1989

GRUM

DRILL LOGS

89-G-01
to
89-G-21

015034

89-G-01

CURRAGH RESOURCES INC.

Page 1 of ____

DIAMOND DRILL CORE LOG

Date: _____

Hole Number: 89G-01

Reference Fabric Orientation Diagram:

Project: Grum 1989 Fill-In

Location: _____

Claim: _____

UTM ~~Terr.~~ Plane Co-ords.: 6,904,657.961 N 6,000.24 N

592,529.452 E 2,639.22 E

Grid Co-ords: 61+00W / 1+00 N

Elevation: 1272.271

All symmetry determinations looking

Total Depth: 655 feet 199.6 m _____ with _____ dipping

Inclination: -90° vertical _____ with dip azimuth _____.

Purpose: Test facies transition of upper horizon in Main Zone

Reason hole Terminated: Drilled through ore

Logged by: C.V. Reed

Date(s) Logged: June 26-29, 1989

Drilling Contractor: Arctic

	Size	CORE From	To
	NW	0	154
	NQ	154	655

Collar Cased and Capped: No

Hole Cemented: No

Steel down Hole: No

Assay Lab: _____

Certificate No's: _____

Started: June 21/89 Completed: June 24/89

Bedrock at 148'

CURRAGH RESOURCES INC.

Diamond Drill Core Log

DDH 89G-01 (2–8)

Date: _____ Logged By: _____

Code	Drillhole	Elevation	Northing	Easting	Units (feet/metres)	R.F.E.	
1	2–8	10–16	17–24	25–32	34–39	41–42	
T	89G-01						

Code	Drillhole	Depth	Zenith Angle	True Azimuth	Comments
1	2–8	10–14	22–26	28–32	34–56
R	89G-01	0 0	-90.0	0.0	AT COLLAR
R	89G-01	342.5 (104.4)	-88.0	146.0 (193.8)	SPERRY-SUN
R	89G-01	492.5 (150.1)	-87.0	129.0 (176.8)	SPERRY-SUN
R	89G-01	642.5 (195.8)	-87.0	071.0 (112.8)	SPERRY-SUN
R					
R					
R					
R					
R					
R					
R					
R					
R					
R					
R					
R					
R					
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R					
R					
R					
R					
R					

Code	Drillhole	Comments, Errant Remarks, Snivellings and / or Lewd Suggestions
1	2–8	10–56

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CURRAGH RESOURCES INC.
Lithologic Log

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Date: June 26/89 Logged By: CUR

Code	From	To	Recov.	No.	Unit	Description
1	10 14	16 20	22 24	26 28	30 34	35
	0	154 0		01	#	TRICONED - NO RECOVERY
		46.9				
	154 0	155 3		02	#	Redrilled 10AB boulder fragments. Largest fragment 1" ϕ
	46.9	47.3				0.4' rec'd
	155 3	194 1		03	5B62	
	47.3	59.1				Mod soft, CS2 thinly laminated, medium grey → locally dark grey,
						noncalcareous, moderately carbonaceous phyllite. S2 surfaces dominately
						medium to dark steely grey, slightly mark fingers. Contains abundant
						thin microlithons defining S1 + S2. No obvious fold hinges
						or faults. Local thin steep fractures infilled with w̄ qtz ±
						calcite. Fractures contain local traces of Po + P1 in small
						irregular fine agglomerates generally < 0.5 cm ϕ
						TOI → 157.0' v̄ broken, 1.6' rec'd
						157.0 → 167.0' rubble, 2.4' rec'd
						167.0 → 174.5' mod broken along S2, 5.1' rec'd.
						174.5 → 178.2 v̄ broken along steep fractures 3.7' rec'd.
						178.2 → 188.5 mod broken along S2. 7.5' rec'd
						188.5 → EOI s̄ broken, recry good.
	194 1	213 3		04	5A*	±1 ±9
	59.1	65				Dark grey to black, mod soft to locally hard, CS2
						laminated, locally siliceous, locally dolomitic?, carbonaceous phyllite
						Contains abundant thin fine light grey microlithons defined
						by fine qtz + dol ± fine diss sph ∓ traces of fine py.
						Unit appears to be locally transitional to 4A, but good

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CURRAGH RESOURCES INC.
Lithologic Log

Date: June 26/89 Logged By: CVR

Code	From	To	Recov.	No.	Unit	Description
1	10 14	16 20	22 24	26 28	30 34	35
						subvitric ribbon banding is absent. S_2 surfaces dark grey → black. Contains local minor thin steep fractures infilled w/ qtz + calcite. Fractures locally porous due to weathering of carbonate. Top 2' of unit contains several highly fractured, foliaform coarse recrystallized qtz veins ranging up to 3" thick. No major faults.
						Core is mod broken along local steep fractures
						Recov is good.
						Top contact sharp, // to S_2, marked by increase in carbon content
						Bottom contact gradational over few inches → marked by decrease
						in well developed light grey, fine grained, qtz + dol siltstone
						laminae. Siltstone laminae range from < 2mm to 2 cm thick
						and define S_1 & S_2 Core is locally rusty due to weathering of
						carbonate in fractures.
	211.3 3	214.3 9		1015	15A/*	± 9 minor ± 1 minor
	65.0	74.3				Similar to higher unit, qtz + dol siltstone laminae less
						abundant, only local minor fine P_y within qtz rich laminae.
						Unit $(S_2$ foliated, dark grey → black, S_2 surfaces medium
						grey → black & only slightly mark fingers Top contact marked
						by slight softening of rock + 1' incipient fracture interval
						At 214.1 one thin 1/2 cm thick // S_2 band containing
						fine red-brown sph. Phase two Roll hinge marked by
						thin white qtz rich bands at 216.2
						TOJ → 214.6 rubble due to fracturing, 1.4' rec'd.
						214.6 → EOI mod broken along S_2 & local thin fractures,
						recov good.

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CURRAGH RESOURCES INC.
Lithologic Log

Date: June 26/89 Logged By: CVR

Code	From	To	Recov.	No.	Unit	Description
1	10 14	16 20	22 24	26 28	30 34	35
	1214 13 9	1214 94		1016	15A11	96 → [4A0]
	74.3	76.1				Mod hard to hard, dark grey → black noncalcareous, siliceous, carbonaceous, chloritic transitional to qtzite. Contains abundant thin light grey qtz + sulphide bands approaching a ribbon banded texture. Bands are dominately < 1/2 cm thick + define S_1 + S_2. Bands show local displacement along pressure solution laminae. Sulphide is dominately fine diss py and local minor sph. Overall sulphide content < 2%. S_2 surfaces carbon black + marks fingers. Contains local very thin steep fractures infilled w qtz + calcite + dol.
						No faults - zone mod broken along S_2. Recov good.
	1214 94	1251 86		1017	14A14	
	76.1	78.8				V hard, dark grey → black, ribbon banded carbonaceous qtzite. Ribbon banding ranges on a scale of 1mm to 3 cm thick and aligned // to S_1 and S_2. Bands contain either fine diss red-brown sph + minor fine py in qtz. Locally py is more abundant however sph rich bands are more abundant. Overall Banding defines several phase 2 fold closures - appears to be an M region. Contains local thin micaceous laminations defining S_1 + S_2.
						251.4 → 253.1 incipient gouge + brA zone. 2 cm thick gouge @ 253.1 // to S_2.
						Overall grade 8-10% Pb+Zn. (Almost all Zn).
						TOT → 251.4 slightly broken, recov good.
						251.4 → 253.1 mod broken along fractures.
						253.1 → EOT slightly broken, recov good.

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CURRAGH RESOURCES INC.
Lithologic Log

Date: June 26/89 Logged By: CUR

Code	From	To	Recov.	No.	Unit	Description
1	10 14	16 20	22 24	26 28	30 34	35
	121518 6	1216R 5		1018	15A1116	± 9 minor → [4A0]
	79.8	80.0				Black, siliceous, noncalcareous, CSz laminated, carbonaceous phyllite
						Qtz - sulphide ribbon banding present in higher 4A is gone. Unit
						is softer w increase in thin micaceous laminations. Qtz rich
						bands are generally thin, < 0.5 cm and define S_1 + S_2
						S_2 surfaces black + mark fingers. Bottom 1' of unit
						contains abundant thin fractures infilled w qtz + calcite. Fractures are
						steep - associated w fault zone beneath it
						Core mod broken, 3.4' rec'd
	1216R 5	1216B 6		1019	15A	Gouge ± brA
	80	80.3				Soft, black, carbonaceous phyllitic gouge. Top contact lost
						in rubble, bottom contact // to S_2. Contains steep internal
						fractures < 20° to core axis. Gouge contains local small assimilated
						of fine Py (< 1/2 cm ø)
						1.1' of gouge recovered.
	1216B 6	1217R 7		1110	15A16	± 1 ± 9 minor
	80.3	85.3				Mod - soft to locally hard, dark grey to black, locally
						siliceous, noncalcareous, carbonaceous phyllite, SiO_2 increases moving
						down hole. Qtz contained dominately in thin fine light
						grey bands ranging up to 2 cm thick and gradually are
						more abundant moving down the interval. Contains local minor fine
						diss Py within qtz rich bands. S_2 surfaces are dark grey →
						black
						Core highly fractured w incipient breccia TOI → 268.7.

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CURRAGH RESOURCES INC.
Lithologic Log

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Date: June 26/89 Logged By: CVR

Code	From	To	Recov.	No.	Unit	Description
1	10 14	16 20	22 24	26 28	30 34	35
						5.3 ft rec'd
						268.7 → 269.1 carbonaceous phyllite gouge, gouge contact 20° to
						core axis 0.4' rec'd No orientation possible.
						269.1 → 274.5 v̄ broken along steep fractures 2.4' rec'd.
						274.5 → EOI s̄ broken, recy good.
	2719 7	2860		11	4A10	±7 minor (4C0 ±7 minor) (5C4*) 85:10:5
	85.3	87.2				TOI → 284.4 mod-hard → hard, blck locally CS2 foliated
						ribbon banded, carbonaceous qtzite, S2 surfaces
						carbon-blck. & strongly marks finger, ribbon banding
						def'n by fine grey qtz, lesser fine Py ± diss sph (also minor Po)
						∓ traces of Gal, Banding def'ns S_1 & S_2 & ranges on
						a scale up to 1cm thickness, Contains locally abundant
						thin micaceous fltns, carbon is conc. along these fltns.,
						Qtz S= banding represents 70% of Rx volume. Py content
						= 12-15%, Po = 3-5%, Pb + Zn = 2-4%.
						284.4 → 285 Moderately soft, thinly laminated, pale olive green, dolo-
						-mitic?, ankeritic? Musc, chlorite phyllite, S_2 surfaces
						are mottled dull olive green & grey, Contains local thin x-cutting
						fractures infilled w̄ qtz & Py Unit slightly reacts w̄ 20% HCl
						when powdered. Bottom & Top contacts are sharp, ∥ to S_2 The unit is
						slightly altered
						285 → EOI Very hard, poorly banded, light grey, barren, slightly
						magnetic, Pyritic - Qtzite, Banding defn'd by pyrite, minor
						Po & ranges in scale up to 2cm thick. S= banding defn's S_2.
						Local micaceous fltn ∥ to S_2 also minor pale green chlorite

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CURRAGH RESOURCES INC.
Lithologic Log

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Date: June 27/89 Logged By:

Code	From	To	Recov.	No.	Unit	Description
1	10 14	16 20	22 24	26 28	30 34	35
						Py content = 15% ; Core is slightly broken & recovery is good
	2816 0	2817 5		1 2	5C1*	±4 ± Bxa Pale olive green, striped, laminated, PS_2 foliated, chloritic
	87.2	87.6				-phyllite. bottom contact sharp ∥ to S_2. Bottom
						contact marked by 2cm thick gouge. S_2 surfaces are
						a medium green. Striping def'n by chlorite & tan ankerite?
						& range up to 2mm thick The top 6 inches of the unit
						appears to be brecciated. Top contact w̄ 4C is sharp along
						fracture which trends 10° to core axis Bottom 4 inches altered to
						cream-tan color. Core is slightly broken. Bottom 1 inch of unit
						is rubble-gouge. Core recovery is good.
	2817 5	2914 7		1 3	4G0	± 1 minor
	87.6	89.8				From moderately hard to hard. PS_2 Py banded massive 5 = 1
						sulfate. Banding ranges on a scale of 1mm - 2cm, defines
						the S_2, consists of dominant fine Py << Sph & locally contains
						diss- qtz. Barite content approx 40%, Py content approx 50%
						Pb + Zn ranges from 4-8%.
						286 - 288.3 Slightly broken along steep fracture.
						288.3 - 291.5 Very broken along steep fracture
						291.5 - EOI Slightly broken. Core recovery is good for entire
						interval.
	2947	3012		1 4	5C4*	(4D0 Bxa) 90:10
	89.8	91.8				Dominant unit is moderately soft, pale olive
						green & tan striped. chloritic, ankeritic-phyllite.
						Striping defined by olive green chlorite, defines S_1 & S_2

DDH 89G-01 (2–8)

CURRAGH RESOURCES INC.
Lithologic Log

Date: June 27/89 Logged By:

Code	From	To	Recov.	No.	Unit	Description
1	10–14	16–20	22–24	26–28	30–34	35
						Unit contains 3 or 4 phase II fold closures. Top contact marked by 3cm thick green phyllite gouge. Interbanded w̄ this unit from 297.3 to 298.5 is a very hard S= banded qtzite, S= consists of dominant Py << Sph & Gal. Banding defines S_2. S= content is 50-60%. Qtzite broken due to tight isoclinal folding. Contacts w̄ metabasite are irregular & are likely fracture contacts. Estimated Pb+Zn 8-10%, dominantly Sph. Metabasite slightly altered to tannish-cream color. TOI → 295 is very broken w̄ incipient phyllite gouge. from 295 → EOI core is moderately broken. Bottom 3 inches of unit is incipiently Brecciated. Core recovery is good.
	3012	3017.5		15	460	(SC4x) trace
	91.8	93.7				Dominant unit appear to be same as unit 13. Barite content is slightly less, approx 30%, Py is approx 50%, Pb-Zn is 6-8%. Banding ranges on a scale up to 2cm. It defines S_2 & consists of dominant Py & lesser honey colored Sph. It is hard to very hard & appears to contain interstial qtz to the barite. Qtz content 10-15%. Centered at 304.5 is a highly broken, soft, altered, metabasite band. The band x-cuts S_2 & is approx 2 inches thick? The band contains specks of "fuchsite." 46 contains local steep fractures which are x-cutting S_2 infilled w̄ dol. Bottom contact is a ductile flow breccia against 4A and an irregular

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CURRAGH RESOURCES INC.
Lithologic Log

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Date: June 27/89 Logged By:

Code	From	To	Recov.	No.	Unit	Description
1	10 14	16 20	22 24	26 28	30 34	35
						2 inch diameter clast of lower 4A. This clast has broken off into the massive S=. Core is slightly broken except for metabasite band which is rubble. Recovery is good.
	3012 5	3112 2		16	4A10	BXA.
	93.7	95.2				Highly fractured, black carbonaceous qtzite breccia. Abundant thin fractures infilled w̄ qtz & lesser thin Py & locally w̄ dol. Fractures generally less than 2mm thick. S= banding poorly developed. The breccia may be due to tight isoclinal folding. Indv. 4A clasts range in size up to 5 inches. Appears to be some rotation of clasts. S= content overall. 10%, dominantly Py w̄ traces of sph. Bottom contact is sharp 29° to core axis, 180° from S_2. Overall grade is less than 1%. Core moderately broken along fractures. 4 inch rubble zone at end of run (309 ft.) Recovery is good.
	3112 2	3115 6		17	4A10	
	95.2	96.2				Very hard, locally C_2 foliated. Dk grey to black carbonaceous qtzite. Ribbon banding is poorly developed & thin & defines S_2 & S_1. S_2 surfaces are carbon black. Bands are generally less than 1cm thick & average 2mm. They consist of dominant Py, much lesser sph & interstial fine grey qtz. Qtz S= bands constitute 10% of volume of rock. Local lithon texture defined by fine grey qtz laminations. Estimate of Py = 8%, Pb+Zn = 2%

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2 8

CURRAGH RESOURCES INC.
Lithologic Log

Date: June 27/89 Logged By: _____

Code	From	To	Recov.	No.	Unit	Description
1	10 14	16 20	22 24	26 28	30 34	35
						dominantly sph. Core is moderately broken along S_2. Recovery is good.
	31.5 6	32.5 5		1/18	151A111*	(5C4*) 4CO 75:25:5
	96.2	99.2				Highly mixed unit consisting of dominant dk grey to black thinly banded to moderately soft carbonaceous phyllite. Unit is locally CS_2 foliated. S_2 surfaces are dull dk grey, contains local bands ranging up to 1cm, consisting of qtz + dol. Bands are aligned // to S_2. Intermixed in this unit are 4 thin bands of soft pale olive green & tan striped, slightly altered metabasite. Contacts are // to S_2 The metabasite bands range on a scale from 2 to 20 cm's. The bands are altered to a buff-tan rich green The contacts in carbonaceous phyllite are marked by decreased carbon over intervals up to 10cm.
						TOI → 316.3 is a very hard, poorly banded, pyritic-qtzite, contacts are // to S_2. Py content ≈ 50% Contains minor reddish-brown sph infilling thin fractures. Estimated Pb+Zn ≈ 2% dominantly sph.
						TOI → 321.2 Core is slightly broken along S_2.
						321.2 → EOI " " moderately " " steep x-cutting fractures & S_2. Fractures range up to 1cm & are infilled in dolomitic gouge. Core recovery is good.

DDH B.G.G.-01
2 8

CURRAGH RESOURCES INC.
Lithologic Log

Date: June 22/89 Logged By: _____

Code	From	To	Recov.	No.	Unit	Description
1	10 14	16 20	22 24	26 28	30 34	35
	131215 5	131219 3		119	14A10	
	99.2	100.4				Dk grey to blk. qtz 5= ribbon banded carbonaceous qtzite. S_2 surfaces are carbon blk & mark fingers. Unit is same as 17 Qtz 5= bands are 'poorly developed' thin ranging from 1mm to ½ cm thick. Dominant 5= is Py. local traces of sph Py content is 15%, Pb+Zn is 1-2% locally thin fine grey qtz lithons define S_1. Core is moderately broken. Recovery is good
	131219 3	131312 4		120	14C10	-micaceous (5C4*) 75:25
	100.4	101.3				Dominant unit is a light grey, highly fractured, very hard Pyritic qtzite. Py occurs dominantly in thin fractures. Contains local thin micaceous laminations defining S_2. Py content = 35% Reddish-brown sph occurs in trace. Thin fractures. Interbanded in this unit are 4 thin intervals of moderately soft. musc-chlorite-dol-phyllite. Unit is altered to a tan-green. Contacts in qtzite are sharp & // to S_2. Intervals range from 1cm to 8cm thick. S_2 surfaces are a dull olive green. Core is moderately broken. Recovery is good
	131312 4	131417 9		121	15A10#	→ [582#7 (1009) minor
	101.3	106.0				Dk grey to blk, moderately soft. Dominantly FS_2 foliated. locally CS_2 foliated. Carbonaceous musc-phyllite. Contains thin qtz-calcite siltstone bands & laminae defining S_2 & locally S_1. Ranging on scale from <1mm to

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CURRAGH RESOURCES INC.
Lithologic Log

Date: June 27/89 Logged By:

Code	From	To	Recov.	No.	Unit	Description
1	10 14	16 20	22 24	26 28	30 34	35
						1cm thick. Top & bottom foot of interval clot replaces calcite in these bands. Sz surfaces are shiny dk grey. Locally they are black. Overall this SA appears lighter than SA log at top of the hole. It appears to be transitional to a SB2 $. It contains local steep cutting, ragged fractures. Infilled w dominant white calcite & qtz. " are generally less than 20° to core axis & range in ≈ 3mm thickness
						At 333.2 → 334.5 There is a white pegmatitic qtz vein., margins are brecciated. Fractures are infilled w Py. Core is slightly broken, Recovery is good.
	131417 9	131611		1218	14A10	(SA196) (WCO) micaceous
	106.0	119.1				TOT - 348.6 Very hard, Py banded, light grey & brassy yellow striped qtzite. 5" bands consist of fine Py in lesser interstal fine grey qtz. Py appears to have been re-mobilized into later thin fractures. Bands are generally less than 1 cm & constitutes ≈ 30% of rock volume. Contains local traces Cpy with local fractures. Paper thin micaceous laminations occur locally & define Sz.
						348.6 - 352.1 Moderately soft to locally hard, black, locally siliceous. Bio-calcareous - carbonaceous phyllite. Has local thin qtz - siltstone laminae which define Sz. Qtz rich bands also

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CURRAGH RESOURCES INC.
Lithologic Log

Date: June 27/89 Logged By:

Code	From	To	Recov.	No.	Unit	Description
1	10 14	16 20	22 24	26 28	30 34	35
						occur in bands occuring 1cm thick & define S_2. S_2 surfaces are dull carbon blk. Py occurs in traces (3) in qtz rich bands & also forms fine irregular aglomerates in fractures. $S^=$ content is 3-4%. Dominantly Py. Sph occurs in traces locally (3) in qtz rich bands.
						352.1 - 361.1 Mixed unit, dominant unit is a very hard qtz - $S^=$ ribbon banded carbonaceous qtzite. Qtz $S^=$ banding defines S_1 and is locally warped around phase 2 fold hinge. There appears to be 2 hinges in top 2 feet. S_2 surfaces are shiny blk & mark fingers. Unit is barren of base metal. Py is about 25% of rock. Inter-banded in the bottom 5 feet are 2 intervals of moderately soft & locally hard carbonaceous phyllite, same unit as the higher 5A. Contacts (3) 4A are sharp & // to S_2. The carbonaceous phyllite and qtzite appears to be repeating down the hole due to phase 2 fold closures.
						701 - 348.9 (0'6") is intact.
						348.9 - 352.9 (0'6") is moderately broken along S_2. Appears to be a foot of core loss in this interval.
						352.9 - 360.5 Slightly broken, recovery is good
						360.5 - 361.1 moderately " along S_2.
	1316 11 1	1317 10 3		12 13	15 A 16	± 1 ± 9 ± Bxa (4L12 4 trace)
	1101 1	1121 9				
						Dominant unit is a dominantly soft, non-calcareous

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CURRAGH RESOURCES INC.
Lithologic Log

Date: June 22/89 Logged By: _____

Code	From	To	Recov.	No.	Unit	Description
1	10 14	16 20	22 24	26 28	30 34	35
						dk grey to black carbonaceous phyllite. S_2 surfaces are dk shiny grey. Dominantly PS_2 foliated. Contains abundant thin qtz rich bands aligned parallel to S_2. Qtz bands contain local minor diss' Py & minor Po. Py & lesser Po also infill fractures. Interbanded w TDI to 361.9 364.9 - 367.3 is light grey altered musc - chlorite phyllite S_2 surfaces are a mottled light grey - green & have talcose coatings. Margins of 4L are ll to S_2 contains minor local stringers of Py & traces of Sph & Gal. Core is very broken along steep fractures. Appears to be several phase 2 fold hinges repeating 4L in this unit. Core recovery is good. @ 362.5 there is a highly fractured 3 inch qtz vein. Bottom 4 feet of the unit is highly fractured & brecciated. Breccia due to folding & not faulting.
	131710 3	131723		1214	151C14	*
	112.9	113.5				Homogeneous pale tarnish green, dolomitic?, ankeritic?, chloritic phyllite. Local specks of bright green 'fuchsite' Thin chloritic laminations are ll to S_1 which is trending straight up & down the core axis. Contact w higher 5A appears ll to S_1. Contact w lower 4A is ll to S_2. Again the true thickness of this metabasite is much thinner. This band of meta basite is trending sub-parallel to the core axis. Core is moderately broken & recovery is good.

DDH 89G-01

CURRAGH RESOURCES INC.
Lithologic Log

Date: June 27/89 Logged By: CUK

Code	From	To	Recov.	No.	Unit	Description
1	10 14	16 20	22 24	26 28	30 34	35
	3723	3753		25	4A0	
	113.5	114.4				V̄ hard, dark grey → black, barren, carbonaceous qtzite. S_2 surfaces carbon black - mark fingers. Sulphide banding is poorly developed. Banding is thin, generally < 2m & defined by qtz + diss fine py. No visible gal. Sph occurs in traces within qtz py bands. Unit is CS_2 foliated. Defined by abundant black paper thin micaceous laminations + qtz py banding. Est % Py for interval is 8 - 10%. Banding & laminations displaced by local steep thin fractures. Unit is very hard, contact w̄ higher metabasite + lower 4L is sharp ∥ to S_2.
						Est % Pb + Zn ≈ 1-2%
						Core is moderately broken along fractures. Recov is good.
						Continued Next Page.

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CURRAGH RESOURCES INC.
Lithologic Log

Date: June 27/89 Logged By: CR

Code	From	To	Recov.	No.	Unit	Description
1	10 14	16 20	22 24	26 28	30 34	35
	317.5 3	318.4 5		1216	4L1/1314	(4A0) 80:20
	114.3	117.2				Dominant unit is moderately soft to locally hard, non calcareous, moderately siliceous, musc - chlorite phyllite. Has abundant thin stringers of fine Py & lesser Cal & sph. S_2 surfaces are dull mottled pale green & light grey. S^0 content is approx 4-5%. Interbanded in this unit are 3 intervals of very hard carbonaceous qtzite. S^0 bands in qtzite are poorly developed and generally define S_2. Bands of 4A range from 8cm to 20cm thick & occur in the bottom 5 feet of the interval. Margins of 4A // to S_2.
						TOI - 379.0 core is moderately broken. Recovery good.
						379 - 381.9 " " very " " "
						381.9 - EOI " " moderately " " "
	318.4 5	319.6 0		1217	4A10	(5A61 minor ± Bra) 85:15
	117.2	120.7				
						TOI - 386.7 very hard & barren, carbonaceous qtzite. Qtz - S^0 banding is poorly developed where present ranges up to ≈ 1cm in thickness. Dominant S^0 is Py, Py content is approx 8-10%. No visible Sph & Gal
						386.7 - 392.4 highly broken, fractured, moderately soft, locally hard, locally siliceous carbonaceous phyllite.
						390 - 392.0 Unit is incipiently brecciated & gouged.

DDH 89-G-01
2 8

CURRAGH RESOURCES INC.
Lithologic Log

Date: June 27/89 Logged By: CVR

Code	From	To	Recov.	No.	Unit	Description
1	10 14	16 20	22 24	26 28	30 34	35
						TOI - 388.5 - Core is very broken, recovery is good.
						388.5 - 392.1 - " " rubble & gouge. 2 feet recovered.
						392.1 - EOI Core is very broken along steep fractures ∥ S_2. Recovery is quite good
						392.0 - EOI ~ hand, dark grey → black, barren, carbonaceous qtzite, same as higher 4A in interval, ribbon banding is poorly developed. Py content = 10-12% lower contact w 4L is lost in rubble.
	131916 0	141011 0		1218	141410	± 34. minor.
	120.7	122.2				Unit is a whitish grey, BS_2 laminated, altered. musc. > chlorite phyllite. local thin stringers of dominant fine Py & traces of Gal + Sph local incipient gouge from 398.1 → 400.5 S= content ranges from 3-5%. Core is moderately broken except for gouge intervals at 398.7 → 399.3 & 400.4 → 400.6 Core recovery is good.
	141011 0	141015 9		1219	151A1119	(407 ± 3 minor)
	122.2	123.7				Dominant unit is moderately soft, locally hard, moderately siliceous, carbonaceous - phyllite. It's highly fractured & broken along steep fractures ∥ S_2. Contains local minor Py assoc w thin qtz rich bands. Unit is approaching a 4A but qtz S= banding is locally & poorly developed.
						403.3 - 404.5 incipient gouge present along fractures.

DDH 89-6-01
2 8

CURRAGH RESOURCES INC.
Lithologic Log

Date: June 27/89 Logged By: _____

Code	From	To	Recov.	No.	Unit	Description
1	10 14	16 20	22 24	26 28	30 34	35
						(not a significant fault.)
						401.3 → 403.0 Highly fractured, v. hard, locally micaceous. Po > Py qtzite. Po occurs as ductile flow bands up to 5cm thick flowing around larger micaceous qtzose intervals. These intervals may be clasts in Po, also "floating" in Po are subrounded white clasts of dol & calcite. Medium green chlorite also infills thin fractures. Reddish brown sph occurs diss- in qtzite bands centered at 402.7. Bands range from ½ - 3cm thick & define S_2. Overall grade of the qtzite unit is ~ 2-3% Pb-Zn. Po is approx 15-20% Py ~ 10%.
						707 → 401.8 core is rubble & 6 inches core loss. Core appears to be broken on a steep fracture.
						401.8 → 403.0 core is moderately broken along fractures. Recovery is good.
						403.0 → 405.9 core is V broken, 6 inch core loss.
	141015 9	141017 5		310	141010	
	123.7	124.2				This is a homogeneous, V hard, Pyritic qtzite. Banding is poorly developed, generally appears to trend ⊥ to core axis, defined by fine Py & lesser red sph. Py is 40%, sph is 5-6%. The top 3 inches of interval contains abundant micaceous ftns ⊥ to S_2. Upper contact is ⊥ to S_2. Lower contact is lost in the rubble. Core is moderately broken &

DDH 89G-01 (2 – 8)

CURRAGH RESOURCES INC.
Lithologic Log

Date: June 27/89 Logged By:

Code	From	To	Recov.	No.	Unit	Description
1	10 – 14	16 – 20	22 – 24	26 – 28	30 – 34	35
						recovery is good.
	14017 5	14319 7		31	5B01#	± 2 minor
	134.2	134.0				Medium to light grey, dominantly PS_2 foliated, locally to moderately carbonaceous phyllite. Contains abundant thin qtz dol bands ranging fr 1mm to 1cm define S_2 w̄ in these bands are thin lithons of qtz & dol which define S_1. S_2 surfaces are a shiny medium grey. Top 2 feet of interval is bleached to a whitish grey. S_2 has talcous coatings. Qtz is also more abundant in this altered interval. Py occurs locally in traces in qtz-dol bands & in late fractures.
						TOI - 408.5 core is v̄ broken along steep fracture. recovery is good.
						408.5 - 437.0 core is slightly broken along S_2.
						437 - EOI " " moderately " " fractures & S_2.
	14319 7	15155		32	5B2	± # ± 9 minor
	134	157.1				Moderately soft, dominatly PS_2 foliated, medium to dk grey, moderately carbonaceous musc phyllite. contains local thin qtz ∓ dol ± calcite siltstone bands & laminae. which define S_2. Microlithons also locally developed in bands, they are def'nd by fine qtz & dol ± calcite Unit contains abundant, thin

DDH 846-01

CURRAGH RESOURCES INC.
Lithologic Log

Date: June 27/89 Logged By: CCK

Code	From	To	Recov.	No.	Unit	Description
1	10 14	16 20	22 24	26 28	30 34	35
						x-cutting fractures infilled by qtz & calcite ± dol. Py & Po occur in traces in these fractures. S_2 surfaces range from shiny medium grey to blk. Unit becomes slightly darker moving down the interval.
						TOI - 447.0 core is moderately broken along S_2 & steep fractures. Minor thin insipient gouge at 444.5.
						447.0 - 452 core is slightly broken.
						452 - 453.7 " " V " local incipient gouge intervals.
						453.7 - 470.1 core is moderately broken.
						470.1 - 471 " " V broken along steep fracture minor incipient gouge along fracture.
						471 - 477.3 core is moderately broken.
						477.3 - 478 gouge & breccia present along steep fracture. Fracture is 38° in same direction as S_2.
						478 - 497.8 core is moderately broken
						497.8 - 504.9 " " V " local & minor incipient gouge on fractures.
						504.9 - EOI core is moderately broken. Recovery for entire interval is good.
	5155	5170		33	4E117	(4C37) BxA 60:40
	1571	157.6				Dominant unit is a homogeneous brass, yellow + bronze moderately magnetic, moderately siliceous massive to semi massive pyritic $S^=$. Fine grey qtz occurs interstitial to $S^=$.

DDH 89G-01 (2–8)

CURRAGH RESOURCES INC.
Lithologic Log

Date: June 28/89 Logged By: CUR

Code	From	To	Recov.	No.	Unit	Description
1	10–14	16–20	22–24	26–28	30–34	35
						Contains minor red-brown sph. in thin bands near TOI.
						At 506.2 lower contact with qtzite BzA highly fractured +
						brecciated - due to ductility contrasts. S= have been remobilized
						from massive S= into thin fractures within qtzite to
						EOI. S= content ≈ 50% in qtzite - no grade. Breccia related
						to ductility contrast and not to any significant faulting.
						Estimated grade of massive S= ≈ 2-3%.
						Core mod broken along steep fractures - recy is good.
	5117 0	5211 8		3 4	4L1 3 4	± $ minor
	157.6	159.0				Mod soft, locally hard, light grey-green, altered musc +
						chl phyllite contains abundant thin late stringers and
						bands of qtz ± py ± po minor. Contains local development
						of thin pale green chl laminations ∥ to S2. Pol
						occurs locally in small tan "clasts" up to 1cm ϕ. S2
						is steep in this unit - approx. 32° to core axis. S= also
						occur remobilized into thin steep fractures. Est % Qtz ≈ 20%
						Est Pb+Zn 2-3% Est % Py ≈ 8% Est Po occurs in
						traces. S2 surfaces are a mottled green-grey. Core
						tends to fracture along thin chloritic laminations.
						Core moderately broken, recy good.
	5211 8	5217 2		3 5	4K 0	"Micaceous" ± BzA ± $ minor ± 9 trace
	159.0	160.7				Highly fractured, mod hard, poorly banded, moderately pyritic,
						qtzite. Unit appears texturally similar to #33 except
						fracturing more intense, SiO2 + S= content is also

DDH 896-01 (2–8)

CURRAGH RESOURCES INC.
Lithologic Log

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Date: Jun 28/89 Logged By: WR

Code	From	To	Recov.	No.	Unit	Description
1	10–14	16–20	22–24	26–28	30–34	35
						increased. Sulphides have been extensively remobilized into steep fine fracture system. Chl also developed in some fractures. S_2 is steep -20-30° to core axis. Contains local minor highly fractured + irregular dol. clasts ranging up to 3 cm ϕ. Est % Py 10-15%. Est Pb+Zn 1-2%.
						TOI → 524.7 slightly broken, very good.
						524.7 → 525.1 incipient gouge + bxA - not a significant fault, very good.
						525.1 → EOI slightly broken, very good.
	5272	5559		36	4C37	± "micaceous laminations" (4E1 ± BxA)
	160.7	169.4				Very hard, light grey & brassy yellow striped, pyritic quartzite. Unit is well banded. Banding defines S_1 + S_2 and consists of dominate Py, lesser Po, traces of Sph + Gal w̄ ≈ 20% interstitial fine grey qtz. Po content decreases moving down the interval. Paper thin micaceous laminations occur locally in intervals up to 30 cm thick. Est % Py ≈ 30-40%.
						545.6 - 549.9 unit is siliceous semi-massive pyritic S=. No grade. Contains local brecciated zones up to 1' thick of semi-rotated angular py S= clasts ranging up to 5 cm ϕ. Clasts have been cemented w̄ calcite in fractures. Locally calcite weathered out to form vugs. Breccia is not related to a significant fault.
						Unit contains several phase 2 fold hinges, particularly in top 15' of unit. This unit does not appear to be the same as any lithology higher in the hole and is therefore likely a second horizon.

DDH 89G-01 (2–8)

CURRAGH RESOURCES INC.
Lithologic Log

Date: June 28/89 Logged By: CUR

Code	From	To	Recov.	No.	Unit	Description
1	10–14	16–20	22–24	26–28	30–34	35
						Core is intact. Recy is excellent.
	5559	5825		37	4C0	± 7 minor "Micaceous" ± 9 trace
	169.4	177.5				$\bar{v}$ hard to locally in hard, light grey, moderately pyritic qtzite. Unit similar to higher 4C3 (#35) except sulphide banding less abundant, micaceous foliations more abundant and unit contains less qtz overall. Banding ranges on a scale of 2mm to 8cm and is defined by dominate fine Py, minor Po, traces of Sph + Gal, traces of Cpy in fractures. Banding aligned ∥ to S_1 + S_2. Phase 2 fold hinges occur periodically throughout interval – M region? Sulphide have been extensively remobilized into steep fine fractures. Est % Py ranges locally from 5–20% depending on density of S⁻ bands. Est Pb + Zn 1–2%. Locally fine grey qtz laminations define microlithons.
						TOI – 572.0 core intact recy good
						572.0 – 581.3 $\bar{v}$ broken along steep fractures
						581.3 – 581.6 incipient gouge – not a significant fault
						581.6 – EOI slightly broken.
						Recy for entire interval is good.
	5825	5860		38	4L3 6	± BxA (4C3 BXA) 80:20
	177.5	178.6				Dominate unit is mod⁻ soft pale buff light grey – green altered muscovite phyllite. Top 1.5' of unit is more "bleached" than remaining phyllite. Within this interval are several incipiently gouged fractures approx 30°

DDH 89G-01

CURRAGH RESOURCES INC.
Lithologic Log

Date: Jun 28/89 Logged By: [illegible]

Code	From	To	Recov.	No.	Unit	Description
1	10 14	16 20	22 24	26 28	30 34	35
						to core axis. [illegible] are mottled green-grey.
						384.0-384.9 - highly fractured, poorly banded, moderately
						pyritic qtzite. Py has been extensively [illegible] into
						thin fractures. Est % Py ≈ 30-40%. No grade. Contact
						with 4L irregular & ragged. 4C is likely one large
						clast in breccia.
						384.9 → TOI mod⁻ soft, pale light grey - green [illegible]
						laminated, [illegible] phyllite. Unit is nonvolcaneous and
						only slightly altered.
						TOI → 384.9 v̄ broken, recy good
						384.9 → TOI ē broken, recy good.
	5860	5881		39	5A6	GOUGE
	178.6	179.3				Soft, flakey, black phyllite gouge. Top contact lost in rubble.
						Bottom contact 44° to core axis, dipping in same direction as
						S2. 6" of core loss likely at TOI.
						Core is soft flakey gouge.
	5881	5914		40	5A6	
	179.3	180.3				Mod⁻ soft, locally CS2 foliated, dark grey → black, carbonaceous
						phyllite. Local microlithons defined by thin fine grey qtz.
						S2 surfaces are black & mark fingers. Carbon slightly
						bleached out in 6" zone near higher fault.
						Core v̄ broken along steep fractures & S2. Core
						recy is good.

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CURRAGH RESOURCES INC.
Lithologic Log

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Date: June 28/89 Logged By: CWR

Code	From	To	Recov.	No.	Unit	Description
1	10 14	16 20	22 24	26 28	30 34	35
	5914	6060		41	4L0	± 1 minor
	180.3	184.7				Soft, white-grey, highly altered musc phyllite. S2 surfaces are light grey w̄ local white "talcose" coatings. Contains local minor thin stringers & bands of fine py + qtz. Est % Py 3-5%. TOI to 601 contains several thin, incipiently gouged steep fractures. Fractures dip 20° to core axis, steeper than S2 + dip in same direction as S2. Contact w̄ upper 5A is sharp ∥ to S2. Contact w̄ lower 4A is lost in rubble. Dolomite occurs locally in fine cream laminations near TOI. TOI → 592.8 mod broken / 592.8 → 596.5 v̄ broken along S2 + steep fractures. / 596.5 - 598.8 mod broken / 598.8 → 600 v̄ broken / 600 - EOI mod broken, 2" gouge zone centered at 600.8 / Recovery good for entire interval
	6060	6072		42	4A0	Bxa → [4C0] Bxa
	184.7	185.1				Mod hard → hard, highly fractured, barren, locally micaceous carbonaceous qtzite. Sulphides have been remobilized into thin steep fractures. Py is dominate, ≈ 8%. Minor traces of Sph also infill fractures. Top 4" of unit is flakey rubble + gouge. Bottom 3" of unit loses carbon and pyrite content increases. TOI → 606.2 rubble v̄ incipient gouge. Recv O.K. 606.2 → EOI m̄ broken, recv O.K. Difficult to tell whether this unit marks a fault above the massive sulphide horizon beneath it.

DDH 89G-01

CURRAGH RESOURCES INC.
Lithologic Log

Date: June 29/89 Logged By: WR

Code	From	To	Recov.	No.	Unit	Description
1	10 14	16 20	22 24	26 28	30 34	35
	6072	6154		43	4G0	± 4 ± 5 minor ± 8 minor ± porous (5C4X) trace.
	185.1	187.6				Mod⁻ hard, PS2 banded, locally porous, massive barite
						S⁻. Contains local small, subangular cream-tan dolomite
						clasts ranging up to ½ cm ø. Banding is defined
						by ↑ in Py + Gal + Sph. Bands range up to 10 cm
						thick. Bottom 1' of unit porous due to weathering of
						carbonate. Magnetite occurs throughout in tiny black
						specks + streaks. Streaks are elongate ∥ to
						S2. Pb + Zn is variable, ranges from 4-12%. BaSO4
						content ≈ 15%. Contains thin 3" band of mod⁻ soft,
						pale tan-green striped metabasite centered at 216.7.
						Margins of metabasite are ∥ to S2.
						TOI → 609.8 S̄ broken, recy good
						609.8 → 610.8 V̄ broken along steep fracture, recy good
						610.8 → EOI T̄n broken, recy good.
	6154	6200		44	4A0	
	187.6	189.0				Black, V̄ hard, highly fractured, poorly banded carbonaceous
						qtzite. S2 surfaces dark grey → black + mark fingers.
						Where developed, banding defined by fine py + interstitial
						grey qtz. Banding ∥ to S2 ranges up to 2cm thick.
						Late fractures trend approx 10° to core axis. Some Py,
						remobilized into fractures. Unit is barren.
						Core is extremely broken, recy O.K.
						Fractured nature of core due to proximity to
						Deal lake fault.

DDH 89G-01

CURRAGH RESOURCES INC.

Lithologic Log

Date: June 29/89 Logged By: CWR

Code	From	To	Recov.	No.	Unit	Description
1	10 14	16 20	22 24	26 28	30 34	35
	6200	6285		45	4C3	BxA +5 mm (450 BxA) 80:20.
	189	191.6				Mixed brecciated unit of dominately mod hard, highly fractured, barren pyritic qtzite w̄ local bands (probably clasts - difficult to tell because of poor core condition) of highly fractured massive pyritic S². Massive Py intervals are porous - range up to 15 cm thick. Massive S² contains minor concentrations of sph + gal in thin disrupted bands ∥ to S₂.
						Clasts in bxa are subangular, rotated + range up to 8 → 10 cm ⌀. Fractures between clasts infilled w̄ fine qtz ± py. Locally, some clasts contain thin black carbonaceous folia.
						70I → 623.0 rubble due to late fracturing, recry surprisingly good.
						623.0 - 624.1 m̄ broken, recry good
						624.1 → EOI rubble due to intense fracturing.
	6285	6307		46	4A0	Bxa.
	191.6	192.2				V̄ hard, dark - goes to black, highly fractured carbonaceous qtzite bxa. Sulphide banding is poorly developed. Py extensive, remobilized into fractures. Individual qtzite clasts range in size up to 30 cm. Some clasts show rotation. Unit is barren. Fractures are generally "etched" due to weathering of carbonate. Generall trend of fractures 30° to core axis.
						70I - 630.0 core m̄ broken recry good.

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2 8

CURRAGH RESOURCES INC.
Lithologic Log

Date: June 29/89 Logged By: CUR

Code	From	To	Recov.	No.	Unit	Description
1	10 14	16 20	22 24	26 28	30 34	35
						630.0 → EOI w̄ broken along fractures, 1.5' core loss.
						Upper contact w̄ 4E band 33° to core axis along brecciated
						fracture lower contact w̄ 4C BxA is 30° to core axis
						No orientation possible.
	6310 7	6312 9		4 7	4 C 0	BxA ± ⅛ minor.
	192.2	192.9				Highly fractured, w̄ hard, py banded qtzite. Top
						3" of unit contain thin PS2 bands of Py w̄ diss-
						red brown sph. Py + Sph have been remobilized into thin
						fractures. Est % Py ≈ 30-40%. Est % PbZn 2-3%.
						Bottom 6" of unit contains cream streaks of dolomite
						occurring in Bxa matrix. This unit is likely one
						large highly fractured clast "hung up" in the Doal
						lake fault. Contacts w̄ upper + lower units are irregular +
						brecciated.
						Core mod broken, recov good.
	6312 9	6410 1		4 8	5 A	GOUGE (ICD4) GOUGE
	192.9	195.1				DOAL LAKE FAULT. !!!
						TOI - 639.1 Flakely, black, soft, carbonaceous mud
						gouge ± fragments of 5A. 5A fragments are generally
						< 1" ϕ. Top contact of gouge 52° to core axis.
						639.1 - EOI Creamy - white, w̄ soft, flakey, altered
						musc phyllite gouge. Contact w̄ higher 5A gouge is
						sharp, 35° to core axis.
						Core is gouge, recovery is complete.

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CURRAGH RESOURCES INC.
Lithologic Log

Date: June 29/89 Logged By: CUR

Code	From	To	Recov.	No.	Unit	Description
1	10 14	16 20	22 24	26 28	30 34	35
	16410 1	16417 9		1419	IICIDI4	$ ± 9 minor (IHO ± Ø ± BIO)
	1951	1971.5				107 → 646.0 - creamy, buff tan, coarse PS2 laminated, dolomitic, sericitic, ± chlorite (minor) schist. S2 surfaces dull cream - white ± green tinge. Some talcose coatings on S2. Contains abundant small (generally < 2mm Ø) cream-tan dolomite porphs preferentially aligned // to S2 giving the core a "mottled" or "speckled" appearance. Top + bottom 1' of unit contain large (up to 1cm Ø) subrounded fine py agglomerates. Py agglomerates give core a "spotted" appearance within these intervals. Py agglomerates appear similar in size + distribution to dolomite clots occurring in lower relatively unaltered ICD directly below 647.9. Py agglomerates may be alteration products of these dolomite clots. The overall textural similarity to the lower ICD indicates that this unit was likely pelitic in origin.
						646.0 → 702 Pale buff green, thinly PS2 laminated, locally dolomitic, weak soft chlorite schist. Contains locally abundant thin fractures infilled ± qtz + calcite. S2 surfaces are dull olive green. Margins to upper + lower ICD sharp + // to S2. Contains minor local biotite forming along S2 in thin laminations. Contains local less dolomite in thin streaks preferentially // aligned // to S2.

DDH 89G-01

CURRAGH RESOURCES INC.

Lithologic Log

Date: June 29/89 Logged By: CUR

Code	From	To	Recov.	No.	Unit	Description
1	10 14	16 20	22 24	26 28	30 34	35
	6479	6555		50	1CD	
	197.5	199.8				Coarsely PS2 laminated light green, brown, + tan striped, musc + chl + bio schist. Biotite occurs as this pressure solution laminae ∥ to S2 and within subrounded "clots" up to 2 cm ϕ. Chlorite occurs similarly but is less abundant & appears to be retrograded biotite. Core is moderately soft. Unit is noncalcareous. We have entered the footwall of the Make Believe Fault.
						Centered at 649.5 and 652.3 are 2 9" thick foliaform white pegmatitic qtz vein. Upper vein has pale green chl infilling steep fractures. Lower vein fine Py infills local fractures near bottom contact.
						Core slightly broken, recy good.
						EOH

DDH 89-G-01 (2 / 8) CURRAGH RESOURCES INC. Page 1 of 1

Structural Log Date: June 25 Logged By: REZNIK / KERBER

	Code	From	To	Feature	Sym	S_0 Dip Direct.	S_1 Dip Direct.	S_2 Dip Direct	Description
	1	10 14	16 20	22 24	26	28 32	34 38	40 44	
		155.5	182.0	CIS2	S		216 010	74	Micaceous fltn - comp. banding
		187	192.5	CS2	S		35 262	63	" " "
		63.7	209.5	CS2	S		192 43	74	" " "
		70.7	232	PS2	-		12 259	71	" " "
		74.4	244	PS2	S		193 01	77	" " "
Box 6				PS2	S		150 100	410	" " "
7				PS2	S		318 311 8	515	chlorite fltns in metabasite
8				PS2	S		170 100	44	micaceous fltn - comp. banding
9				PS2	Z		191 810	714	" " " "
10		103.0	318	PS2	S		150 100	515	" " " "
11		109.4	359	PS2	Z		221 80	617	" " " "
12		114.6	376	PS2	S		210 314 8	63	" " " "
13		118.3	388	PS2				44	" " " "
14		122.8	403	PS2	S		31 010 0	516	" " " "
15		130.5	428	PS2	S		218 010 0	416	" " " "
16		137.2	450	PS2	S		17 339	44	" " " "
17		143.5	484	PS2	S		29 010 0	516	" " " "
18		150.6	494	PS2	Z		216 3129	52	" " " "
19		156.7	514	PS2	S		T T	54	going fr micaceous fltns to chlorite fltns.
20		164.6	540	PS2				54	chlorite fltns
21		169.8	557	CS2			119 251 4	710	chlorite fltns // to S_2
22		177.1	581	PS2			T T	79	pyrite banding // to S_2
23		180.4	592.5	PS2			T T	816	
24		184.1	610	PS2			T T	82	chlorite fltns // to S_2
25		191.7	628	PS2			T T	47	pyrite banding // to S_2
26		196.1	643.5	PS2			413 336	710	chlorite fltns // to S_2
		199.3	654	PS2				518	" " " "
		(m)							

C.R.I. 1987 E-4

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PROJECT _____ DRILLHOLE NO. DDH-G-01 COORDINATES: N _____ DATE _____ 19__

LOCATION _____ HOLE SIZE _____ E _____ PAGE __ of __

LOGGER _____ INCLINATION _____ ELEVATION _____

PITEAU & ASSOCIATES
GEOTECHNICAL CONSULTANTS
VANCOUVER CALGARY

GEOTECHNICAL CORE LOG

DEPTH (TO)	LENGTH OF RUN	CORE RECOVERY		RQD		HARDNESS	DEGREE OF BREAKAGE		DEGREE OF WEATHERING	ROCK TYPE	BEDDING DIP		BEDDING JOINTS		CROSS JOINTS		COMMENTS
		LENGTH	%	LENGTH	%		CATEGORY	NO.			DEPTH	ANGLE	NO.	FREQ.	NO.	FREQ.	
(m)	start w 155																
47.9	157		2.2 / 0.67	0			6		E						0		
9	161	10	2.5 / 0.76	0			6		E						0		
53.9	174	10	8.0 / 2.44	0.75	0.23		7		E						1		
57.0	187	10	6.75 / 2.06	0.1	0.21		7		E						0		
60.0	197	10	10 / 3.05	5.22	1.59		13		E						2		
62.4	205.5	8.5/2.6	7.9 / 2.41	0.8	0.24		7		E						2		
65.5	216	10.5	10.5 / 3.20	7.9	2.41		9		E						0		
69.0	227.5	10.5	10.5 / "	1.55	0.47		9		E						4		
72.2	237	10.5	10.5 / "	2.99	0.91		7		E						2		
75.3	247	10	10 / 3.05	3.80	1.16		10		E						1		
78.3	257	10	5.4 / 1.65	1.6	0.49		7		E						1		
80.0	262.5																
			262.5 START														
91.9	287	4.5/1.4	4.2 / 1.28	0.55	0.17		3		E						1		
93.7	294.5	7.5/2.3	4.5 / 1.37	0.35	0.11		7		E						2		
96.1	302.5	8/2.4	7.5 / 2.29	3.60	1.10		12		E						0		
99.4	296.5	7/2.7	9.0 / 2.44	5.80	1.19		12		E						3		
91.9	301.5	10	9 / 2.74	4.45	1.36		10		E						2		
94.2	309	7.5/2.3	7.1 / 2.26	1.95	0.59		10		E						3		
97.2	319	10	10 / 3.05	4.25	1.30		12		E						2		
99.7	327	8/2.4	7.8 / 2.23	2.55	0.78		7		E						1		
102.7	337	10	8 / 2.44	5.25	1.60		10		E						2		
105.8	347	10	10 / 3.05	7.00	2.13		12		E						0		
108.2	355	8	8 / 2.44	2.40	0.73		11		E						2		
111.3	365	10	10 / 3.05	5.85	1.78		11		E						1		
112.5	369	4	4 / 1.23	0.75	0.23		7		E						0		
114.3	375	6	5.13 / 1.56	0.4	0.12		7		E						2		

Fig. 1. Typical rock mechanics core log.

89

PROJECT _____ DRILLHOLE NO. DDH-G-01 COORDINATES: N _____ DATE _____ 19__

LOCATION _____ HOLE SIZE _____ E _____ PAGE __ of __

LOGGER _____ INCLINATION _____ ELEVATION _____

PITEAU & ASSOCIATES
GEOTECHNICAL CONSULTANTS
VANCOUVER CALGARY

GEOTECHNICAL CORE LOG

DEPTH (TO)	LENGTH OF RUN	CORE RECOVERY		RQD		HARDNESS	DEGREE OF BREAKAGE		DEGREE OF WEATHERING	ROCK TYPE	BEDDING DIP		BEDDING JOINTS		CROSS JOINTS		COMMENTS (Depth (m), Length (m))
		LENGTH	%	LENGTH	%		CATEGORY	NO.			DEPTH	ANGLE	NO.	FREQ.	NO.	FREQ.	
381	6	6.0	1.8	2.65	0.4		9		E						1		116.1 1.8
387.5	6.5	6.5	2.0	2.7	0.4		9		E						1		118.1 2.0
392.5	5	3.9	1.2	0.35	0.11		3		E						0		119.6 1.5
396	3.5	3.3	1.0	0	0		6		E						1		120.7 1.1
401	5	5	1.5	0.7	0.21		7		E						1		122.2 1.5
405	4	4	1.2	0.7	"		7		E						2		123.4 1.2
410.5	5.5	5.5	1.7	0.7	"		6		E						2		125.1 1.7
420.5	10	10	3.1	4.25	1.30		9		E						1		128.2 3.1
440.5	20	10.7	3.3	4.2	1.28		7		E						2		134.3 6.1
445	4.5	4.5	1.4	1.8	0.55		7		E						3		135.6 1.4
447	2	2	0.6	0	0		5		E						0		136.2 0.6
456	10	9	2.7	1.6	0.49		9		E						1		140 3.1
464	8	8	2.4	4.75	1.44		10		E						2		141.4 2.4
471	7	5.6	1.7	1.85	0.56		9		E						1		143.6 2.1
477	6	4.6	1.4	0.85	0.26		7		E						1		145.4 1.8
481.5	4.5	4.5	1.4	1.25	0.38		7		E						0		146.8 1.4
489	7.5	7.5	2.3	2.30	0.7		7		E						3		149.0 2.3
497	8	8	2.4	1.6	0.49		10		E						4		151.5 2.4
504.5	7.5	3.8	1.2	0	0		5		E						2		153.8 2.3
512	7.5	7.5	2.3	1.85	0.56		9		E						2		156.1 2.3
516.5	4.5	4.2	1.3	1.35	0.41		7		E						1		157.4 1.4
526.5	10	10	3.1	5.1	1.55		10		E						2		160.5 3.1
537	10.5	10.5	3.2	8.25	2.5		12		E						0		163.7 3.2
547	10	10	3.1	7.2	2.19		13		E						1		166.7 3.2
557	10	10	3.1	7.95	2.42		13		E						2		169.8 "
567	10	9.9	3.0	8.65	2.64		13		E						1		172.8 "
575	8	7.0	2.4	3.2	0.98		10		E						2		175.3 2.4

Fig. 1. Typical rock mechanics core log.

PROJECT _____ DRILLHOLE NO. DDH-G-01 COORDINATES: N _____ DATE _____ 19__

LOCATION _____ HOLE SIZE _____ E _____ PAGE __ of __

LOGGER _____ INCLINATION _____ ELEVATION _____

PITEAU & ASSOCIATES
GEOTECHNICAL CONSULTANTS
VANCOUVER CALGARY

GEOTECHNICAL CORE LOG

DEPTH (TO)	LENGTH OF RUN	CORE RECOVERY		RQD		HARDNESS	DEGREE OF BREAKAGE		DEGREE OF WEATHERING	ROCK TYPE	BEDDING DIP		BEDDING JOINTS		CROSS JOINTS		COMMENTS	
		LENGTH	%	LENGTH	%		CATEGORY	NO.			DEPTH	ANGLE	NO.	FREQ.	NO.	FREQ.		
578.5	3.8	3.8	1.15	0.35	0.11		7		E						2		176.3	1.15
582.5	4	4	1.2	1.05	0.32		7		E						2		177.5	1.2
587	4.5		1.4	0.35	0.11		5		E						1		178.9	1.4
592	5	4.7	1.4	0.35			3		E						0		180.4	1.5
595	3	3	0.9	0.35	11		5		E						0		181.4	0.9
600	5	4.7	1.4	0.7	0.21		4		E						2		182.9	1.5
607	7	7	2.1	2.45	0.75		7		E						2		185.0	2.1
614.5	7.5	7	2.1	2.05	0.62		9		E						3		187.3	2.3
620	5.5	4.75	1.48	0.85	0.26		6		D						4		189	1.7
622.5	2.5	3.9	1.19	0	0		6		D						3		189.7	0.8
627	4.5	4.5	1.4	0.4	0.12		6		D						2		191.1	1.4
633.5	6.5	6.5	2.0	3.3	1.0		9		E						3		193.1	2.0
638.5	5	4.7	1.4	1.75	0.53		9		D						0		194.6	1.5
647	8.5	8.5	2.6	5.3	1.62		10		E						0		197.2	2.6
655.5	8.5	8.5	2.6	6.7	2.04		10		E						2		200.1	2.6

Fig. 1. Typical rock mechanics core log.

DDH 89GC-101 (2 / 8)

CURRAGH RESOURCES INC.

Page _____ of _____

Logged by _____

ASSAY LOG (SAMPLER'S COPY)

Date _____ Sampled by _____

CODE	FROM	TO	SAMPLE	INTR.	REC (m)	UNIT	DESCRIPTION
	10 0 14	16 76 20	22 — 26	28 76 30	32 — 34	36 WASTE 40	42
	76 0 / 12149 4	77 3 / 12153 8	4117101	14 4	1 / 14 3	1 14 A 14	
	77 3 / 12153 8	78 8 / 12158 6	4117102	14 6	1 / 14 6	1 14 A 14	
	78. 8 / 1 1 1	95 7 / 1 1 1	1 9 1	16 4	-1 / 1 0	1 1 1 1	waste
	85 2 / 12179 7	86 1 / 12182 5	4117103	12 8	2 / 0 8	1 14 A P	+7
	86 1 / 12182 5	87 20 / 12186 0	4117104	13 5	3 / 5	1 14 A 10	(4C0) minor
	87 2 / 12186 0	87 6 / 12187 5	4117105	1 5	1 / 5	1 15 C 14	Bxa
	87 6 / 12187 5	88 7 / 12191 0	4117106	13 5	3 / 5	1 14 G 10	± 1 minor
	88 7 / 12191 0	89 8 / 12194 7	4117107	13 7	3 / 7	1 14 G 10	± 1 minor
	89 8 / 12194 7	91 82 / 13101 2	4117108	16 5	2 / 5	1 15 C 14	* (4D0) minor
	91 8 / 13101 2	92 9 / 13104 7	4117109	13 5	3 / 5	1 14 G 10	
	92 9 / 13104 7	93 7 / 13107 5	4117110	12 8	2 / 8	1 14 G 10	(5C4*) trace
	93 7 / 13107 5	95 1 / 13112 2	4117111	14 7	4 / 7	1 14 A 10	Bxa
	13112 2	96 26 / 13115 6	4117112	13 4	3 / 4	1 14 A 10	
	1 96 2 / 1 1 1	99 2 / 1 0 1	1 0 1	13 0	—	waste	
	99 2 / 13125 5	100 4 / 13129 3	4117113	13 8	3 / 8	1 14 A 10	
	13129 3	101 34 / 13132 4	4117114	13 1	3 / 1	1 14 C 10	(5C4*) minor
	1 101 3 / 1 1 1	1 96 10 / 1 0 1	1 0 1	H 7	—	WASTE	
	108 0 / 13147 9	107 58 / 13151 2	4117115	14 9	1 / 5 9	1 5 A 1 1 9	6 (4C0) minor
	13152 8	108 80 / 13157 0	4117116	14 2	3 / 2	1 14 A P	
	13157 0	110 1 / 13161 1	4117117	14 1	2 / 1	1 14 A P	(5A196) minor.
	1 1 1 0 1 / 1 1 1	1 1 1 3 5 / 1 0 1	1 0 1	13.4	—	WASTE	
	113 5 / 13172 3	114 43 / 13175 3	4117118	13 0	3 / 0	1 14 A 10	
	1 1 1 4 4 / 1 1 1	1 22 2 / 1 0 1	1 0 1	1 8	—	WASTE	
	122 3 / 14101 1 0	123 7 / 14105 9	4117119	14 8	1 / 5 8	5 A 1 1 9	(4C7*) minor
	14105 9	124 25 / 14107 5	4117120	1 6	1 / 5 6	4 1 C 10 1	
	1 1 2 4 2 / 1 1 1	1 57 1 / 1 0 1	1 0 1	32.9	—	WASTE	
	157 1 / 15111 5	157 60 / 15117 0	4117121	1 5	1 / 5	4 E 1 1 17 1	(4C37) Bxa 60:40
	15117 0	159 08 / 15121 8	4117122	14 8	1 / 5 8	4 K 1 1 3 1 4	
	15121 8	160 12 / 15127 2	4117123	15 4	1 / 5 4	4 1 C 10 1 1	
	15127 2	162 10 / 15132 0	4117124	14 8	1 / 5 8	4 1 C 10 1 1	
	15132 0	163 70 / 15137 0	4117125	15 0	1 / 5 0	4 1 C 10 1 1	
	15137 0	165 20 / 15142 0	4117126	15 0	1 / 5 0	4 1 C 10 1 1	
	15142 0	166 70 / 15147 0	4117127	15 0	1 / 5 0	4 1 C 10 1 1	
	15147 0	168 03 / 15151 1	4117128	14 3	1 / 3 3	4 1 C 10 1 1	
	15151 1 3	169 50 / 15156 0	4117129	14 7	1 / 4 7	4 1 C 10 1 1	
	15156 0	170 84 / 15161 0	4117130	14 4	1 / 4 4	4 1 C 10 1 1	

1.3

DDH 89G-01 (2–8)

CURRAGH RESOURCES INC.

Page _____ of _____

Logged by CLR

ASSAY LOG (SAMPLER'S COPY)

Date JUNE 29/89 Sampled by _____

CODE	FROM	TO	SAMPLE	INTR.	REC (m)	UNIT	DESCRIPTION
1	10 0 14	16 20	22 26	28 30	32 34	36 40	42
	1560 4	1565 34 (172)	411731	5 0	5 50 (15)	14C0	
	1565 4	1570 70 (173)	411732	4 6	4 46 (14)	14C0	
	1570 0	1575 30 (175)	411733	5 0	3 03 (10)	14C0	
	1575 0	1578 20 (176)	411734	3 0	3 00 (09)	14C0	
	1578 0	1582 55 (177)	411735	4 5	4 21 (12)	14C0	
	1582 5	1586 60 (178)	411736	3 5	3 00 (09)	4K 3 6	(4C3)
→	178.6	184.7	— 0 —	6 1	—	WASTE	
	1606 0 (18.4 7)	1607 2 (185 1)	411737	1 2	1 02 (04)	14A0	Bxa
	1607 2	1611 59 (186 5)	411738	4 7	3 02 (10)	14G0	±4
	1611 9	1615 4 (187 6)	411739	3 5	3 15 (11)	14G0	±4 (5C*) trace
	1615 4	1620 00 (189 0)	411740	4 6	2 04 (07)	14A0	
	1620 0	1625 50 (190 5)	411741	5 0	5 50 (15)	14C3	Bxa
	1625 0	1628 5 (191 6)	411742	3 5	3 02 (10)	14C3	Bxa
	1628 5	1630 7 (192 2)	411743	2 2	2 02 (07)	14A0	Bxa
	1630 7	1632 9 (192 9)	411744	2 2	2 02 (07)	14C0	Bxa
→	1929	1998	— 0 —	6 9	—	WASTE	

89-G-02

CURRAGH RESOURCES INC.

Page 1 of ____

DIAMOND DRILL CORE LOG

Date: _____

Hole Number: 89G-02

Reference Fabric Orientation Diagram:

Project: 1989 GRUM FILL-IN

Location: _____

Claim: _____

UTM ~~Terr.~~ Plane Co-ords.: 6904438.112 N 5908.82 N

592453.326 E 2425.15 E

Grid Co-ords: 58W / 065

Elevation: 1256.493

All symmetry determinations looking

Total Depth: 621 feet 189.3 m _____ with _____ dipping

Inclination: -90° VERTICAL _____ with dip azimuth _____.

Purpose: Test Champ zone

Reason hole Terminated: Drilled through skunky ore

Logged by: CV REED

Date(s) Logged: June 29 - July 3, 1989

Drilling Contractor: ARCTIC

Hole Cemented: No

Steel down Hole: 40' CASING

CORE Size	From	To
NW	0'	62
NQ	32	621

Collar Cased and Capped: No

Assay Lab: _____

Certificate No's: _____

Started: June 25/89 Completed: June 27/89

Bedrock at 29'

CURRAGH RESOURCES INC.
Diamond Drill Core Log

DDH 89G-02 (2–8)

Date: _____ Logged By: _____

Code	Drillhole	Elevation	Northing	Easting	Units (feet/metres)	R.F.E.	
1	2–8	10–16	17–24	25–32	34–39	41–42	
T	89G-02						

FEET

Code	Drillhole	Depth	Zenith Angle	True Azimuth	Comments
1	2–8	10–14	22–26	28–32	34–56
R	89G-02	0.0	-90.0	0.0	AT COLLAR
R	89G-02	93.9 / 308	-89.0	353.8 / 306.0	SPERRY-SUN
R	89G-02	139.6 / 458	-88.0	378.8 / 331.0	SPERRY-SUN
R	89G-02	185.3 / 608	-85.0	400.8 / 353.0	SPERRY-SUN
R					
R					
R					
R					
R					
R					
R					
R					
R					
R					
R					
R					
R					
R					
R					
R					
R					
R					
R					

Code	Drillhole	Comments, Errant Remarks, Snivellings and / or Lewd Suggestions
1	2–8	10–56

DDH 89G-02

CURRAGH RESOURCES INC.
Lithologic Log

Page 03

Date: June 29/89 Logged By: CVR

Code	From	To	Recov.	No.	Unit	Description
1	10 14	16 20	22 24	26 28	30 34	35
	0 0	32 0		1	#	3 pieces of redrilled 10AB anvil batholith fragments
		~~97~~ 98				
	32 0	53 0		2	5A16	
	98	~~101~~ 162				Mod⁻ hard → hard, thinly banded + laminated, black, carbonaceous, siliceous phyllite. S_2 surfaces are carbon black + strongly mark fingers. Contains abundant fine qtz siltstone laminations which define S_2 + locally define lithons. Core is intensely broken along steep fracture system largest piece approximately 4" long. Unit is noncalcareous and is only slightly weathered along thin fractures. P_y occurs in fine agglomerates within fractures
						TOI → 37.0 ū broken 3.8' spread out rec'd.
						37.0 → 47.0 rubble due to steep fractures 8.5' spread out rec'd.
						47.0 → EOI rubble 0.8' spread out rec'd
	53 0	62 0		3		NO RECOVERY
	162	189				
	62 0	85 7		4	5A10	± 1
	189	260				Mod⁻ soft to locally hard, CS_2 foliated, black, carbonaceous phyllite. Similar to unit # 2 except qtz siltstone laminae and bands contain interstitial calcite and S_1 lithon texture more evident S_2 surfaces are carbon black. Unit is slightly lighter than higher 5A16 (#2). Core is highly fractured and broken.
						62.0 → 67.0 only 0.9' rec'd. Contains small 10AB ovbd.

DDH B-89-02

CURRAGH RESOURCES INC.

Lithologic Log

Date: June 29/89 Logged By: CVR

Code	From	To	Recov.	No.	Unit	Description
	10 14	16 20	22 24	26 28	30 34	35
						fragmental - caved in when casing deepened to 62'.
						67.0 - 77.0 Rubble 3.9' rec'd.
						77.0' - 82.5' v broken 4.0' rec'd.
						82.5 - 83.8' v broken, recy o.k
						83.8' - EOI rubble 0.5' rec'd
						Poor recovery due to abundant steep fractures - not related to fault
	1815 7	1/1315 6		15	15A10	
	1260	413				Mod soft dark grey → black, CS2 foliated, carbonaceous phyllite contains abundant thin qtz-calcite siltstone laminae defining S1 + S2. S2 surfaces range from shiny medium grey to black. Contains local small rounded, v hard, fine grained, primary? chert concretions. Nodules are up to 1cm ϕ. Contains abundant steep fine fractures infilled w calcite ± qtz ± minor py.
						70I → 114.0 v broken along fractures + S2 14.3' spread out rec'd.
						70.I → 87.0 1.2' rec'd 117.0 → 124.5 3.5' rec'd.
						87.0 → 92.5 1.9' rec'd 124.5 → EOI recy good
						92.5 → 97.0' 2.0' rec'd
						97.0' → 102.5 1.4' rec'd
						102.5 → 105.5 1.9' rec'd
						105.5 → 110.0 2.0' rec'd
						110.0 → 114.0 2.3' "
						114.0 → 117.0 2.0' rec'd

DDH 89G-02 (2 8)

CURRAGH RESOURCES INC.
Lithologic Log

Page 05

Date: June 29/89 Logged By: CVR

Code	From	To	Recov.	No.	Unit	Description
1	10 14	16 20	22 24	26 28	30 34	35
	113156	114100		16	110810	(5C4*) 50 : 50
	413	427				TOI - 138.1 Pale olive green + cream-grey stained mod soft chloritic phyllite. S_2 surfaces mottled dull green + grey. Dolomite occurs ū qtz in thin bands // to S_2. Lower contact // to S_2.
						138.1 → EOI - white, pegmatitic dull qtz vein. Contains traces of Py + dark green chl in fractures. Margin ū metabasalt brecciated. Bottom contact lost in rubble.
						TOI - 138.1 ū broken ū local rubble 1.1' rec'd.
						138.1 → EOI ū broken 1.2' rec'd.
	114100	117117		17	151A161	± $ minor
	427	1523				Dominately thinly PS2 laminated + banded, moderately siliceous, slightly dolomitic carbonaceous phyllite. S_2 surfaces are carbon black + strongly mark fingers. Contains abundant thin qtz ± dol siltstone laminations defining S_2 + locally defines S_1. Qtz rich bands contain local minor diss py. Unit contains abundant steep fine fractures ū filled ū calcite + quartz. Primary? rounded fine grained ū hard black chert nodules occur periodically. Long axis of nodules are aligned // to S_2. within the "shadows" of some nodules, primary? qtz siltstone bands preserved.
						Overall, unit is harder, darker and exhibits a more pervasive S_2 fabric than unit #5. Calcite appears to be replaced by dolomite in thin siltstone bands + laminae.

DDH 89G-02

CURRAGH RESOURCES INC.
Lithologic Log

Page 06

Date: July 1/89 Logged By: CUR

Code	From	To	Recov.	No.	Unit	Description
1	10 14	16 20	22 24	26 28	30 34	35
						Core is very broken along S_2 + steep fractures.
						19.0' rec'd - see RQD sheet for recry between drill runs.
						Core loss due to intensive fracturing. No obvious faults.
	1717	2045		8	5B2	→ [5A0] (10Q0)
	523	623				Medium → dark grey PS_2 foliated - locally CS_2 foliated, moderately carbonaceous phyllite. S_2 surfaces range from dark steel grey to locally black. Contains local qtz-calcite siltstone bands + laminae which define S_1 + S_2. Unit contains locally abundant - steep hairline fractures infilled w̄ calcite. Carbon content approaches 5A but unit is lighter overall than 5A higher in the hole. No obvious faults.
						70I - 193 v̄ broken along S_2 + steep fractures 15.3' spread out rec'd.
						193 - EOI rubble 7.4' feet spread out rec'd
	2045	2104		9	5A	GOUGE
	623	641				Black, flakey, soft, carbonaceous phyllite mod gouge. Top contact lost in rubble. Bottom contact ∥ to S_2. Carbon content ↑ moving down gouge zone.
						Core is gouge - 3.4' rec'd.
	2104	2167		10	5A19	$ → [4A0 ± #]
	641	660				CS_2 foliated, black, hard, carbonaceous, siliceous phyllite transitional to qtzite. Qtz - $S^=$ banding is

DDH 89G-02
2 8

CURRAGH RESOURCES INC.
Lithologic Log

Date: July 1/89 Logged By: CUR

Code	From	To	Recov.	No.	Unit	Description
1	10 14	16 20	22 24	26 28	30 34	35
						poorly developed and defines S_1 + S_2. S_2 surfaces are dull carbon black. Est % Py ≈ 3-5%. Contains traces of Sph within qtz bands. Dolomite occurs locally diss^n within fine qtz siltstone litheans.
						TOI → 114.3 mod^n broken, recy good.
						114.3 → EOI v broken along fractures, recy good.
	2167	2328		111	5B62	(1000)
	660	709				Mod^n soft, noncalcareous, moderately carbonaceous, locally CS_2 foliated, dark grey to black, phyllite. Contains locally abundant thin qtz siltstone microlithons defining S_1. Core is locally v broken due to steep fractures. S_2 surfaces dark steel grey to locally black. Centered at 222.0 is highly fractured + broken 8" thick pegmatitic qtz vein. Centered at 228 is 1' thick qtz vein. Margins of vein brecciated + X-cut S_2.
						TOI → 223.5 v broken, local minor incipient gouge + bxa along fractures. 6.2' core rec'd.
						223.5 → 227.0 v broken, 1' core rec'd. Lost recovery does not appear to be related to rock conditions - likely mechanical failure - ie mislatch.
						227.0 → 228.0 mod broken, recy good.
						228.0 → 229.6 - v broken - incipiently gouged + brecciated - bxa related to qtz vein.
						229.6 → EOI mod broken, bottom 3' of unit is highly fractured qtz vein. Fractures are incipiently brecciated +

DDH 89G-02

CURRAGH RESOURCES INC.
Lithologic Log

Page 08

Date: July 1/89 Logged By: CUR

Code	From	To	Recov.	No.	Unit	Description
1	10 14	16 20	22 24	26 28	30 34	35
						and gouged. Recov. OK.
	2328	2389		12	5A16	
	709	728				Dark grey → black mod hard, siliceous, noncalcareous, carbonaceous phyllite. Unit is CS_2 foliated. Contains abundant thin qtz-siltstone laminae defining S_1. S_2 surfaces are dull carbon black and mark fingers. Contains local minor Py infilling thin fractures + diss in traces in qtz-rich bands. No obvious faults. Core w̄ broken, recov good.
	2389	3070		13	5B22	→ [5A0] (5C#) minor.
	728	936				Mod soft, locally CS_2 foliated dark grey to locally black, mod carbonaceous phyllite. S_2 surfaces are dull dark grey + only slightly mark fingers. Unit is a fence-sitter, v̄ close to 5A. Contains abundant, thin qtz calcite laminations which define lithons. In bottom 15' of unit, a CS_3 texture is locally evident defined by micaceous foliation X cutting S_2. At 298.5 S_3 = 000/15°. Contains local fractures infilled w̄ qtz + calcite ± fine py "agglomerates". Centered at 282.7 is pale olive green, calcareous, thinly laminated, chloritic phyllite. Calcite + dol are diss throughout. Contains thin local qtz + calcite bands defining S_1? Margins of metabasite sharp, ∥ to S_2. Core is slightly broken, recovery is good.

DDH 89-02 (2 of 8)

CURRAGH RESOURCES INC.
Lithologic Log

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Date: 7/1/89 Logged By: CVR

Code	From	To	Recov.	No.	Unit	Description
1	10 14	16 20	22 24	26 28	30 34	35
	13P7 0	13111 7		114	15B12	6 Bxa
	1936	1950				Mod soft, medium → dark grey, highly fractured, moderately carbonaceous phyllite breccia. Contains abundant X cutting steep fractures infilled w qtz + calcite. Fractures generally trend < 30° to core axis locally fractures infilled w Cpy + traces of Po. Phyllite fragments range from 1 - 15 cm and show minor displacements along fractures. Fractures range from 1mm to 8 cm thick.
						Bxa does not appear to mark a significant fault. Units on both sides of bxa zone are the same.
						Core is most broken, recov is good.
	13111 7	13131 1		115	15B12	→[SAO]
	950	1009				Same as unit B. Unit is slightly lighter moving down the interval. A CS2 foliation is locally visible in thin intervals. S2 surfaces are medium to dark, steely grey + only slightly mark fingers. Unit is moderately calcareous. Calcite occurs disseminated in thin qtz siltstone bands + laminae which locally define liftons.
						No obvious faults.
						Core is fairly broken, very good.
	13B11 1	13318 7		116	14C1713	$ minor (4247) (5826) 80:10:10
	1009	1032				Unit appears to have originally been a pebble size tuff
						w SiO2, Py, Po and traces of sph + gal. Dominate

DDH 89G-02 (2–8)

CURRAGH RESOURCES INC.
Lithologic Log

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Date: July 1/89 Logged By: CUR

Code	From (10–14)	To (16–20)	Recov. (22–24)	No. (26–28)	Unit (30–34)	Description (35)
						unit is a v̄ hard, light grey, magnetic, pyritic, qtzite.
						Within qtzite are bands or clasts? of mod soft, pale
						light grey - green altered musc + chl phyllite. Margins
						of 4L are both ∥ to S_2 in some cases and
						brecciated + irregular in others. Dolomite occurs within
						qtzite as small tan carbonated clasts. Clasts are generally
						< 2mm ϕ. 4L contains thin qtz-sulphide bands ∥ to S_2.
						Dominate $S^=$ are Py, lesser Po and traces of sph + gal.
						Est % Py for entire unit ≈ 30%
						Est % Pb + Zn - 1-2%
						Est % Po - 15%.
						Core is $\bar{5}$ broken, recy good.
						335.9 → 337.0' is band of mod soft, PS_2 banded, noncalcareous, mod carbonaceous phyllite top + bottom contacts bxa'd. Likely 1 large "clast".
	3387	3495		17	5B01	±2 ± $ minor (4L24)
	1032	1065				Dominate unit is a mod soft, locally carbonaceous, locally
						CS_2 foliated med grey to locally black in thin intervals,
						musc phyllite. Calcite is absent. Contains local minor dolomite
						within thin qtz-siltstone laminations, these laminations locally
						define microlithons. Carbon is more abundant near TOI -
						unit gradually becomes lighter moving down the hole.
						From 340.5 to 342.4 and 343.5 to 344.6 are
						mod soft, buff grey, altered sulphide bearing, musc phyllite
						Margins of 4L in top band are brecciated and contain
						local thin gouge in fractures. Margins of lower 4L band are
						∥ to S_2. Est % $S^=$ in 4L 5-10% dominately pyrite -
						traces of sph. in thin fractures and bands ∥ to S_2.

DDH 89G-02 (2 – 8)

CURRAGH RESOURCES INC.
Lithologic Log

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Date: July 1/89 Logged By: CUR

Code	From	To	Recov.	No.	Unit	Description
1	10 – 14	16 – 20	22 – 24	26 – 28	30 – 34	35
						TOI → 337.8 $\bar{s}$ broken, recvy good
						337.8 – 342.5 $\bar{v}$ broken along fractures – some incipient gouge along fractures
						342.5 → EOI $\bar{s}$ broken, recvy good.
	3495	3578		18	5A10	$ → [5B2$]
	1065	1090				Dominately PS2 foliated, dolomitic, carbonaceous, phyllite. Contains local qtz siltstone bands – Bands have interstitial fine dol. Carbon content gradually decreases moving down the interval. Colour changes from black at TOI down to light grey at EOI. Contains local steep X-cutting fractures infilled w̄ qtz + calcite.
						Core slightly broken, recvy good. No faults.
	3578	3652		19	4C01	±7 ± $ micaceous (4L247) 65 : 35
	1090	1113				Looks like same unit as # 16. Appears to be originally a pelite flooded out by later remobilization of sulphides + quartz. Unit is hard to locally mod⁻ soft, light grey, micaceous, sulphide banded qtzite. Banding defines S2 and locally S1. Bands defined by dominate Py, lesser Po, interstitial qtz small tan dol "clasts." Dol "clasts" range from 1mm to 2 cm ø. Banding ranges up to 5 cm thick. Est % Py ≈ 15-20% Po ~3-5%. Est Pb + Zn 1-2% MAYBE.
						361.5 → 364.0 is mod⁻ soft light buff grey-green altered mass ≥ chl phyllite. Contains local thin stringers

DDH 89G-02 (2 – 8)

CURRAGH RESOURCES INC.
Lithologic Log

Date: July 1/89 Logged By: CUR

Code	From	To	Recov.	No.	Unit	Description
1	10 – 14	16 – 20	22 – 24	26 – 28	30 – 34	35
						and thin bands of dominate Py, lesser Po + traces of Sph + Gal. Est % S= 5%. Steep CS3? foliation locally visible. Contains local s-bounded qtz eyes with thin green chl rims. Chl also occurs in thin selvages to local qtz veins.
						No faults
						Core s̄ broken, recry good
	3652	3699		210	5B01$	±2 (4L24) 70.30
	1113	1127				MIXED UNIT - Top 1.3' mod soft, noncalcareous, PS2 foliated buff grey green musc>chl altered phyllite. Contains local thin stringers + bands of qtz + py ± traces of Sph + Gal. 366.5 - 369.0, mod soft, PS2 foliated dark grey to locally black, moderately carbonaceous phyllite. Contains local thin qtz siltstone bands. Bands are generally < 1cm thick, define S2 and have minor interstitial dol. Bottom 0.8' of unit is buff white-grey altered musc>chl phyllite. Contains local minor traces of Py + Po within thin fractures. Margins of 4L are ∥ to S2 gradational over a few inches.
						Core is s̄ broken, recry good. - No faults
	3699	3717		21	4E174	$ ± 8 minor
	1127	1133				Poorly banded, ū hard semi massive → massive pyrrhotitic/pyritic S= sulphides show ductile flow characteristics around local dol and micaceous quartzite clasts.

DDH 89G-02

CURRAGH RESOURCES INC.
Lithologic Log

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Date: July 1/89 Logged By: CVR

Code	From	To	Recov.	No.	Unit	Description
1	10 14	16 20	22 24	26 28	30 34	35
						clasts are approx 15% of unit volume + are preferentially
						orientated // to S_2 - clasts range in size up to 5 cm ϕ
						Sphalerite + gal locally concentrated in thin streaks
						// to S_2. Minor mag occurs similarly.
						Est Pb + Zn 6-8%
	3711 7	3778		22	5B62	±4 (5C4*) trace.
	1183	1152				Mod soft, PS_2 foliated, noncalcareous, dark grey musc
						phyllite. Top 8" "bleached" to light grey. Bottom
						1' against sulphides also altered to light grey. Py +
						Po infill local minor fractures.
						Core mod broken, recvy good. No faults.
	3778	3801		23	4H01	(4L24) (5A62) 70:20:10. Bxa
	1152	1159				Hard to locally mod soft, massive Po, phyllite
						breccia. Appears similar to #16 + #19 except Po more
						abundant. Poorly banded Po < Py contains fractured and
						rotated "clasts" of soft white-tan altered musc + chl
						phyllite. Clasts range up to 6 cm ϕ. Bottom 6"
						of unit contains 2 "clasts" of dark-grey to black,
						noncalcareous carbonaceous phyllite - same as #24. Massive
						Po + Py contains local small subrounded clasts of dol.
						Top + bottom contact highly fractured + brecciated.
						$S^=$ have been extensively remobilized into fractures.
						Est % Po 20-25%
						Est % Py 10-15%

DDH 690-02 (2 – 8)

CURRAGH RESOURCES INC.
Lithologic Log

Date: July 1/89 Logged By: [illegible]

Code	From	To	Recov.	No.	Unit	Description
1	10 – 14	16 – 20	22 – 24	26 – 28	30 – 34	35
						Est % 4L clasts ≈ 20% / Est % 5B62 clasts 15%
						Est % Pb+Zn 2-3%. Remaining = Qtz, Mica, Dol.
						Core slightly broken, recovery is good.
	380 1	391 1		2H	5A6	
	1159	1192				Black, dominately PS2 foliated - CS3? foliation locally visible in
						thin intervals, noncalcareous carbonaceous phyllite. S2 surfaces
						carbon black + mark fingers Top 1.0 ft highly fractured
						w̄ CC infilling fractures.
						380 → 381.2 - v̄ broken along fractures
						381.2 → 387.0 m̄ broken, recvy good.
						387.0 → 389.0 v̄ broken, recvy good
						389.0 → 389.5 incipient gouge
						389.5 → EOI m̄ broken, recvy good.
						Bottom 1.5' contains abundant thin fractures infilled w̄ calcite,
						Py ± Po ± traces of sph
	391 1	393 2		25	4L247	± Bxq.
	1192	1198				Mod soft, locally highly fractured, altered musc > chl
						phyllite. Contains local fractures infilled w̄ Py, Po ± calcite
						+ Dolomite. Bottom 2" of unit is brecciated qtz +
						calcite vein. Est % Py 8-10%. Est % Sph + Gal 1-2%
						TOI → 392.5 s̄ broken, recvy good
						392.5 → EOI v̄ broken + brecciated, recvy O.K.
						Unit contains abundant steep hair-line fractures infilled
						with Py ± Po + Sph. Overall colour is light buff

DDH EAG-02
2 8

CURRAGH RESOURCES INC.
Lithologic Log

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Date: 2/3/87 Logged By: CVR

Code	From	To	Recov.	No.	Unit	Description
1	10 14	16 20	22 24	26 28	30 34	35
						grey - green
	1391 3 2	1411 5 3		1216	15A$	± 1 ± 9
	1119 8	1216 6				CSz foliated mod soft ⇒ locally hard, black, locally siliceous carbonaceous phyllite. Contains abundant qtz + dol siltstone laminations and bands which define bdg S1 + S2 fabrics. Qtz + dol locally define veins and locally contain fine py + traces of sph. S2 surfaces are shiny black.
						Est % S1 dominately Py is 3-5%. Bottom 1.2' of unit gradually loses carbon and is a lighter grey.
						No obvious faults
						701 → 401.0 ū broken along S2 recy good
						401.0 → 402.2 ū broken along fractures + S2 recy good
						402.2 → EOI ū broken, recy good.
	1411 5 3	1412 3 1		1217	141C3B	± $ minor (5A$) (4L21) 95:5:5
	1266	1290				Dominate unit is poorly banded ū pyritic qtz.te. Contains local minor thin bands defined by diss sph + gal. Contains abundant thin fractures is filled ū remobilized py.
						Qtz content varies from 15 - 20%. Dolomite occurs locally in small irregular thin clots Est % Pb+Zn 3-4%
						Centered at 4161 is 3" thick, black, PS2 foliated carbonaceous phyllite band. Contacts // to S2.
						Centered at 4171 is 6" clast of mod-soft, bleached mica phyllite. Contains abundant thin Py + Qtz stringers.
						701 → 1174 ū broken, recy O.K.

DDH B96-02 (2–8)

CURRAGH RESOURCES INC.
Lithologic Log

Date: July 3/89 Logged By: CWR

Code	From	To	Recov.	No.	Unit	Description
1	10–14	16–20	22–24	26–28	30–34	35
						117.4 → EOT c̄ broken, very good.
	4213 1	4312 0		2B	4D0	± #±3 Bxa micaceous (4L24) BxA (5A619) (5C4*) 60:30:5:5
	1290	1317				Highly mixed and brecciated unit. Dominate unit is highly fractured v̄ hard, poorly bonded, locally calcareous, pyritic qtzite. Fractures trend <30° to core axis. Sulphides extensively remobilized into fractures. Est % Pb+Zn ranges from 4–8%.
						Within qtzite are local "clasts" of highly broken + fractured, incipiently gouged, v̄ soft altered musc > chl phyllite. Margins w̄ qtzite are irregular + brecciated.
						TOI 226.0 is brecciated soft buff white-tan altered phyllite. Within this interval are several thin stringers + bands of qtz + py ± minor sph + gal. Also within this interval are local clasts of pyritic qtzite ranging up to 5 cm ϕ. These clasts are highly broken + fractured - contain minor sph + gal. Centered at 429.5 is 5" thick band of black, mod soft, noncalcareous, PSO foliated phyllite. Margins are ∥ to S_2.
						At 428.3 in Py qtzite is polished, slickensided shear trending 000/11° (relative to S_2). Slickensides indicate dip slip.
						At 423.9 is highly altered v̄ soft, dolomitic pale ken-green metabasite. Margins of band highly fractured + gouged

DDH A9G-02

CURRAGH RESOURCES INC.
Lithologic Log

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Date: July 3/89 Logged By: CVR

Code	From	To	Recov.	No.	Unit	Description
1	10 14	16 20	22 24	26 28	30 34	35
						TOI → 429.3 v̄ broken, 1' core loss
						429.3 → EOI v̄ broken, recvy good.
	4320	4375		29	4K33	± $ ± 8. ± 9 trace ± 5 minor
	1317	1333				Thinly PS2 banded, brassy yellow and grey striped, v̄
						hard, v̄ pyritic qtzite. Banding ranges on a scale of
						1 mm → 2 cm. Locally banding is up to 5 cm thick.
						Banding defined by dominate Py v̄ local minor thin
						reddish brown sph bands. Dol occurs locally as thin
						tan bands and clasts aligned ∥ to S2. Magnetite occurs
						locally in thin black streaks aligned ∥ to S2. Traces of
						cpy infill fine fractures. Calcite, Qtz + chl also infill
						local steep anastimosing fractures. Fractures range from
						20 - 60° to core axis. Sulphides also have been
						extensively remobilized into fine fractures. Contact v̄ lower
						phyllite is sharp + slightly brecciated - but does
						not look like fault related. Near EOI, local
						paper thin black carbonaceous folia define S2.
						Est %Pb+Zn 2-4%.
						Core is s̄ broken, recvy good.
	4375	4739		30	5A6	± $ minor ± 9 minor
	1333	1444				Black, mod soft, dominately PS2 foliated, thinly laminated,
						carbonaceous phyllite. Contains local minor thin qtz + dol bands
						generally < 1/2 cm thick aligned ∥ to S2. At 447.0' unit contains
						thin band of Po + << sph. Band is approx 1/2 cm thick,

DDH 84G-02 (2 – 8)

CURRAGH RESOURCES INC.
Lithologic Log

Date: July 3/89 Logged By: CUR

Code	From (10–14)	To (16–20)	Recov. (22–24)	No. (26–28)	Unit (30–34)	Description (35)
						// to S_2 + Sulphides remobilized into adjacent fine fractures
						Unit contains local thin steep, discontinuous fractures infilled
						w̄ white calcite + qtz. S_2 surfaces are dull dark grey
						to black and only slightly mark fingers. CS_3? foliation
						locally visible in thin intervals. S_3? is steep < 12° to
						core axis dipping in same direction as S_2.
						TOI → 441.9 w̄ broken, recvy good.
						441.9 – 442.6 dark grey gouge. Top contact 000?/20°
						Bottom contact 000?/48°. Not a significant fault.
						442.6 → EOI mod broken, recvy good. Core v̄ broken
						at end run tags.
	4739	4768		31	5A1	± $ minor.
	1444	1453				v̄ hard, siliceous, PS_2 foliated, thinly laminated, carbonaceous
						phyllite. Is texturally same as unit 30 except harder due
						to higher SiO_2 content. Qtz appears to be ubiquitous
						as well as concentrated in v̄ thin qtz siltstone bands.
						Dolomite occurs locally as minor disseminations within
						thin fine v̄ qtz bands.
						Core s̄ broken along S_2. Recvy good.
	4768	5077		32	5A0	± $ minor
	1453	1547				Same as unit 30. Black, thinly PS_2 foliated, mod soft
						carbonaceous phyllite. Contains minor dol. in local thin qtz rich
						bands. Contains local fine hairline fractures infilled w̄ calcite.
						Contains local minor foliaform qtz veins ranging from

DDH 89G-02 (2 8)

CURRAGH RESOURCES INC.
Lithologic Log

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Date: 2/3/89 Logged By: CUR

Code	From	To	Recov.	No.	Unit	Description
1	10 14	16 20	22 24	26 28	30 34	35
						1cm to 5cm thick Veins contain minor v local tan dolomite in thin elongate "clasts" Chl occurs infilling fractures in qtz veins and in thin pale green selvages to qtz veins. CS_3? is locally well developed in this interval - defined by thin X-cutting S_2 micaceous foliation.
						At 496 S_3 : 000/55°
	5077	5477		33	5B22	± $ minor → [5A0 ± $ minor] (5B7) minor.
	1547	1669				Mod soft, PS_2 foliated, medium to dark grey, moderately carbonaceous phyllite. Unit is lighter than # 32. S_2 surfaces are shiny medium → dark steel grey + only slightly mark fingers. Calcite is absent. Dol. occurs locally as minor dissemi-nations in thin v qtz siltstone bands.
						TOI → 508.8 is light grey w̄ green cast, thinly PS_2 laminated, moderately soft musc + chl phyllite. S_2 surfaces are dull light green - grey. Unit is v̄ calcareous. Calcite appears to be ubiquitous. Contact w̄ higher 5A is sharp ∥ to S_2. Bottom contact w̄ 5B22 is gradational over a few inches ∥ to S_2.
						TOI - 535.2 s̄ broken, recy good
						535.2 - EOI v̄ broken, contains local incipiently brecciated qtz veins ranging up to 5cm thick. Veins have dominate chl ± lesser Po + Py infilling fractures. Recy good.

DDH BAG-02 (2 / 8)

CURRAGH RESOURCES INC.

Lithologic Log

Date: 7-13-89 Logged By: CVR

Code	From	To	Recov.	No.	Unit	Description
1	10 14	16 20	22 24	26 28	30 34	35
	151417 7	151816 5		1314	151A10	± $ minor → [5B22 ± $ minor]
	116669	117188				Mod - soft dark grey → black, CS2 foliated, carbonaceous phyllite. S2 surfaces are shiny dark grey → black and slightly mark fingers. Contains local lithon texture defined by thin qtz ± calcite ± dolomite bands. A local steep S3 foliation is locally developed.
						At 562.0' S3 is // to core axis.
						TOI → 571.0 m broken, recy good.
						571.0 → 579.0 v broken, local minor incipient gouge occurring along fractures. recy good.
						579.0 → EOI s broken, recy good.
						Overall this unit is slightly darker than # 33 and slightly lighter than # 35.
	158655	161237		1315	151A10	± $ minor
	117888	118200				Dominately PS2 foliated, locally CS2 foliated, black carbonaceous phyllite. S2 surfaces are carbon black + mark fingers. Contains abundant thin fine qtz ± calcite ± dol siltstone laminae + bands generally aligned // to S2 although some define local lithons. Contains locally abundant, thin, qtz + cc infilled stringer fractures. Some fractures are infilled w fine py.
						TOI → 602.5 s broken, recy good.
						602.5 → 603.4 v broken + incipiently gouged along thin steep fracture → not significant. recy good
						603.4 → 612.0 m broken along S2 recy good
						612.0 → EOT v broken + "poker chips" recy good.

DDH 89G-02
2 8

CURRAGH RESOURCES INC.
Lithologic Log

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Date: July 3/89 Logged By: CUR

Code	From	To	Recov.	No.	Unit	Description
1	10 14	16 20	22 24	26 28	30 34	35
	6113 7	6211 0		36	5B12	$minor
	1870	1893				Medium → dark grey mod soft, thinly laminated, PS2 foliated, moderately carbonaceous phyllite. Contains local minor dol diss w in thin local qtz rich bands. S2 surfaces are medium steel grey. No obvious faults. Contains local qtz + calcite + dol infilling thin fractures.
						TOI → 618.2 w broken along steep fractures. Local minor gorge along fractures. recy good.
						618.2 → EOH m broken recy good
						EOH

DDH 896-02 (2 8)

CURRAGH RESOURCES INC.
Structural Log

Date: _____ Logged By: Teresa.

Code	From	To	Feature	Sym	S_0 Dip Direct.	S_1 Dip Direct.	S_2 Dip Direct	Description
	1126	1348	C S2	S		200	55	Micaceous fltn + comp. banding
	1260	1812	C S2	S		130	54	" "
	1375	1213	C S2	Z		230	57	" " "
	1509	1617	C S2	Z		340	74	Micac. fltn + comp banding + some pyrite banding ND S_2
	1643	1718	C S2	Z		160	68	Micaceous fltn + comp. banding
	1649	2113	C S2	-		312	51	" " "
	1710	2133	C S2	Z		200	70	" " " "
	1753	2147	C S2	-		240	79	" " " "
	1823	2170	C S2	Z		180	74	" " " "
	1856	2181	P S2	S		110	81	" "
	1914	3010	C S2	Z		120	79	" " " "
	1975	3120	C S2	S		140	66	" " " "
	1036	3410	P S2	-		100	88	Micaceous fltn + comp. banding
	1064	3149	C S2	-		280	74	" " "
	1143	3175	P S2	-		100	73	Micaceous fltn + comp. banding + pyrite banding
	1173	3185	P S2	-			84	Micaceous fltn + comp banding
	1265	4113	C S2	S		120	70	" "
	1337	4385	P S2	-			80	" "
	1350	4443	P S2	-			89	" "
	1402	4610	P S2	-			79	" "
	1475	4814	P S2	-			69	" "
	1530	5012	P S2	-			69	" "
	1606	5311	P S2	-			69	" "
	1625	5313	P S2	-			65	" "
	1701	5518	P S2	S		2100	75	" "
	1777	5813	P S2	S		190	65	" " "
	1823	5918	P S2	S		180	63	" " "
	1856	6019	P S2	-			75	" " "

DDH 896-02- (2 8)

CURRAGH RESOURCES INC.

Page _____ of _____

Logged by CUR

ASSAY LOG (SAMPLER'S COPY)

Date JULY 3/89. Sampled by _____

CODE	FROM	TO	SAMPLE	INTR.	REC (m)	UNIT	DESCRIPTION
1	10 0 14	16 100.9 20	22 — 0 — 26	28 100.9 30	32 — 34	36 WASTE 40	42
	100.9 / 1331	102.4 / 1335.9	41745	4.8	4.8	4C73	(4L) minor
	1335.9	103.2 / 1338.7	41746	2.8	2.8	4C37	Bxa (5B2) 70:30
	103.2	109.0	— 0 —	5.8	—	WASTE	
	109.0 / 1357.8	110.2 / 1361.7	41747	3.9	3.9	4C01	+7 micaceous
	1361.7	111.3 / 1365.2	41748	3.5	3.5	4CL1	
	111.3	112.7	— 0 —	1.4	—	WASTE	
	112.7 / 1369.9	113.3 / 1371.7	41749	1.8	1.8	4E17	4 $
	1371.7	115.1 / 1377.7	41750	6.0	5.2	5B62	
	1377.7	116.2 / 1381.2	41751	3.5	3.5	4H0$	
	116.2	126.6	— 0 —	10.4	—	WASTE	
	126.6 / 4115.3	127.8 / 4119.4	41752	4.1	4.1	4C33	(5A $) minor
	4119.4	129.0 / 4123.1	41753	3.7	3.0	4C33	
	4123.1	130.0 / 4126.7	41754	3.6	3.0	4L24	BxA
	4126.7	131.7 / 4132.0	41755	5.3	5.3	4D01	(5A619) (4L) 85:10:5
	131.7 / 4132.0	133.3 / 4137.5	41756	5.5	5.3	4C33	
	133.3	189.3	— 0 —	56.0	—	WASTE	

EOH

PROJECT DDH 84-6-02 DRILLHOLE NO. _____ COORDINATES: N _____ DATE Jul 20 1984

LOCATION _____ HOLE SIZE _____ E _____ PAGE 1 of 4

LOGGER Ivan + Audrey INCLINATION _____ ELEVATION _____

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GEOTECHNICAL CONSULTANTS
VANCOUVER CALGARY

GEOTECHNICAL CORE LOG

DEPTH (TO)	LENGTH OF RUN	CORE RECOVERY		RQD		HARDNESS	DEGREE OF BREAKAGE		DEGREE OF WEATHERING	ROCK TYPE	BEDDING DIP		BEDDING JOINTS		CROSS JOINTS		COMMENTS	
		LENGTH	%	LENGTH	%		CATEGORY	NO.			DEPTH	ANGLE	NO.	FREQ.	NO.	FREQ.	depth	length
34.5	34.5	2	.6	0	0		5		D								10.5	10.5
37	2.5	1.65	.5	0	0		5		D							1	11.3	.77
41	4	1.2	.4	0	0		5		D							1	12.5	1.2
44	3	3	.9	0	0		6		D							0	13.4	.9
47	3	1.85	.6	0	0		5		D							0	14.3	.9
53	6	.65	.2	0	0		5		D							0	16.2	1.8
67	6	.9	.3	0	0		5		D							0	20.4	1.8
77	10	3.8	1.2	0	0		6		E							0	23.5	3.0
82/5	5.5	4.5	1.4	.35	.1		6		E							1	25.1	1.6
83/5	1.0	.8	.2	0	0		7		E							2	25.5	.3
87	4.5	2.3	.7	0	0		6		E							0	26.5	1.4
92/5	5.5	1.95	.6	0	0		6		E							4	28.2	1.7
97	4.5	2.65	.8	.35	.1		7		E							2	28.2	1.4
102/5	5.5	1.5	.4	0	0		5		E							2	29.6	1.4
105/5	3	2.45	.7	0	0		5		E							1	31.2	1.7
[illegible]	[illegible]	[illegible]	.7	0	0		6		E							1	32.2	.9
114	9	[illegible]	.8	[illegible]	0		[illegible]		[illegible]							3	33.5	1.4
117	3	[illegible]	.7	[illegible]	0		6		E							2	34.7	1.2
[illegible]	[illegible]	[illegible]	1.2	0.35	.1		7		E							2	35.7	.9
131	13.5	6.4	2.0	0	0		7		E							1	37.9	2.3
[illegible]	[illegible]	[illegible]	1.1	[illegible]	0		7		E							4	40.0	1.9
142.8	[illegible]	[illegible]	1.3	.75	.2		7		E							1	41.1	1.2
147	5.2	3.1	1.0	.4	.1		[illegible]		[illegible]							2	43.1	2.0
152	[illegible]	[illegible]	.5	[illegible]	0		[illegible]		[illegible]							2	44.8	1.7
[illegible]	[illegible]	4.6	1.4	0	0		6		E							1	47.8	3.0
[illegible]	[illegible]	[illegible]	1.4	[illegible]	0		[illegible]		[illegible]							[illegible]	49.7	2.1
[illegible]	[illegible]	[illegible]	1.1	2.35	.7		[illegible]		[illegible]							[illegible]	50.9	1.2
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]		[illegible]		[illegible]							1	52.0	1.0

Fig. 1. Typical rock mechanics core log.

PROJECT DDH 89 62 DRILLHOLE NO. _____ COORDINATES: N _____ DATE Dec 27 1959

LOCATION _____ HOLE SIZE _____ E _____ PAGE 2 of 4

LOGGER Ivan & Audrey INCLINATION _____ ELEVATION _____

PITEAU & ASSOCIATES
GEOTECHNICAL CONSULTANTS
VANCOUVER CALGARY

GEOTECHNICAL CORE LOG

DEPTH (TO)	LENGTH OF RUN	CORE RECOVERY LENGTH	CORE RECOVERY %	RQD LENGTH	RQD %	HARDNESS	DEGREE OF BREAKAGE CATEGORY	DEGREE OF BREAKAGE NO.	DEGREE OF WEATHERING	ROCK TYPE	BEDDING DIP DEPTH	BEDDING DIP ANGLE	BEDDING JOINTS NO.	BEDDING JOINTS FREQ.	CROSS JOINTS NO.	CROSS JOINTS FREQ.	COMMENTS depth	COMMENTS length
175	[illegible]	[illegible]	1.4	0.5	.1		6		D							1	53.3	1.4
[illegible]	[illegible]	3	.9	0	0		5		D							1	54.2	0.9
[illegible]	[illegible]	2.5	.8	.35	.1		6		E							1	55.3	.8
[illegible]	[illegible]	3.9	1.2	0	0		5		[illegible]							0	56.2	1.2
191	[illegible]	3.7	1.1	0	0		[illegible]		[illegible]							0	58.2	1.7
193	2	2	.6	0	0		6		[illegible]							3	58.8	.6
[illegible]	[illegible]	[illegible]	1.0	0	0		[illegible]		D							3	60.1	1.4
[illegible]	[illegible]	[illegible]	1.2	0	0		5		D							2	62.2	2.0
[illegible]	[illegible]	[illegible]	.4	0	0		[illegible]									0	63.2	1.1
[illegible]	[illegible]	[illegible]	1.7	1.75	.5		9									1	65.1	1.8
			1.5	0	0											1	66.6	1.5
			1.4	0	0		6									[illegible]	68.1	1.5
			.3	[illegible]	0												69.2	1.1
[illegible]			1.4	[illegible]	.7		[illegible]									[illegible]	71.7	2.6
	[illegible]	[illegible]	3	[illegible]	.2		[illegible]										74.8	3
	[illegible]	[illegible]	3	[illegible]	2.1		[illegible]										77.9	3
	[illegible]	[illegible]	2.6	6.75	2.1		10		E							0	81.1	3.2
276	[illegible]	10	3	5.55	1.7		[illegible]									0	84.1	3
[illegible]	[illegible]	[illegible]	3.1	4.1	1.2		9		E							0	87.3	3.2
[illegible]		10.5	3.2	2.75	.8		[illegible]		[illegible]							2	90.5	3.2
[illegible]	[illegible]	21.5	2.6	[illegible]	.7		9		E							1	93.1	2.6
[illegible]	10	10	3	[illegible]	.8		[illegible]		[illegible]							5	96.2	3
[illegible]	10	10	3	4.55	1.4				[illegible]							2	99.2	3
[illegible]	[illegible]		3	6.55	2.0		12		[illegible]								102.2	3
[illegible]	9.5	9.5	2.9	4.45	1.4		9		E							3	105.2	2.9
356.5	11.5	9.8	2.9	5.75	1.8		9		E							5	108.7	3.5
366.5	10	10	3	7.2	2.2		10		E							2	111.7	3
377.5	10	10	3	5.95	1.8		9		E							2	115.1	3

Fig. 1. Typical rock mechanics core log.

PROJECT DDH 89 G 02 DRILLHOLE NO. _____ COORDINATES: N _____ DATE June 22 1989

LOCATION _____ HOLE SIZE _____ E _____ PAGE 2 of 4

LOGGER Ivan & Audrey INCLINATION _____ ELEVATION _____

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VANCOUVER CALGARY

GEOTECHNICAL CORE LOG

DEPTH (TO)	LENGTH OF RUN	CORE RECOVERY		RQD		HARDNESS	DEGREE OF BREAKAGE		DEGREE OF WEATHERING	ROCK TYPE	BEDDING DIP		BEDDING JOINTS		CROSS JOINTS		COMMENTS	
		LENGTH	%	LENGTH	%		CATEGORY	NO.			DEPTH	ANGLE	NO.	FREQ.	NO.	FREQ.		
397	9.5	9.5	2.9	5.05	1.5		7		D							8	117.9	2.9
393	6	6	1.8	1.6	.5		5		E							3	119.8	1.8
402	9	6.55	2.0	.70	.2		5		D							7	122.5	2.7
409.5	7.5	7	2.1	1.65	.5		6		E							5	124.8	2.3
414.5	5	4.3	1.3	.35	.1		6		E							2	126.3	1.5
424.5	10	10	3.0	4.8	1.5		7		D							5	129.4	3
429.0	4.5	3.8	1.2	.4	.1		6		D							3	130.7	1.3
437	8	6.25	1.9	5.3	1.6		7		D							5	135.2	2.4
443	6	6	1.8	2.5	.8		6		E							3	135.0	1.8
452	9	9	2.7	1.3	.4		6		E							5	137.8	2.7
462	10	9.8	2.9	5.05	1.5		8		E							4	140.8	3
464.5	2.5	1.1	.3	0	0		6		E							2	141.6	.6
473	8.5	8.5	2.6	4.0	1.2		7		D							3	144.2	2.5
483	10	10	3	3.3	1.0		7		E							2	147.2	3
493	10	10	3	2.5	.8		6		E							2	150.3	3
503	10	9.7	3.0	3	.9		7		E							2	153.3	3
507	4	4	1.2	2.2	.7		9		E							3	154.5	1.2
517	10	10	3	3.8	1.2		8		E							3	157.6	3
527	10	10	3	4.8	1.5		8		E							2	160.6	3
537	10	10	3	3.45	1.1		8		E							6	163.7	3
541	4	4	1.2	0	0		6		D							6	164.9	1.2
543.5	2.5	2.5	.8	0	0		6		D							3	165.6	.8
549.5	6	6	1.8	0.35	.1		7		D							9	167.5	1.8
557	7.5	7.3	2.2	0.4	.1		7		E							3	169.8	2.3
567	10	10	3	3.8	1.2		7		E							3	172.8	3
575	8	7.4	2.3	0.35	.1		6		D							4	175.3	2.4
579	4	4	1.2	0	0		6		D							2	176.5	1.2
587	8	7	2.4	1.8	.5		7		E							1	178.4	2.4

Fig. 1. Typical rock mechanics core log.

PROJECT DDH 89 G02 DRILLHOLE NO. _____ COORDINATES: N _____ DATE June 27 1989

LOCATION _____ HOLE SIZE _____ E _____ PAGE 4 of 4

LOGGER Ivan & Audrey INCLINATION _____ ELEVATION _____

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VANCOUVER CALGARY

GEOTECHNICAL CORE LOG

DEPTH (TO)	LENGTH OF RUN	CORE RECOVERY LENGTH	CORE RECOVERY %	RQD LENGTH	RQD %	HARDNESS	DEGREE OF BREAKAGE CATEGORY	DEGREE OF BREAKAGE NO.	DEGREE OF WEATHERING	ROCK TYPE	BEDDING DIP DEPTH	BEDDING DIP ANGLE	BEDDING JOINTS NO.	BEDDING JOINTS FREQ.	CROSS JOINTS NO.	CROSS JOINTS FREQ.	COMMENTS depth	COMMENTS length
597	10	8.8	2.7	2.85	.7		8		E							3	181.9	3
607	10	10	3	1.6	.5		8		D							5	185.0	3
612	5	5	1.5	0.35	.1		6		D							5	186.5	1.5
616	4	3.4	1.0	0	0		6		D							4	187.8	1.2
621	5	4.5	1.4	0	0		5		D							3	189.3	1.5

Fig. 1. Typical rock mechanics core log.

89-G-03

CURRAGH RESOURCES INC.

Page 1 of ____

DIAMOND DRILL CORE LOG

Date: _____

Hole Number: 89G-03

Reference Fabric Orientation Diagram:

Project: 1989 GRUM FILL-IN

Location: _____

Claim: _____

~~UTM~~ Terr. Plane Co-ords.: 6904470.807 N 5910.88N

592480.217 E 2467.4E

Grid Co-ords: 58W / 5S

Elevation: 1257.265

All symmetry determinations looking

Total Depth: 717 feet 218.5 m

NW with S2 dipping

Inclination: -90° VERTICAL

SW with dip azimuth ____.

Purpose: Test Champ Zone

Reason hole Terminated: Successfully intersected ore

Logged by: L PIGAGE

Date(s) Logged: June 1-4, 1989

Drilling Contractor: ARCTIC DIAMOND DRILLING

CORE Size	From	To
NW	0'	44'
NQ	42'	717'

Collar Cased and Capped: No

Hole Cemented: No

Steel down Hole: No

Assay Lab: _____

Certificate No's: _____

Started: June 28/89 Completed: June 30/89

C.R.I. 1987 E - 1

CURRAGH RESOURCES INC.

Diamond Drill Core Log

DDH 89G-03 (2–8)

Date: _____ Logged By: _____

Code	Drillhole	Elevation	Northing	Easting	Units (feet/metres)	R.F.E.	
1	2–8	10–16	17–24	25–32	34–39	41–42	
T	89G-03						

Code	Drillhole	Depth	Zenith Angle	True Azimuth	Comments
1	2–8	10–14	22–26	28–32	34–56
R	89G-03	0 0	-90.0	0.0	AT COLLAR
R		1 2 3 1 / 4 0 4 0	-88.5	5 8 / 3 1 8 . 0	SPERRY SUN
R		1 6 8 9 / 5 5 4 0	-86.0	9 2 8 / 0 4 5 . 0	SPERRY SUN
R		2 4 6 / 7 0 4 0	-84.0	8 0 8 / 0 3 3 . 0	SPERRY SUN
R			.	.	
R			.	.	
R			.	.	
R			.	.	
R			.	.	
R			.	.	
R			.	.	
R			.	.	
R			.	.	
R			.	.	
R			.	.	
R			.	.	
R			.	.	
R			.	.	
R			.	.	
R			.	.	
R			.	.	
R			.	.	
R			.	.	

Code	Drillhole	Comments, Errant Remarks, Snivellings and / or Lewd Suggestions
1	2–8	10–56

DDH 89G-03
2 8
FEET

CURRAGH RESOURCES INC.
Lithologic Log

Date: July 1/89 Logged By: LCP

Code	From	To	Recov.	No.	Unit	Description
1	10 14	16 20	22 24	26 28	30 34	35
	10.0	14.20		11	1*	TRIGONED - NO RECOVERY
		17.8				Bedrock @ 24' CASING EXTENDED TO 44'
	14.20	14.95		12	STA16	→ (SAO) (SD ?) 85:15: TRACE
	12.8	15.1				TOI contains a few rounded pebbles of SC and IDAB
						Moderately soft, noncalcareous, PS2-foliated to gently CS2-foliated, dark gray phyllite S2 surfaces shiny very dark grey but does not strongly mark fingers. Minor scattered small pyrite porphyroblasts S2 surfaces look greasy and unweathered. Interval 1' contains well-developed pale grey speckled calcite-quartz siltstone bands up to 3cm thick. These define S1 microlithons within S2.
						At 46' have 4cm of pale olive green, homogeneous soft, slightly dolomitic chloritic phyllite. Marginal contacts sharp parallel S2.
						Core very poor choppy & broken / 42-46' only 2' core / 46-EOI recovery looks reasonable.
	14.95	18.10		13	STB\$121	
	15.1	24.3				Moderately soft, CS2-foliated, medium grey to medium-dark grey, thinly banded phyllite. S2 surfaces stickly grey and do not mark fingers. Well developed carbonate-qtz bands up to 4cm thick parallel S2 and containing inbound laminae defining S1 microlithons. Response to 10% HCl slight to moderate suggesting dolomitic or slightly calcareous. Marginal contacts gradational into darker phyllites.
						Core very broken & poor choppy w/ poor recovery TOI - 53 recovery 2%/ 53-56 2' core / 56-58 2' core / 58-63 3.5' core / 63-67 0.2' core / 67-73 1.5' core / 73-77 1.5' core / 77- EOI 0.6' core.

DDH 89G-03

CURRAGH RESOURCES INC.
Lithologic Log

Page 4

Date: July 1/89 Logged By: LCP

Code	From	To	Recov.	No.	Unit	Description
1	10 14	16 20	22 24	26 28	30 34	35
	80.0	127.5		4	5A6±$	(5D$) MINOR
	24.3	38.9				Moderately soft to moderately hard, dominantly PS2-foliated, noncalcareous, black to very dark grey phyllite. S2 surfaces shiny dark grey and do not mark fingers. Pyrite as thin streaks parallel S2 and as small subhedral grains up to 0.5 cm across. Subhedral grains have qtz pressure shadows in S2 fltn. Locally can see minor small black cherty nodules flattened in S2 fltn w/ small pressure shadow around them.
						Locally contains thin, medium grey qtz-dolomite interbands. Intervals w/ interbands not as dark grey overall giving unit a thick bedded appearance in shades of dark grey.
						Core very broken and poker chippy w/ overall poor recovery. Only minor gouge present. TOI - 81.5 recovery OK / 81.5-84.5 2' core / 84.5-88.5 3' core / 88.5-92.0 3' core / 92.0-93.5 recovery OK / 93.5-102 recovery OK / 102-109.5 4' core / 109.5-114 3.5' core / 114-118.5 0.2' core / 118.5-120 0.8' core / 120-127 2.5' core / 127-EOI recovery OK. Major core loss 114-127
L	127.5	140.0		5	5B20	[5A3]
	38.9	42.7				Moderately soft, calcareous, CS2-foliated, dark grey phyllite. S2 surfaces are very dark grey and do not strongly mark fingers. Overall colour medium grey because of larger proportions of qtz-calcite siltstone bands. Siltstone bands nicely preserve S1 microlithons. Siltstone bands also contain black cherty nodules strongly elongate in So/S1 foliation.
						Core very broken & poker chippy. 127-131 3' core / 131-137 1' core / 137-143 6' core. Major core loss for interval 131-137.

DDH 89G-03

CURRAGH RESOURCES INC.
Lithologic Log

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Date: July 1/89 Logged By: LCP

Code	From	To	Recov.	No.	Unit	Description
	1400	1775		6	5A$±1	
	42.7	59.1				Very dark grey, dominantly PS2-foliated, moderately hard and locally moderately soft, slightly dolomitic, carbonaceous phyllite. Minor py in thin streak parallel S2 and as small subhedral grains. Contains lighter grey qtz-dolomite siltstone bands which nicely preserve S1 microlithons. S2 surfaces are very dark grey to shiny black and mark fingers. Core very broken, rubbly and poker chippy. TOI-143 3' core / 143-153.5 4.5' core / 153.5-156.5 3' core / 156.5-161 4.5' core / 161-177 5.5' core. Major core loss 143-153 and 161-177. Gouge & fault zone @ EOI. Upper contact gouge 25/000 wrt S2
L	1775	1850		7	5B2$	
	54.1	56.4				Moderately soft to soft, CS2-foliated, dolomitic, medium dark grey, thinly banded phyllite. Contains 1-3 cm thick qtz-dolomite bands which display S1 microlithons. S2 surfaces steely grey. Softer and lighter coloured than overlying unit. Extensive qtz-dolomite veins and veinlets in interval. Rock moderately to very broken. TOI-178.5 mod gouge. Upper contact 25/000 wrt S2, lower contact parallel S2. S2 disturbed & much steeper than usual. 178.5-183 core mod broken, recovery OK / 183-EOI. Core very broken & rubbly - no gouge. Recovery OK.
	1850	1938		8	5A6&10	MINOR
	56.4	59.1				Moderately hard, noncalcareous, CS2-foliated, dark grey to black thinly banded phyllite. S1 microlithons displayed by medium grey qtz siltstone bands up to 4cm thick. One short interval of 10cm is moderately calcareous. Minor anhedral scattered pyrite grains. Upper & lower contacts gradational. Core mod broken w/ OK recovery

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CURRAGH RESOURCES INC.
Lithologic Log

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Date: July 2/89 Logged By: LCP

Code	From	To	Recov.	No.	Unit	Description
1	10 14	16 20	22 24	26 28	30 34	35
	1938	1965		9	5A$	
	59.1	59.9				Moderately soft, CS2 foliated, very dark grey to black, dolomitic, thinly banded phyllite. S2 surfaces shiny black and mark fingers. Dolomite w/ qtz in medium grey siltstone band up to 1cm thick. Siltstone band shows well-developed S1 microlithons. Core mod brken w/ excellent recovery.
	1965	2735		10	5B26	
	59.9	83.4				Moderately soft, thinly banded, CS2 foliated, dark grey, noncalcareous phyllite. S1 microlithons defined weakens thin medium grey, qtz siltstone band ranging up to 3-4 cm in thickness. Also some colour banding in shades of grey to dark grey parallel S2. S2 surfaces are steely grey. Minor small irregular porphyroblasts of pyrite and pyrrhotite. Both cross-cutting and crudely S2-foliaform white bull qtz veins w/ lesser carbonate. TOI - 205 mod brken & poker chippy. Recovery ok // 205-236 mod brken w/ good recovery // 236-245 mod brken w/ short 5-10cm gouge intvl @ ≈ 242 associated w/ qtz vein. Recovery 236-245 7' only // 246-272.5 mod brken w/ minor incipient gouge. Recovery ok // 272.5 EOI gouge w/ good recovery. Upper contact parallel S2 and lower contact Cont in rubble at drill run end
	2735	2830		11	4E1@8	(4C3@15)(5D4$ [4L$ 6WEAK]) (10Q0) 30:30:35:05
	83.4	86.3				Poorly defined variety of ore types. Massive S= is thinly banded, brassy yellow, fine-grained pyrite. Contains beads and elongate lenses of black magnetite and subhedral tan enhedral elongate in S2 fltn. Locally minor thin streaks of reddish sphalerite and galena. Pyrite content 95%. Locally qtz content increases to make as thinly banded where to medium grey

DDH 89G-03
2 8

CURRAGH RESOURCES INC.
Lithologic Log

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Date: July 2/89 Logged By: HP

Code	From	To	Recov.	No.	Unit	Description
1	10 14	16 20	22 24	26 28	30 34	35
						hard qtzite w/ thin bands of pyrite up to 2cm thick. Locally qtzite also has minor pale tan ankerite as angular grains. Magnetite not present in qtzose intervals
						Interbanded is slightly calcareous (i.e. ankeritic) pale cream soft muscovite phyllite PS2-foliated Very fissile compared to ores S2 surfaces are silvery cream locally contains minor thin pyrite streaks parallel S1 Marginal contacts both sharp and gradational
						Interval contains steep fracturing oriented 10/290 wrt S2 Fractures up to 1cm wide. Locally totally weathered out for vuggy core. Locally contains extremely soft bright bluish green mica/clay mineral. Fractures locally also have extensive sphaerite chalcopyrite
						Core mod. broken. Incipient gouge associated w/ 4L. Recovery looks OK
						Estimated grade 1-3% (Pb+Zn) — especially w/ dilution by 4L
L	2813 0	2911 8		1 12	4E8±16	± $
	86.3	86.9				Fine-grained, moderately hard, PS2-foliated, brassy yellow pyrite. Magnetite as small streaks and blebs parallel S2 foliation locally slightly dolomitic w/ dolomite as small specks disseminated in matrix. Thinly banded w/ 1-5mm bands defined by slight porosity due to recessive weathering of carbonate therefore slightly porous Contains minor 1-2cm thick bands which are baritic and contain galena & honey-coloured sphalerite. Estimated grade 3% (Pb+Zn) or less.
						TOI - 289 mod. broken w/ good recovery
						289 - EOI Mod. broken w/ good recovery Steep fracture going down core axis Some open spaces along fracture due to weathering Some minor bxa developed on margins of fracture
						Lower contact sharp between 4E & 4A

DDH 89G-03
2 8

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Date: July 2/89 Logged By: LCP

Code	From	To	Recov.	No.	Unit	Description
1	10 14	16 20	22 24	26 28	30 34	35
	2918	3007		13	4A01	
	88.9	91.7				Hard, CS2-foliated, moderately pyritic, medium grey quartzite. Ribbon-banding constitutes 60-80% of unit. Pyrite content 15-20% Estimated (Pb+Zn) less than 1% Pyrite disseminated as tiny grains in pale qtz "ribbons" and as diffuse bands parallel S2. S2 surfaces are sooty to shiny black and mark fingers.
						Core very broken & locally rubbly - especially along fractures going vertically down core axis. Bxa developed along fracture margins - locally core has open spaces in fractures. Lower contact has contact between 4A & 4E displaced along fracture. Recovery good
	3007	3071		14	4E$	±8 MINOR
	91.7	93.6				Moderately hard, PS2-foliated, fine-grained, brassy yellow pyrite. Slightly porous as thin bands weather recessively w/ small holes. Locally also contains angular clasts up to 1cm across of pale cream dolomite. Near top of interval have large fine-grained magnetite blebs elongate in S2 fltn. Minor qtz lenses. - lenses contain minor splashy chalcopyrite in thin xcutting fractures. Locally compositional banding is steeper than S2 - probably S1. Pyrite content 90%
						Core slightly broken w/ excellent recovery. Steep fractures go down core axis Some open spaces along the fractures.
	3071	3108		15	4C01	(4D30) 65:35 [4L124]
	93.6	94.7				Major unit is pale off-white, thinly banded, slightly pyritic, noncalcareous qtzite. Banding on 0.5-1.0cm scale w/ alternating qtzite and pale green silver muscovite. S2 surfaces silvery pale green. Pyrite content 5% Minor sphal + gal w/ pyrite in thin bands. Estimated grade 2% (Pb+Zn)

DDH 89G-103
2 8

CURRAGH RESOURCES INC.
Lithologic Log

Date: July 2/89 Logged By: LCP

Code	From	To	Recov.	No.	Unit	Description
1	10 14	16 20	22 24	26 28	30 34	35
	131017	131108		115		Near TOI and EOI have 10-30 cm bands of very pyritic gtzite. Abundant reddish sphalerite associated w/ pyrite. No massive present in these intervals
	94.1	94.9				Pyrite content 30-40% Estimated grade 7% Pb+Zn.
	95.6					Core very broken & rubbly Steep fractures along core axis Some open spaces along the fractures Recovery OK
	131108	131190		116	4 E 8 1 $ 16	
	94.7	97.2				Moderately hard, thinly banded, slightly dolomitic, brassy yellow pyrite. Banding defined by thin slightly green intervals and by thin slightly baritic intervals Baritic intervals appear to contain honey-coloured sphalerite. Non baritic intervals fine grained & contain thin magnetite streaks parallel S1 and S2. Estimated grade 4% Pb+Zn — although this interval may improve because of baritic material Pyrite content 85-95% Core mod broken w/ some rubbly intervals because of breakage along steep fractures. Some open spaces along fractures as well as slightly friable & friable in spots Recovery OK
	131190	131400		117	4 A 10 ± $	±3 (460 ± 3 ± 5 ± $) 70:30
	97.2	101.8				Dominantly a hard, medium grey, pyritic gtzite Banding defined by fine grained medium grey slightly pyritic bands interlayered w/ white, pyritic gtzite. S2 surfaces are dark grey and do not strongly mark fingers. locally slightly dolomitic w/ small tan dolomite grains in thin bands. Grey intervals 10-40% Pyrite content ranges 5-40%. Similar to Unit # 13 (291.8 - 300.7). Contains less carbonaceous intervals up to 1m thick. More pyritic portions have diffuse py bands parallel S2 and S1. In one core gtzite contains 1cm bands of micaceous gtz phyllite. — possible altered metabasite nearby? S1 steep — parallel to subparallel down core axis Strong fractures w/ open

DDH BGG-03
2 8

CURRAGH RESOURCES INC.
Lithologic Log

Date: July 2/04 Logged By: KCP

Code	From	To	Recov.	No.	Unit	Description
1	10 14	16 20	22 24	26 28	30 34	35
	131119 0	131314 0		117		spaces along the fractures Estimated grade less than 1% Pb + Zn
	97.2	101.8				Incipient bxiation along the steep fractures
	131314 0	131317 5		118	4E101$1	
	101.8	102.9				Moderately hard, PS2-foliated, thinly banded, brassy yellow, fine grained pyrite. Dolomite as angular tan clasts and disseminated locally in matrix. Banding defined by thin slightly porous intervals as carbonate weathers recessively. Estimated Pb+Zn = 4% Estimated pyrite content 90% Core slightly broken w/ good recovery
	131317 5	131517 0		119	4E1$1±18	(4L247) 70:30
	102.9	108.1				Moderately hard, PS2-foliated, thinly banded, brassy yellow fine grained pyrite Dolomite as angular tan clasts and disseminated in matrix. Clasts are up to 2 cm across. locally porous weathering in thin bands parallel S2 because carbonate weathers out. Near EOI have large clumps of rounded, fine grained magnetite. Magnetite associated w/ sphalerite, galena, dolomite. Diameter locally of 5 cm. Interbanded pale grey muscovite-qtz phyllite w/ thin bands of pyrite, sphalerite, galena, qtz. S2 surfaces silvery sheen. Micaceous intervals very soft & green intervals very hard locally also contains dolomite clasts/plate and bands. These intervals are up to 60 cm thick. Contacts w/ pyrite seem gradational Pyrite content 10-20% Estimated grade 4% Pb+Zn overall Core mod. to very broken Rubbly w/ intervals consisting of muscovite phyllite. Steep fractures parallel core axis. Some open spaces and incipient bxiation along the fractures. Recovery OK

DDH 89G-03
2 8

CURRAGH RESOURCES INC.
Lithologic Log

Date: July 2/89 Logged By: LCP

Code	From	To	Recov.	No.	Unit	Description
1	10 14	16 20	22 24	26 28	30 34	35
	315.6	316.0		20	5D614	@ MINOR [4LO @ MINOR]
	108.8	109.7				Moderately soft, PS2-foliated, pale silvery cream muscovite phyllite. S2 surfaces silvery white. At EOI have pale tan veinlets on S2 consisting of ankerite(?) Texture of veinlets strongly reminiscent of 5D qtz-calcite veinlets. Otherwise unit is monotonous. Core very broken & rubbly w/ good recovery
	316.0	316.5		21	4E1$	[4K $]
	109.7	111.1				Brassy yellow, fine-grained, PS2-foliated pyritic sulphides. Abundant fine disseminated dolomite in matrix. Also has large tan dolomite clasts up to 2 cm across. Upper contact gradational w/ 4K - some interbanding w/ 1cm muscovitic micaceous intervals. Sulphides locally slightly process from sulphides weathering out. Also green specs along steep features going down core axis. Estimated grade 4% (Pb+Zn). Core mod broken w/ short rubble @ 361.5' Recovery OK
	316.5	317.0		22	4E1$	BXA
	111.1	113.4				Same general rock type as last Unit #21 (360-364.5) Consists of bxx and gouge locally bxx cemented by dolomite. Also contains streaks and irregular infillings of blueish green clay(?) mineral. Near 370' bxx is sulphide or sulphide pyrite. Clasts can be up to 5cm across. TOI - 370 BXA Core mod broken w/ good recovery 370 - EOI Gouge Good recovery although core locally rubbly. Internal angle on gouge about 15° core axis. Matrix of gouge does contain qtz 11.6. Probably not a significant fault because similar rock types on both sides

DDH Sept-03
2 8

CURRAGH RESOURCES INC.
Lithologic Log

Date: July 2/89 Logged By: LCP

Code	From	To	Recov.	No.	Unit	Description
1	10 14	16 20	22 24	26 28	30 34	35
	131712 0	131715 5		1213	41K1$1114	CHLORITE [4D $3 CHLORITE]
	113.4	114.5				PS2- foliated, moderately soft to moderately hard, dolomitic pyritic sulphides. Dolomite pale tans and occurs both as disseminated fine grains in matrix and as subangular clasts up to 2 cm across. S2 parallel bands of quartz w/ bands and lenses of dark green soft chlorite. Sphal-gal disseminated w/ pyrite in compositional bands parallel S2. Pyrite content 50-70%. Estimated Pb+Zn = 6% combined. Rock is a fence-sitter in terms of mineralogy and composition. S2 surfaces locally a patchy chlorite green. Slightly porous w/ thin bands weathering recessively. Core very bitten to 116.5. Recovery OK.
	131715 5	131717 8		1214	41E1$181	POROUS MINOR
	114.5	115.2				PS2-foliated, fine-grained, slightly magnetic, slightly to moderately dolomitic, brassy yellow pyrite. Dolomite occurs as fine disseminated grains in matrix and as subangular clasts and bands up to 1cm across. Especially in upper portion slightly porous w/ thin bands parallel S2 weathering recessively due to carbonate. Magnetite as large subrounded, fine-grained blebs consisting dominantly of magnetite-quartz. Estimated (Pb+Zn) grade 4%. Core intact w/ excellent recovery. Pyrite content 90%. Dolomite content 5%.
	131717 8	131813 0		1215	41C101$1	→ (4D38 $ MINOR X HE$4)(420) 50:46:02:02
	115.2	116.7				Top of interval is moderately hard to hard, CS2-foliated, pale grey, slightly pyritic pyrite. Slightly calcareous in 20% HCl. Pyrite forms diffuse bands outlining S1 microlithons and parallel S2. Contains thin bands dominantly muscovite which are pale cream. S2 surfaces pyrite grey w/ patchy silvery muscovite. Grades 2% Pb+Zn. Pyrite content 10-15%.
						Down DDH go through short interval of interbanded PS2-foliated slightly dolomitic pyritic sulphides and pale cream to pale green muscovite-chlorite phyllite.

DDH 89G-03

CURRAGH RESOURCES INC.
Lithologic Log

Date: July 4/89 Logged By: [illegible]

Code	From	To	Recov.	No.	Unit	Description
1	10 14	16 20	22 24	26 28	30 34	35
	3777.8	3830		25		Phyllite is moderately soft, noncalcareous. Medium green colour patchily developed
	~~116.7~~	116.7				through unit. Pyritic sulphides similar to last unit only w/ more grade.
	115.2					In 4E estimated Pb+Zn = 6%
						Lowermost unit is hard, very slightly dolomitic, PS2-foliated, pyritic qtzite.
						Magnetite as small streaks and blebs generally elongate parallel S2. Some
						pale grey qtzose lenses within more pyritic intervals. Locally dark green from
						disseminated chlorite. Pyrite content 35% (Pb+Zn) = 6%
						Interval intact w/ excellent recovery
	3830	3857		26	4L0S6	WEAK
	116.7	117.6				Moderately soft, pale grey w/ slight greenish tinge, slightly to moderately dolomitic,
						CS2-foliated, muscovite-chlorite phyllite. S2 surfaces silvery white. Dolomite
						occurs as thin silty bands defining S2 fltn and S1 microlithons. Upper
						contact sharp against qtzite & lower contact rapidly gradational into pale
						grey phyllites. Probably altered 5B (?) Core mod. brken w/ good recovery
	3857	3895		27	5B20	
	117.6	118.7				Dark grey, CS2-foliated, moderately soft, calcareous phyllite. S2 surfaces shiny
						dark grey to black but do not strongly mark fingers. Abundant medium grey
						qtz-calcite siltstone bands define S1 and S2 surfaces. Only very minor
						disseminated fine pyrite in siltstone bands. Upper contact gradational and lower
						contact sharp against light grey phyllite. Core mod. brken w/ good recovery
	3895	4160		28	5B07	B10 (5D0)
	118.7	126.8				Moderately soft, PS2-foliated to weakly CS2-foliated, calcareous, pale grey phyllite.
						Cut surface has greenish tinge when wet. Also locally developed purplish hue from

DDH 2 , 8

CURRAGH RESOURCES INC.

Lithologic Log

Date: July 4/89 Logged By: LCP

Code	From	To	Recov.	No.	Unit	Description
1	10 14	16 20	22 24	26 28	30 34	35
	131819 5	141160		1219		Disseminated biotite – especially near calcareous siltstone bands. Calcite associated
	118.7	126.8				w/ qtz as thin silky bands parallel S2. S2 surfaces are silvery, shiny
						grey. Lower contact gradational w/o darker grey phyllite.
						Interval 400.2 – 406.2 is moderately soft, calcareous, PS2-foliated, pale olive
						green, chlorite phyllite. Abundant thin white qtz-calcite veinlets parallel S2
						foliation. S2 surfaces silvery white. Upper & lower contacts poorly defined –
						appear to be gradational. Core slightly broken w/ good recovery
	141160	141295		1310	5B10217	B10
	126.8	130.9				Moderately soft, PS2-foliated, medium grey, thinly banded, calcareous phyllite. S2 surfaces
						are silvery to shiny grey. Calcite-qtz-biotite form siltstone bands parallel S2 up to
						2cm thick. Biotite disseminated as brown grains. Phyllitic portion of cut surface
						has medium green hue when wet. Both upper & lower contacts gradational.
						Core intact w/ excellent recovery
	141295	141314 0		1311	5B12101	B10
	130.9	132.3				Soft, CS2-foliated, dark grey, thinly banded calcareous phyllite. S2 surfaces are
						very dark shiny grey but do not mark fingers. Calcite-qtz-biotite ± pyrite as
						thin medium grey bands parallel S1 and S2. Core slightly broken w/ excellent
						recovery. Both upper & lower contacts appear gradational
	141314 0	141412 0		1312	N1C101	→ (NDOB ± $ X 5F6) 30:70: TRACE
	132.3	134.2				Uppermost 2' is hard, pale grey, slightly pyritic qtzite. Minor thin bands of
						fine pyrite w/ lesser galena + galena parallel S2. Pyrite ~5% S2 surfaces
						patchily silvery w/ muscovite. One spot contains small pale pink garnet. Looks
						like altered & silicified phyllite

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CURRAGH RESOURCES INC.
Lithologic Log

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Date: July 4/89 Logged By: LCP

Code	From	To	Recov.	No.	Unit	Description
1	10 14	16 20	22 24	26 28	30 34	35
						Majority of interval consists of pale green qtzite w/ 1-5 cm bands of disseminated pyrite ± galena ± sphalerite. Locally bands also contain magnetite. Locally unit moderately to slightly dolomitic. S2 surfaces silvery green from patchily developed muscovite. Pyrite content 25% Py > sphal + ga. Estimated grade about 6% (Pb + Zn). Unit contains thin interbands of noncalcareous, soft, homogeneous, PS2-foliated dark green chlorite phyllite. Possibly forms metabasite (?) Intervals up to 10cm long
						Core mod. broken w/ good recovery
	4420	4461		33	4E#±4	(5C$7)
	134.7	135				Fine-grained, PS2-foliated, brassy yellow pyritic sulphides. Uppermost & lowermost portions of interval have moderate amts of calcite disseminated in matrix of 4E. 4E locally banded w/ 5-10 cm thick deep reddish-brown sphalerite rich intervals. Pyrite content 90% Estimated overall (Pb+Zn) = 4-6%
						In centre of interval have 1.5' thick strongly banded, dolomitic, metabasite. Striped between dark green chlorite and pale grey-white dolomite. Both PS2- and CS2-foliated. Marginal contacts sharp parallel S2. Lower down within pyritic 4E have 1.5 cm rounded clasts of 5C7 - S2 fltn in clast is randomly oriented - i.e. not parallel PS2
						Core intact w/ good recovery
	4461	4505		34	4C5	→ (4A0) TRACE
	136	137.3				Hard, pale grey, noncalcareous qtzite. Moderately pyrite w/ diffuse thin bands of py parallel S2 and skeletal network of fine py along incipient fractures. Py content 10% Contains thin dark grey carbonaceous laminae parallel S2 fltn. S2 surfaces are dark shiny grey. These locally fade out to uniform grey qtzite. Overall estimated Pb + Zn

DDH SVC-03 (2 of 8)

CURRAGH RESOURCES INC.
Lithologic Log

Date: July 4/89 Logged By: LCP

Code	From	To	Recov.	No.	Unit	Description
1	10 14	16 20	22 24	26 28	30 34	35
						grade estimated at < 2% Bottom 10cm is dark grey, PS2-foliated, very calcareous HA w/ only minor gtz-py ribbon banding Sphalerite > py in the gtz- 5" bands S2 surfaces dark shiny grey Core intact w/ excellent recovery.
	141510.5	141530		1315	4E1101	
	137.3	138.1				Fine grained, noncalcareous, PS2-foliated, homogeneous, pale brassy yellow pyritic sulphides Totally barren. Contains irregular subhedral gtz-clasts scattered throughout unit Pyrite content 85% One large dolomite clast up to 2cm across has weathered out recessively. Core intact w/ excellent recovery
	141530	141611.7		1316	4L1L1214	8 $ [4C 38 $ MICACEOUS]
	138.1	140.7				Background rock type is moderately hard to hard, PS2-foliated, pale green to grey muscovite-chlorite-gtz gtzite or siliceous phyllite locally dolomitic w/ dolomite disseminated in thin beds & in matrix. In some spots can see small pale pink garnets. "Overprinting" this have thick bands of fine-grained, thinly banded pyrite w/ streaks & bands of magnetite and minor sphalerite + galena. Pyritic intervals extend for 30-40 cm Overall pyrite content 35% Estimated grade 2-4% (Pb+Zn) S2 surfaces gtzose w/ patchy muscovite & patchy pyrite. Core intact - recovery good
	141611.7	141618.7		1317	4LD1314.5	(5A196 ± #) 70:30
	140.7	142.9				Dark brassy yellow, hard, PS2-foliated, slightly dolomitic, very pyritic gtzite. Pyrite content denotes thick compositional bands parallel S2. Also has thin bands defined by reddish sphalerite content and thin white muscovite-rich zones. Dolomite disseminated in matrix and as larger subangular clasts. Estimated grade 10-11 % (Pb+Zn) Contains interbeds of hard, black, pyritic, CS2-foliated phyllite. Generally noncalcareous but locally very calcareous. S2 surfaces black and strongly wavy fingers. Contacts

DDH 84G-03

CURRAGH RESOURCES INC.
Lithologic Log

Date: July 4/89 Logged By: LCP

Code	From	To	Recov.	No.	Unit	Description
1	10 14	16 20	22 24	26 28	30 34	35
						between the 2 rock types sharp parallel S2. S2 fold hinge @ 467.5 Carbonaceous siliceous phyllite approaches 4A but doesn't have enough silicification or ribbon banding texture. Interbands up to 50cm thick
						TOI - 470.2 very poker chippy and fissile along S2 Recovery OK
						470.2 - EOI Core intact w/ excellent recovery
	4687	4800		38	5A$9	±1 (4L17 ±4) 60:40
	142.9	146.3				Moderately hard, CS2-foliated, dolomitic, black phyllite. S2 surfaces shiny black and strongly mark fingers. Dolomite w/ qtz in thin siltstone bands parallel S2 and defining S1 microlithons. Minor small pyrrhotite grains scattered through phyllite.
						Contains highly altered interbands of pale grey, hard, dolomitic, muscovite qtzite. Pyrrhotite as skeletal grains & infillings forming diffuse compositional bands parallel S2. S2 surfaces silvery from muscovite locally it has 5-6% (Pb+Zn) Overall grade 1-3% (Pb+Zn) Marginal contacts generally sharp w/ 5A Pyrrhotite 20-30% of 4L Minor cpy as fracture infillings. Po-rich 4L up to 60cm thick. Can also po as massive rcutting fracture infillings
						Core intact — recovery excellent.
	4800	4870		39	5A$1	
	146.3	148.4				Moderately soft, CS2-foliated, slightly dolomitic, thinly banded, black phyllite. S2 surfaces shiny black and poorly mark fingers. Abundant medium grey qtz-dolomite compositional bands define S1 and S2. Fine-grained pyrrhotite disseminated largely in the silty bands. Lower contact gradational into lighter phyllite w/ much fewer siltstone bands. Core mod broken w/ good recovery

DDH 89-G-03

CURRAGH RESOURCES INC.

Lithologic Log

Date: July 4/89 Logged By: LCP

Code	From	To	Recov.	No.	Unit	Description
	141817 0	141917 2		1410	51A1891	±1 (4L187) 90:10
	118.4	151.5				Dark grey to black, CS2-foliated, moderately soft to hard, slightly dolomitic, thinly banded phyllite. S2 surfaces shiny black and poorly mark fingers. Contains scattered grains and irregular stringers of fine-grained pyrrhotite. Typically phyllite in pyrrhotite intervals is bleached to pale grey muscovite-qtz phyllite. Locally bleached phyllite occurs as clasts within almost massive pyrrhotite. Pyrrhotite-rich interbands are up to 20 cm thick. Carbonaceous phyllite locally has small black chert nodules.
	141917 2	151120		1411	41D3141879	
	151.5	156.1				Medium to dark grey, PS2-foliated, hard, pyritic and pyrrhotitic qtzite. Thinly banded w/ bands defining PS2. Bands marked by pyrite, pyrrhotite, fine magnetite, dolomite, and muscovite. S2 surface qtzite grey w/ patchy muscovite. Splashy minor chalcopyrite on xcutting fractures. Grade varies but lower around 9-11% Pb+Zn. Pyrite + pyrrhotite content 35% Py ≈ equal to pyrrhotite. Core intact w/ excellent recovery.
	151120 0	151192		1412	41D1891817	(4A4) [4L124887] 65:35
	156.1	198.3				Similar to last unit #41 (497.2-512) Medium grey, moderately hard, PS2-foliated muscovite qtzite to siliceous muscovite-qtz phyllite. Thin bands of dolomite define S1 and S2. Minor magnetite in thin blebs elongate along S2. Py ≫ po w/ pyrite content ≈ 15%. Estimated Pb+Zn: 7% Py in diffuse bands up to 10 cm thick. S2 surfaces silvery from muscovite. Minor bio as thin selvages to calcite veinlets. Contains interbeds of slightly pyritic, hard, ribbon-banded, carbonaceous qtzite. Noncalcareous. Disseminated fine sphalerite gives estimated grade of 6% (Pb+Zn). No pyrrhotite. Ribbon banding very thin — well-developed CS2-fabric. Core intact w/ excellent recovery.

DDH 89G-03

CURRAGH RESOURCES INC.
Lithologic Log

Date: July 4/89 Logged By: LCP

Code	From	To	Recov.	No.	Unit	Description
1	10 14	16 20	22 24	26 28	30 34	35
	5119 2	5129 2		43	4D3417	8$9
	158.3	161.3				Similar to other qtzose units immediately up the hole. Thinly banded, dark medium grey, PS2-foliated, slightly dolomitic muscovite qtzite. S2 surfaces patchily silvery from muscovite. Sulphides + magnetite as thin diffuse bands parallel S2. Py content 30% Po << py. Estimated (Pb+Zn) = 10-11% Cpy as splashing fracture infillings at high angle to S2. Could readily be considered an altered and veined phyllite. Core intact w/ excellent recovery
	5129 2	5312 0		44	4A01	
	161.3	162.2				Hard, dark grey, CS2-foliated qtzite. S2 surfaces sooty black and strongly mark fingers. Ribbon-banding w/ qtz-py-sphal about 20% of unit. Py content 5%. Estimated grade from fine-reddish sphalerite 1-2% (Pb+Zn). Py associated w/ white ribbon-qtz. Core slightly poker chippy. Recovery excellent
	5312 0	5319 4		45	4D3818$7	(4C$7)(5A61$) 70:25:05 [4L1248$7 (5A61$)]
	162.2	164.4				Similar to previous units. Moderately hard, thinly banded, slightly dolomitic, pyritic, muscovite qtzite to muscovite-qtz siliceous phyllite. Py associated w/ magnetite, sphalerite, galena in thin diffuse bands parallel S2. Dolomite disseminated in matrix and as subangular clasts. Pyrite content generally 40%. Estimated grade 8-9% (Pb+Zn). One 50cm interval is hard, only slightly pyritic muscovite-qtz phyllite. Near EOI have 25cm interband of 5A (next unit) — due to folding. Core intact — recovery excellent. Overall appearance make strong case for silicified and bleached host phyllite as original rock for this unit. Alteration presumably related to hydrothermal activity.

DDH SYG-03-2 8

CURRAGH RESOURCES INC.
Lithologic Log

Date: July 4/09 Logged By: CLP

Code	From	To	Recov.	No.	Unit	Description
1	10 14	16 20	22 24	26 28	30 34	35
	151319.4	151520		1416	51A161	±1 ± 0 (SD6 ±0) MINOR [SB26 ±1 ±0]
	161.4	168.2				Moderately soft to moderately hard, dark grey, noncalcareous, PS2-foliated phyllite. Contains one short interval which is calcareous and CS2-foliated. S2 surfaces are dark steely grey and do not strongly mark fingers. Minor irregular stringers of po generally elongate parallel S2. Contains 1-2cm bands of pale olive green, soft, homogeneous, locally calcareous phyllite. Marginal contacts between the two units are sharp parallel S1. Upper contact of entire interval = sharp. Core slightly broken w/ good recovery.
	151520	151811.5		1417	51A101 11	MINOR
	168.2	177.2				Moderately hard, very dark grey, calcareous, CS2-foliated phyllite. S2 surfaces dark steely grey to black and locally strongly mark fingers. Minor small rounded black chalky nodules noted. CS2-fabric defined by medium dark grey pts-calcite siltstone bands and laminae. Irregular stringers po elongate in S2. Locally po "holey" because of weathering out of carbonate. Core mod. broken w/ good recovery.
	151811.5	161012.5		1418	51B1216I	"CALC-SILICATE" (SD41) TRACE
	177.2	183.6				Moderately soft, noncalcareous, PS2-foliated, dark grey phyllite. S2 surfaces are dark steely grey and do not mark fingers. Thinly banded w/ dark grey, slightly coarser grained siltstone bands up to 5cm thick. Silty bands have disseminated dark greens actinolite (?). Very minor thin interbeds of beige-olive, soft, homogeneous, slightly dolomitic chlorite-muscovite phyllite. These are only up to 2cm thick. Core mod. broken w/ good recovery. Minor small po stringers parallel S2.

DDH 89G-03

CURRAGH RESOURCES INC.
Lithologic Log

Date: July 4/89 Logged By: LCP

Code	From	To	Recov.	No.	Unit	Description
1	10 14	16 20	22 24	26 28	30 34	35
	6025	6105		49	5B26	GOUGE
	183.6	186.1				Moderately soft, PS2-foliated, noncalcareous, dark grey phyllite. S2 surfaces steely grey and do not strongly mark fingers. No compositional banding readily visible. Core very gouged and rubbly. Recovery about 95%. Upper contact of gouge parallel S2 = 60/000. Lower contact steeper than S2. 35/000 wrt S2. Probably not major fault because similar unit on each side
	6105	6200		50	5B26	
	186.1	189				Moderately soft, dark grey, noncalcareous, PS2-foliated phyllite. Vaguely banded in shades of dark grey. S2 surfaces steely grey and do not mark fingers strongly. Minor thin po stringers parallel S2. Core mod. to slightly broken w/ good recovery
	6200	6660		51	5A61	
	189	203				Moderately hard, dark grey to black, PS2-foliated, noncalcareous phyllite. Minor thin compositional banding noted w/ slightly lighter grey qtzose siltstone bands. Minor scattered, black, subrounded "cherty" nodules. S2 surfaces are sooty black and mark the fingers.
						TOI - 656 Core very poker chippy w/ small rubbly intervals - recovery OK
						656 - 657 very broken & rubbly - recovery OK
						657 - 660 very broken - only 1' core recovered
						660 - 664.5 very poker chippy w/ 40% gouge. Recovery OK
						664.5 - EOI very poker chippy. Recovery OK

DDH 89G-03

CURRAGH RESOURCES INC.
Lithologic Log

Date: July 4/89 Logged By: LCP

Code	From	To	Recov.	No.	Unit	Description
1	10 14	16 20	22 24	26 28	30 34	35
	16660	16815		52	5B261	
	203	207.7				Same as Unit # 50 (610.5-620) Soft, medium dark grey, PS2-foliated, noncalcareous phyllite. S2 surfaces dark silvery grey. Vaguely poorly defined compositional banding in shades of grey. Core very poker chippy. Small gouge intervals about 5-10cm thick. Recovery looks OK. About 5-10% gouge.
	16815	16895		53	5A611	
	207.7	210.2				Moderately hard to hard, black, PS2-foliated, noncalcareous phyllite. Thinly banded w/ streaky white qtz parallel S2. S2 surfaces shiny black and strongly mark fingers. Core very broken and rubbly w/ about 30% gouges in 5-10cm intervals. Recovery looks good.
	16895	17090		54	5A	GOUGE DOAL LAKE FAULT
	210.2	216.1				Dark grey, locally calcareous, mud gouge. Contains clasts/fragments of vein qtz, vein calcite, 5D4 - pale tan altered chloritic phyllite. Recovery looks good. Upper contact looks parallel S2 in rubble // lower contact 54/000 wrt S2 - looks slightly steeper than S2.
	17090	17170		55	3G091	
	216.1	218.5				Moderately soft, PS2-foliated, medium dark grey, noncalcareous phyllite. Thinly banded w/ 1-3cm thick slightly coarser grained qtzose intervals. Overall unit has a spotted/streaked appearance - a silty appearance. S2 surfaces are silvery medium grey. Core slightly broken w/ good recovery. — EOH —

DDH 89-6-03 (2 8)

CURRAGH RESOURCES INC.
Structural Log

Page 1 of 2

Date: June 27/89 Logged By: A. Reznik.

Code	From	To	Feature	Sym	S_0 Dip	S_0 Direct.	S_1 Dip	S_1 Direct.	S_2 Dip	S_2 Direct	Description
1	10 14	16 20	22 24	26	28	32	34	38	40	44	
	15.1	1496	CS2	S			33	010	63		micaceous fltns & compos banding // S2
	26.4	1865	PS2	-			T	T	64		" " " " "
	30.2	1990	PS2	-			T	T	67		" " " " "
	43.9	1440	CS2	S			27	337	58		micaceous fltns & compos banding define S2
	53.3	1750	CS2	S			28	010	71		" " " "
	58.8	1930	CS2	S			26	000	73		" " " "
	63.5	2083	CS2	M			02	T	79		" " " "
	70.9	2325	CS2	S			27	321	74		micaceous fltns & compositional banding
	75.4	2475	CS2	S			24	010	80		fold hinge present; micaceous fltns present & compositional banding
	79.2	2600	CS2	S			30	334	85		compositional banding & micaceous foliations present
	86.3	2830	PS2	-			T	T	62		S2 defined by Py & S*'s
	92.4	3030	PS2	-			T	T	83		" " " " "
	95.1	3120	PS2	-			T	T	41		" " " " "
30 X 14	100.6	3310	CS2	S			44	250	69		S2 def'nd by Py & S*'s & fold hinge present nearby
	108.5	356	PS2	-			T	T	77		S2 DEFINED BY PYRITE BANDING
	110.3	362	PS2	-			T	T	69		" "
	118.3	388	CS2	S			22	000	68		DEFINED BY MICACEOUS FOLIATION & COMPOSITIONAL BANDING
	124.4	408	CS2	M			09	303	66		" SURFACE ", CRENULATION CLEAVAGE ON S2
	124.4	408	S2								FOLD HINGE 408
	131.4	431	CS2	-			08	270	79		DEFINED BY MICACEOUS FOLIATION AND COMPOSITIONAL BANDING
	135.3	444	CS2	-			17	000	84		COMPOSITIONAL LAYERING DEFINED BY CHLORITE LAMINAE AND SILTSTONE BANDING
	140.5	461	PS2				T	T	58		DEFINED BY PYRITE BANDING
	147.8	485	CS2	S			22	000	69		MICACEOUS FOLIATION AND PYRITE BANDING
	150.9	495	CS2	-			10	000	64		MICACEOUS FOLIATION AND COMPOSITIONAL LAYERING DEFINED BY SILTSTONE BANDS
	156.4	513	CS2	M			15	000	65		" " "
			S2								Fold Hinge 513
	165.2	542	CS2	-			09	292	71		" "
			S2								FOLD HINGE 542
	168.6	553	CS2	Z			20	180	68		" "
	172.2	565	CS2	Z			20	180	75		" "
	182.0	597	PS2	-			T	T	46		micaceous fltn & comp. banding (siltstone)
	187.1	614	PS2	-			T	T	84		" "
	191.4	628	CS2	S			09	347	58		S2 DEFINED BY PYRITE BANDING
	196.9	646	PS2				T	T	77		MICACEOUS FOLIATION & PYRITE BANDING
	204.5	671	PS2				T	T	55		MICACEOUS FOLIATION
	207	679	PS2				T	T	60		" "

DDH 89-G-03 (2 8)

CURRAGH RESOURCES INC.
Structural Log

Date: JULY 2 Logged By: T. KERBER

Code	From	To	Feature	Sym	S_0 Dip Direct.	S_1 Dip Direct.	S_2 Dip Direct	Description
1	10 14	16 20	22 24	26	28 32	34 38	40 44	
		7 1 2	P S 2			+ +	6 0	MICACEOUS + CHLORITIC BANDING DEFINES S2
		2 1 7 0						EOH

DDH 89G-03 CURRAGH RESOURCES INC.

Page _____ of _____

Logged by LCP

ASSAY LOG (SAMPLER'S COPY)

Date _____ Sampled by _____

CODE	FROM	TO	SAMPLE	INTR.	REC (m)	UNIT	DESCRIPTION
1	10 0 14	16 83 20	22 0 26	28 43 30	32 34	36 WASTE 40	42
	83 4 / 2735	84 9 / 2787	41757	52	5 2	4LE18	
	2787	86 2 / 2830	41758	43	1.3 43	4LE18	
	2830	87 9 / 2884	41759	54	1.6 54	4E8±16	slightly porous
	2884	88 9 / 2918	41760	34	1.0 34	4E8±16	slightly porous
	2918	90 5 / 2969	41761	51	1.2 41	4A01	
	2969	91 6 / 3007	41762	38	1.1 38	4A01	
	3007	93 6 / 3071	41763	64	1.9 64	4E$±18	
	3071	94 7 / 3108	41764	37	1.0 34	4C01	
	3108	95 9 / 3148	41765	40	1.2 40	4E8$16	slightly porous
	3148	97 2 / 3190	41766	42	1.3 42	4E8$16	slightly porous
	3190	98 3 / 3225	41767	35	1.1 35	4A01	
	3225	99 4 / 3262	41768	37	1.1 37	4A01	
	3262	100 7 / 3303	41769	41	1.2 41	4A01	slightly porous on fractures
	3303	101 8 / 3340	41770	39	1.0 34	4A01	
	3340	102 9 / 3375	41771	35	1.1 35	4E01$	
	3375	104 2 / 3420	41772	45	1.1 38	4LE$	
	3420	105 7 / 3467	41773	47	1.1 35	4LE$	
	3467	106 7 / 3500	41774	33	1.0 33	4E$	
	3500	107 9 / 3541	41775	41	1.1 36	4E$8	slightly porous
	3541	108 8 / 3570	41776	29	0.9 29	4E$8	slightly porous
	3570	109 7 / 3600	41777	30	0.9 30	5D64	
	3600	111 1 / 3645	41778	45	1.4 45	4K$	
	3645	112 5 / 3692	41779	47	1.4 47	4E$	BXA
	3692	113 4 / 3720	41780	28	0.8 28	4E$	BXA + GOUGE
	3720	114 4 / 3755	41781	35	1.1 35	4K$14	
	3755	115 1 / 3778	41782	23	0.7 23	4E$8	
	3778	116 7 / 3830	41783	52	1.6 52	4CDE	
	116.7	132.3	TO	15.6	T	WASTE	
	132 3 / 4340	133 6 / 4382	41784	42	1.3 42	4CD	
	4382	134 5 / 4420	41785	38	1.1 38	4CD	
	4420	136 0 / 4461	41786	41	1.2 41	4E#±4	(5C)
	4461	137 3 / 4505	41787	44	1.3 44	4C5	
	4505	138 1 / 4530	41788	25	0.8 25	4E10	missing?
	4530	139 3 / 4570	41789	40	1.2 40	4L124	
	4570	140 7 / 4617	41790	47	1.4 47	4L124	
	4617	142 8 / 4687	41791	70	2.1 70	4D34	(5A)

DDH 89G-03 (2–8) CURRAGH RESOURCES INC.

Page _____ of _____

Logged by LCP

ASSAY LOG (SAMPLER'S COPY)

Date _____ Sampled by _____

CODE	FROM	TO	SAMPLE	INTR.	REC (m)	UNIT	DESCRIPTION
1	10–14	16–20	22–26	28–30	32–34	36–40	42
	468.7	471.2 (143.6)	41792	2.5	.8 2.5	5A$9	
	471.2	475.0 (144.8)	41793	3.8	1.1 3.5	4L17	
	475.0	480.0 (146.3)	41794	5.0	1.5 5.0	5A/4L	
→	146.3	151.5	— 0 —	5.2	—	WASTE	
	497.2 (151.5)	502.0 (153.0)	41795	4.8	1.5 4.8	4D34$	
	502.0	507.0 (154.5)	41796	5.0	1.5 5.0	4D34$	
	507.0	512.3 (156.1)	41797	5.3	1.6 5.3	4D34$	
	512.3	515.8 (157.2)	41798	3.5	1.1 3.5	4D$A	
	515.8	519.2 (158.2)	41799	3.4	1.0 3.4	4AD$	
	519.2	524.4 (159.8)	41800	5.2	1.6 5.2	4D347	
	524.4	529.2 (161.3)	41851	4.8	1.5 4.8	4D347	
	529.2	532.0 (162.1)	41852	2.8	0.8 2.8	4A0	
	532.0	539.4 (164.4)	41853	7.4	2.2 7.4	4D38$	
→	164.4	210.5 (0)	— 0 —	54.1	—	WASTE	

PROJECT DDH 86-62 DRILLHOLE NO. _____ COORDINATES: N _____ DATE _____ 19__

LOCATION _____ HOLE SIZE _____ E _____ PAGE 1 of 1

LOGGER _____ INCLINATION _____ ELEVATION _____

PITEAU & ASSOCIATES
GEOTECHNICAL CONSULTANTS
VANCOUVER CALGARY

GEOTECHNICAL CORE LOG

DEPTH (TO)	LENGTH OF RUN	CORE RECOVERY		RQD		HARDNESS	DEGREE OF BREAKAGE		DEGREE OF WEATHERING	ROCK TYPE	BEDDING DIP		BEDDING JOINTS		CROSS JOINTS		COMMENTS	
		LENGTH	%	LENGTH	%		CATEGORY	NO.			DEPTH	ANGLE	NO.	FREQ.	NO.	FREQ.	depth	length
			.5		0										1		14.0	.5
		2	2.1	.15	.7		6								3		16.2	2.1
			.7	.4	.12												17.1	.9
			.5		0										2		17.7	.6
			.9	0	0										1		19.2	1.5
			.03		0												20.4	1.2
		.4	.4		0										2		22.3	1.8
			.9		0										1		24.8	2.6
			.6		0												25.8	.9
88.5	4	2.7	.8	0	0		6		D						1		26.4	27.0 ✱ 1.2
92	3.5		.8		0		6		D						3		28.0	29.0 ✱ 1.1
93.5	1.5	1.2	.4	0	0		6								2		29.5	29.5.4
102		8.5	2.6	2.45	.7		7		E						5		31.1	31.1 2.6
102.5	7.5	4.1	1.2	0	0		5		D						2		33.4	33.4 MDA 2.3
112	9.5	2.8	.8	0	0		6		E						4		34.7	~~34.7~~ 1.4
116.5	4.5	0.2	.1	0	0		6		E						0		36.1	~~36.1~~ 1.4
122	5.5	3.6	.2	0	0		6		E						1		36.6	~~36.6~~ .5
127	7	2	.6	0	0		6		E						2		38.7	~~38.7~~ 2.1
131	4	2.9	.9	0.8	.2		6		E						3		40.0	~~39.9~~ 1.2
137	6	1.1	.3	0	0		6		E						1		41.8	~~41.8~~ 1.8
143	6	1.4	1.4	0.95	.3		6		E						4		43.6	~~43.6~~ 1.8
153.5	10.5	3	.9	0	0		6		E						1		47	~~46.8~~ 3.2
155.5	3	2.4	.7	0.35	.11		6		E						2		47.7	~~47.7~~ .9
161	4.5	3.7	1.1	0.4	.12		6		E						1		49.1	~~49.1~~ 1.4
173	12	1	.3	0.5	.2		6		E						2		52.7	~~52.7~~ 3.7
177	4	3.5	1.1	0	0		6		E						0		54	~~54~~ 1.2
185	8	7.1	2.2	3.2	.9		8		E						4		56.3	~~56.4~~ 2.4
195	12	11	3.0	2.8	.9		8		E						3		59.6	~~59.0~~ 3.2

Fig. 1. Typical rock mechanics core log.

PROJECT DDH 89-22 DRILLHOLE NO. _____ COORDINATES: N _____ DATE _____ 19__

LOCATION _____ HOLE SIZE _____ E _____ PAGE 2 of 4

LOGGER [illegible] INCLINATION _____ ELEVATION _____

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VANCOUVER CALGARY

GEOTECHNICAL CORE LOG

DEPTH (TO)	LENGTH OF RUN	CORE RECOVERY		RQD		HARDNESS	DEGREE OF BREAKAGE		DEGREE OF WEATHERING	ROCK TYPE	BEDDING DIP		BEDDING JOINTS		CROSS JOINTS		Depth COMMENTS	Length
		LENGTH	%	LENGTH	%		CATEGORY	NO.			DEPTH	ANGLE	NO.	FREQ.	NO.	FREQ.		
205	9.5	9.5	2.9	0.35	.1		7		F						3		6 x .5	2.4
215	10	9.9	3.0	1.05	.3		8		F						5		65.5	3
225	10	10	3.0	4.35	1.3		9		E						2		68.6	3
236	11	11	3.1	3.55	1.1		9		E						1		11.9	3.3
245	9	7.3	2.2	1.1	.3		8		F						3		74.1	2.7
255	10	9.75	3.0	5.1	1.6		9		E						4		77.7	3
264.5	9.5	9.5	2.9	1.8	.5		8		E						3		80.6	2.4
273.6	9.5	9.5	2.9	1.45	.4		8		E						4		83.4	2.4
282.5	10	10	3	3.9	1.2		7		F						9		86.4	3
293.5	10	10	3	1.8	.5		8		E						3		89.5	3
303	9.5	9.5	2.9	0.75	.2		7		F						6		92.4	2.7
313	10	10	3	3.55	1.1		8		E						8		95.4	3
317	4	4	1.2	1.45	.4		8		E						3		96.6	1.2
327	10	10	3	4.55	1.4		9		E						9		99.7	3
337	10	10	3	4.2	1.3		9		E						5		102.7	3
344	7	5.7	1.7	2.15	.7		7		F						5		104.8	2.1
351	7	5.8	1.8	2.1	.6		6		F						3		106.9	2.1
360	9	8.3	2.5	1.8	.5		5		F						7		109.7	2.7
370	10	9.5	2.9	4.2	1.3		8		E						4		112.8	3
377	7	7	2.1	1.9	.6		6		E						5		114.9	2.1
387	10	10	3	5.45	1.7		10		E						4		117.9	3
396	9	9	2.7	2.9	.9		7		F						4		120.7	2.7
405	9	8.7	2.7	5.6	1.7		9		E						4		123.4	2.7
415	10	10	3	6	1.8		9		F						3		126.5	3
418.5	3.5	3.2	1.0	1.25	.4		8		E						3		127.6	1.1
421.5	3	2.6	.8	1.9	.6		10		E						1		128.5	.9
431.5	10	10	3	6.9	2.1		9		F						6		131.5	3
441.5	10	10	3	6.4	1.9		8		E						3		134.6	3

Fig. 1. Typical rock mechanics core log.

PROJECT DDH-89-G3.
LOCATION
LOGGER
DRILLHOLE NO.
HOLE SIZE
INCLINATION
COORDINATES: N
E
ELEVATION
DATE 19
PAGE 3 of 4

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GEOTECHNICAL CONSULTANTS
VANCOUVER CALGARY

GEOTECHNICAL CORE LOG

DEPTH (TO)	LENGTH OF RUN	CORE RECOVERY LENGTH	CORE RECOVERY %	RQD LENGTH	RQD %	HARDNESS	DEGREE OF BREAKAGE CATEGORY	DEGREE OF BREAKAGE NO.	DEGREE OF WEATHERING	ROCK TYPE	BEDDING DIP DEPTH	BEDDING DIP ANGLE	BEDDING JOINTS NO.	BEDDING JOINTS FREQ.	CROSS JOINTS NO.	CROSS JOINTS FREQ.	depth COMMENTS	length
[illegible]	1	[illegible]	.3	[illegible]	.2		9		E						1		134.9	.3
[illegible]		[illegible]	3	5.[illegible]	1.7		[illegible]		E						2		137.9	3
457		[illegible]	1.5	4.75	1.2		13		E						0		139.3	2.7
457			2.7	[illegible]	1.9		12		E						0		142.3	2.7
[illegible]		[illegible]	3.0	7.35	2.2		12		D						1		145.4	3
[illegible]		[illegible]	3	5.2	1.6		11		E						0		148.4	3
[illegible]		9.3	2.8	2.9	.9		10		E						2		151.5	3
[illegible]		[illegible]	3.0	7.9	2.4		13		E						2		154.5	3
[illegible]		[illegible]	3.0	8.3	2.5		13		E						0		157.6	3
527	[illegible]	[illegible]	3	8.75	2.7		13		E						1		160.6	3
537		[illegible]	3	6.35	1.9		13		E						2		163.7	3
547		[illegible]	3	[illegible]	1.8		[illegible]		E						2		166.7	3
557		[illegible]	3	[illegible]	1.2		[illegible]		[illegible]						1		169.8	3
[illegible]		[illegible]	3	7.[illegible]	2.4		[illegible]		[illegible]						0		172.8	3
577		[illegible]	3	5.25	1.6		9								1		175.9	3
587		[illegible]	3	3.5	1.1		9		[illegible]						2		178.9	3
[illegible]		[illegible]	3	2.65	.8		9		[illegible]						2		181.9	3
[illegible]		[illegible]	3	2.35	.7		7		[illegible]						2		185.0	3
6095	[illegible]	[illegible]	.6	0	0		1		[illegible]						3		185.8	.8
[illegible]	[illegible]	[illegible]	2.3	3.35	1.0		8		E						0		188.1	2.3
[illegible]	[illegible]	[illegible]	3	0.75	.2		7		E						2		191.1	3
[illegible]	[illegible]	[illegible]	1.8	0.7	.2		7		E						1		192.9	1.8
[illegible]		[illegible]	.9	0	0		6		E						0		194.2	1.2
[illegible]	[illegible]	3	.9	0	0		6		[illegible]						1		195.1	.9
[illegible]	[illegible]	7.6	2.3	1.7	.5		7		E						1		198.1	3
[illegible]	7	7	2.1	0	0		6		E						2		200.2	2.1
[illegible]	3	[illegible]	.3	0	0		[illegible]		E						[illegible]		201.2	.9
[illegible]	4.5	[illegible]	1.2	0	0		5		[illegible]						[illegible]		202.5	1.4

Fig. 1. Typical rock mechanics core log.

PROJECT [illegible] DRILLHOLE NO. _____ COORDINATES: N _____ DATE _____ 19__

LOCATION _____ HOLE SIZE _____ E _____ PAGE 4 of 4

LOGGER _____ INCLINATION _____ ELEVATION _____

PITEAU & ASSOCIATES
GEOTECHNICAL CONSULTANTS
VANCOUVER CALGARY

GEOTECHNICAL CORE LOG

DEPTH (TO)	LENGTH OF RUN	CORE RECOVERY LENGTH	CORE RECOVERY %	RQD LENGTH	RQD %	HARDNESS	DEGREE OF BREAKAGE CATEGORY	DEGREE OF BREAKAGE NO.	DEGREE OF WEATHERING	ROCK TYPE	BEDDING DIP DEPTH	BEDDING DIP ANGLE	BEDDING JOINTS NO.	BEDDING JOINTS FREQ.	CROSS JOINTS NO.	CROSS JOINTS FREQ.	depth COMMENTS	length
[illegible]	[illegible]	[illegible]	1.4	0	0		6		E						1		204.1	1.4
674	[illegible]	[illegible]	1.4	0	0		[illegible]		E						1		205.4	1.4
672	8	[illegible]	2.2	0.35	.1		[illegible]		[illegible]						1		207.9	2.2
7		5	1.5	0	0		[illegible]		[illegible]						0		209.4	1.5
649	3	[illegible]	.8	0	0		6		E						0		210.3	.8
690	[illegible]	[illegible]	1.0	0	0		1		E						1		211.5	1.0
[illegible]		[illegible]	1.1	0	0		[illegible]		E						0		212.7	1.1
[illegible]	[illegible]	[illegible]	2.7	[illegible]	0		1		E						1		215.5	2.6
[illegible]	[illegible]	[illegible]	2.7	[illegible]	.8		7		E						1		218.5	2.6

Fig. 1. Typical rock mechanics core log.

89-G-04

CURRAGH RESOURCES INC. Page 1 of ____

DIAMOND DRILL CORE LOG Date: _____

Hole Number: 89 G-04

Reference Fabric Orientation Diagram:

Project: 1989 Grum Fill-in

Location: _____

Claim: _____

~~Terr.~~ UTM Plane Co-ords.: 6904425.283 N 5789.09 N

592603.287 E 2516.48 E

Grid Co-ords: 54 W / 35

Elevation: 1256.338

All symmetry determinations looking

Total Depth: 267 feet 81.4 m NW with 52 dipping

Inclination: -90° Vertical SW with dip azimuth ____.

Purpose: Test Champ zone mineralization

Reason hole Terminated: Drilled through Dam Lake Fault

Logged by: CV Reed Date(s) Logged: July 4, 1989

Drilling Contractor: Arctic

CORE Size	From	To
NW	0	162
NQ	162	267

Collar Cased and Capped: No

Hole Cemented: No Steel down Hole: No

Assay Lab: _____

Certificate No's: _____

Started: June 30/89 Completed: July 1/89

CURRAGH RESOURCES INC.

Diamond Drill Core Log

DDH 89G-04

Date: _____ Logged By: _____

Code	Drillhole	Elevation	Northing	Easting	Units (feet/metres)	R.F.E.	
	2 8	10 16	17 24	25 32	34 39	41 42	
T							

Code	Drillhole	Depth	Zenith Angle	True Azimuth	Comments
	2 8	10 14	22 26	28 32	34 56
R	89G-04	0	-90.0	0.0	AT COLLAR
R	89G-04	1257.4	-81.5	010 56.3	SPERRY SUN
R			.	.	
R			.	.	
R			.	.	
R			.	.	
R			.	.	
R			.	.	
R			.	.	
R			.	.	
R			.	.	
R			.	.	
R			.	.	
R			.	.	
R			.	.	
R			.	.	
R			.	.	
R			.	.	
R			.	.	
R			.	.	
R			.	.	
R			.	.	
R			.	.	
R			.	.	
R			.	.	

Code	Drillhole	Comments, Errant Remarks, Snivellings and / or Lewd Suggestions
	2 8	10 56
		BEDROCK 1158'

DDH 89G-04

CURRAGH RESOURCES INC.
Lithologic Log

Page 03

Date: July 4/89 Logged By: CVR

Code	From	To	Recov.	No.	Unit	Description
1	10 14	16 20	22 24	26 28	30 34	35
	10	484		1	#1	Overburden cream-tan 10AB 'Anvil Bath granite boulder
		147				fragments largest piece rec'd 11.0". Bottom 2" rec'd is
						cream-tan sandy till.
						Only 3.3' rec'd
	484	1670		2	#1	TRICONED - No RECOVERY - overburden till
	147	509				
	167	1675		3	#1	
	509	511				Cream tan 01B sandy till
						0.6" rec'd
	1675	1723		4	5B6	$ Slightly Weathered
	511	525				Mod⁻ soft, dominately PS2 foliated, light grey to locally
						dark grey, musc phyllite. Contains dolomite in thin qtz-
						siltstone bands which generally are aligned ∥ to S2 and
						locally define microlithons. S2 surfaces are dull light
						grey to locally dark grey. Contains local thin fractures
						infilled w̄ dolomite. Core is slightly weathered along
						fractures. No visible sulphides.
						TOI → 170.9 w̄ broken 4.1' rec'd
						170.9 → EOI rubble, local incipient gouge along
						fractures → not significant fault 1.2' rec'd
	1723	1743		5	5D4#	
	525	531				Mod⁻ soft, pale green + tan striped, altered chloritic phyllite.
						Contains abundant calcite in thin tan-white bands generally

DDH 89G-04
2 8

CURRAGH RESOURCES INC.
Lithologic Log

Date: July 4/89 Logged By: CVA

Code	From	To	Recov.	No.	Unit	Description
1	10 14	16 20	22 24	26 28	30 34	35
						<1/2 cm thick aligned // to Sa. Sa surfaces are pale light green-grey. Contains abundant thin fractures infilled w/ qtz ± calcite ± dolomite.
						Core is m - broken, very good. Margins with medium grey, phyllite sharp // to Sa.
	1 1 7 1 4 3	1 2 1 0 1 0 7		1 6	5 1 B 1 0 2	± $ (5D4#) minor
	1 5 3 3 1	1 6 1 2				Dominate unit is generally PSa foliated, local CSa fabric, mod soft medium to dark grey, mod carbonaceous phyllite. Sa surfaces are medium to locally dark steel grey. Overall unit is darker than average SB. Contain abundant light grey qtz + calcite ± dolomite bands which are generally <3mm thick and dominately define Sa. Locally, thin qtz + calcite ± dol laminations define microlithons. Centered at 180.5 is 5" thick pale green + tan sheared, calcareous altered chloritic phyllite. Margins of band are sharp // to Sa.
						TOI - 177.0 m broken, local incipient gouge along thin fracture 6" core loss.
						177.0 - 194.5 m broken, very good.
						194.5 - EOI rubble only 3.7' rec'd.
						Button contact against ore may be faulted - core recovery too poor to tell.
	1 2 1 0 1 0 7	1 2 1 0 1 3 6		1 7	1 4 1 D 1 0	1 micaceous laminations. (4AO) 70:30
	1 6 1 1 2	1 6 2 1				m band, highly fractured, poorly banded pyritic qtzite. EOI - 201.7 banding is thin, poorly defined by

DDH 89G-04

CURRAGH RESOURCES INC.
Lithologic Log

Page 05

Date: July 4/89 Logged By: CR

Code	From	To	Recov.	No.	Unit	Description
1	10 14	16 20	22 24	26 28	30 34	35
						Py slightly > sph + gal. Sulphides have largely been remobilized into thin tube sheep fractures. Contains local thin micaceous foliations defining S2 - core tends to break along these foliations. Remaining unit loses sph + gal bands and increases in thin black carbonaceous folia. S2 surfaces are dark grey + mark fingers. S= banding is ≈ 15% of 4A volume and is dominately Py.
						Est % Pb + Zn entire interval 4-6%
						Est % Py 20-30%
						Core is v̄ broken, recov O.K.
	2036	2070		018	5A11	± $ minor (5D4*) 80:20
	621	631				TOI → 205.2 is m̄ hard, black, thinly PS2 laminated, siliceous carbonaceous phyllite. S2 surfaces are carbon black and strongly mark fingers. Contains abundant v̄ fine qtz rich laminations aligned ∥ to S2. Laminations locally contain minor interstitial dol.
						205.2 → 205.9 is mod soft pale green + tan PS2 striped altered chloritic phyllite. Contains abundant thin calcite + qtz bands generally < ½ cm thick defining S2. Pale green chl laminations also define S2. Margins of chloritic phyllite are sharp, ∥ to S2.
						205.9 → EOI fragments of 5A described above. Contact w̄ lower massive S= is highly fractured + brecciated. Contact likely faulted - recovery is poor.
						TOI → 205.9 v̄ broken + poker chippy, recov O.K.

DDH 89G-04

CURRAGH RESOURCES INC.
Lithologic Log

Page 06

Date: July 4/89 Logged By: CUR

Code	From	To	Recov.	No.	Unit	Description
1	10 14	16 20	22 24	26 28	30 34	35
						205.9 → EOI 5A Phyllite rubble, only 0.2' rec'd.
	2070	2116		09	4E01	
	631	645				ṽ hard, homogeneous, brassy yellow, moderately siliceous, massive fine grained Py. No visible grade. Contains fine interstitial grey qtz. Est % qtz 10-15%. Contains local, highly fractured, small qtz vein fragments
						TOI → 210.3 rubble due to fracturing 1.9' rec'd.
						210.3 → 211.0 m broken 0.7' rec'd.
						211.0 → EOI rubble 0.6' rec'd.
	2116	2247		10	4A0	± 9 trace.
	645	685				Dark grey → black, thinly PS2 foliated, locally CS2 foliated, ribbon banded carbonaceous qtzite. Ribbon banding generally <1 cm thick + defined by dominate Py + traces of Sph. Py locally remobilized into thin fractures. S2 surfaces are dark grey → black and mark fingers.
						Est % Py ≈ 15-20%
						Est % Pb + Zn 2-3%.
						Top contact against massive S= may be faulted recovery to poor to tell. Bottom contact sharp, // to S2
	2247	2283		11	5A6	± 8 minor ± 9 minor
	685	696				Mod⁻ soft, black, PS2 foliated, carbonaceous phyllite. S2 surfaces carbon black + mark fingers. Contains local qtz ∓ dol bands // to S2 ranging up to 1cm thick. Qtz

DDH 8AG-04

CURRAGH RESOURCES INC.
Lithologic Log

Page 07

Date: July 4/89 Logged By: CVR

Code	From	To	Recov.	No.	Unit	Description
1	10 14	16 20	22 24	26 28	30 34	35
						rich bands contain local minor diss^n fine py
						Unit v̄ broken - poker chippy - recovery O.K.
	2283	2349		12	5B10	±$ ±2 ± GOUGE
	696	716				Light grey to locally dark grey, PS2 foliated, locally
						moderately carbonaceous, musc. phyllite. Contains local thin
						qtz ± dol siltstone bands generally < 3 mm thick aligned //
						to S2.
						TOI → 228.7 - incipient light grey phyllite gouge
						margins // to S2. Recy O.K
						228.7 → 233.0 v̄ broken + poker chippy 3.7' spread out
						rec'd.
						233.0 → EOI rubble, local incipient gouge along
						fractures 1.1' rec'd
	2B49	2370		13	5A6	±$. (4A0) 95:5.
	716	722				Mod^n soft, black, PS2 foliated, carbonaceous phyllite. S2
						surfaces carbon black + strongly marks fingers. Core breaks
						easily along S2. Contains local thin qtz ± dol bands aligned
						// to S2. Largest intact piece 3" long
						Core is poker chippy, recy O.K.
						236.7 → 237.0 is v̄ hard, dark grey → black thinly
						ribbon banded, barren, carbonaceous qtzite same as unit
						# 10. Top margin w̄ phyllite is sharp // to S2
						Bottom margin w̄ semi-massive S^n is sharp. // to S2.

DDH 89G-04

CURRAGH RESOURCES INC.
Lithologic Log

Page 08

Date: July 4/84 Logged By: CVR

Code	From	To	Recov.	No.	Unit	Description
1	10 14	16 20	22 24	26 28	30 34	35
	2370	2401		14	4E0	±1 (4C33 $) 50:50
	722	732				TOI → 238.1 is homogeneous brassy yellow, v̄ hard, barren, locally moderately siliceous, massive pyritic S=. Contains local concentrations of fine interstitial grey qtz.
						238.1 → EOI - Thinly PS2 banded, v̄ hard, pyritic qtzite. Contains abundant interstitial tan-white dolomite in thin qtz rich bands ∥ to S2 Sulphide bands range up to 3cm thick and contain dominate py + minor sph + gal. Local thin bands red-brown sph > py. Top contact w̄ massive S= is brecciated w̄ several large highly fractured tan-white dol clasts ranging up to 5cm ∅ "floating" in massive fine grained py.
						Core is mud broken along steep fracture.
						Est Pb + Zn entire unit 2-4%.
						Recy Good.
	2401	2560		15	5A*	GOUGE DOAL LAKE FAULT
	732	780				v̄ soft, calcareous/dolomitic dark grey → black, muddy to locally flakey carbonaceous gouge. Locally, S2 cleavage is preserved
						240.1' → 248.0' gouge, 1' core loss.
						248.0' → 252.0' gouge recy good
						252.0' → EOI gouge only 2.6' rec'd
	2560	2590		16	4L	* GOUGE [5D4*]? GOUGE.
	780	789				White w̄ slight green tinge, calcareous/dolomitic mud gouge. May be altered + gouged chloritic phyllite

DDH 89G-04

CURRAGH RESOURCES INC.
Lithologic Log

Page 09

Date: July 4/89 Logged By: CVR

Code	From	To	Recov.	No.	Unit	Description
1	10 14	16 20	22 24	26 28	30 34	35
						bottom shear contact 48° to core axis
						Core is gouge, 2.0' rec'd.
	2590	2670		17	5D4	1 - highly fractured - locally gouged. ± 9 minor
	789	810				Buff tan w̄ green tinge, highly altered, soft, dolomitic
						chloritic phyllite. S_2 surfaces are light grey + green and locally
						have white "talcose" coatings. Unit is locally gouged along
						thin fractures related to the Deal Lake fault. Contains
						local minor qtz + fine py stringers aligned // to S_2.
						Abundant dol occurs throughout in thin grey-tan bands
						// to S_2.
						TOI - 259.5 m̄ broken, recy O.K
						259.5 - 263.5 w̄ broken, local thin gouge along fractures
						2.4' spread out rec'd.
						263.5 → EOI rubble, 3.6' rec'd.
						EOH

DDH 89-6-04 (2 / 8)

CURRAGH RESOURCES INC.
Structural Log

Date: JULY 2 Logged By: T KERBER

Code	From	To	Feature	Sym	S_0 Dip Direct.	S_1 Dip Direct.	S_2 Dip Direct	Description
1	10 14	16 20	22 24	26	28 32	34 38	40 44	
	514 9	180	PS2	-		+	65	MICACEOUS FOLIATION DEFINES S2
	561	184	CS2			14 345	80	CHLORITIC BANDS DEFINE S2 COMPOSITIONAL BANDING DEFINES S1
	660	218	PS2			+	88	S2 DEFINES BY MICACEOUS FOLIATION AND PYRITIC BANDING
	679	223	PS2			+	84	" "
	726	239	PS2			T	71	PYRITIC BANDING DEFINES S2
	798	262	PS2			+	66	CHLORITIC FOLIATION AND PYRITE BANDING

DDH 89-04 (2 8) CURRAGH RESOURCES INC. Page ____ of ____

Logged by CUA

ASSAY LOG (SAMPLER'S COPY) Date JULY 4/89 Sampled by ____

CODE	FROM	TO	SAMPLE	INTR.	REC (m)	UNIT	DESCRIPTION
1	10 04	16 61 20	22 — 26	28 61 30	32 — 34	36 WASTE 40	42
	1210 61 27	1210 62 06	411854	129	1.7 123	1 HIDA	
	12106	1210 63 10	411855	34	1.6 120	1 SA 1	± 8 minor (5D4*)
	12107 0	1211 64 56	411856	46	.6 120	1 4 E 0 1 1	
	12111 6	1211 65 80	411857	44	1.3 144	1 4 A 1 0 1	
	12116 0	1212 67 26	411858	46	1.1 137	1 4 A 1 0 1	
	12120 6	1212 68 57	411859	41	1.2 141	1 4 A 1 0 1	
→	1 16 92 5	1 72 2	— 0 —	3.7	—	WASTE	
	12132 0	12138 6	411860	16	.5 116	1 4 E 0 1	± 1 ± 8
	12136	12140 1	411861	15	.4 115	1 4 C 1 3 1 3	8
→	1 13 2	1 91.0	— 0 —	78	—	WASTE	
		EOH					

PROJECT 89-6-04 DRILLHOLE NO. _____ COORDINATES: N _____ DATE July 2 1989

LOCATION _____ HOLE SIZE _____ E _____ PAGE 1 of 1

LOGGER Dawn Herber INCLINATION _____ ELEVATION _____

PITEAU & ASSOCIATES
GEOTECHNICAL CONSULTANTS
VANCOUVER CALGARY

GEOTECHNICAL CORE LOG

DEPTH (TO)	LENGTH OF RUN	CORE RECOVERY		RQD		HARDNESS	DEGREE OF BREAKAGE		DEGREE OF WEATHERING	ROCK TYPE	BEDDING DIP		BEDDING JOINTS		CROSS JOINTS		depth (m) COMMENTS	length (m)
		LENGTH	%	LENGTH	%		CATEGORY	NO.			DEPTH	ANGLE	NO.	FREQ.	NO.	FREQ.		
47		1.2	.5	0.4	.1		6		E						1		14.3	
167	120	1.2	.4	0.3	.1		7		E						3		50.9	36.6
			.6	0	0		7		E						1		51.5	.6
5			2.0	0	0		7		E						1		53.5	2.0
			2.6	1.1	.3		7		E						2		56.4	2.9
			3	0.75	.2		7		E						3		59.4	3
			1.5	0	0		6		E						1		61.9	2.4
		4.3	1.3	0	0		6		E						1		63.4	1.5
			.4	0	0		6		E						0		64.3	0.9
			1.8	0.35	.1		7		E						3		66.1	1.8
	9.5		2.9	0	0		7		E						1		69.0	2.9
23		5	1.4	0	0		6		E						0		70.4	1.4
			1.8	0	0		6		E						0		72.2	1.8
			1.2	1.25	.4		8		E						2		73.4	1.2
			1.8	0	0		1		E						0		75.6	2.1
		3	.9	0	0		1		E						0		76.8	1.2
256		23	.7	0	0		1		E						0		78.0	1.2
			.5	0	0		1		E						0		78.8	0.8
			1.2	0	0		6		E						0		80.3	1.5
			1.1	0	0		6		E						1		81.4	1.1

Fig. 1. Typical rock mechanics core log.

89-G-05

CURRAGH RESOURCES INC.

Page 1 of ____

DIAMOND DRILL CORE LOG

Date: _____

Hole Number: 89G-05

Reference Fabric Orientation Diagram:

Project: 1989 GRUM FILL-IN

Location: _____

Claim: _____

~~Terr.~~ UTM Plane Co-ords.: 6904404.523 N 5788.63 N

592585.072 E 2488.85 E

Grid Co-ords: 5HW / 4S

Elevation: 1251.980

All symmetry determinations looking

Total Depth: 223 feet 68.0 m.

_____ with _____ dipping

Inclination: -90° VERTICAL

_____ with dip azimuth _____.

Purpose: CHAMP ZONE TEST

Reason hole Terminated: DRILLED THROUGH ORE

Logged by: CV REED

Date(s) Logged: July 5, 1989

Drilling Contractor: ARCTIC

CORE Size	From	To
NW	0	160
NQ	160	223

Collar Cased and Capped: No

Hole Cemented: No

Steel down Hole: No

Assay Lab: _____

Certificate No's: _____

Started: July 2/89 Completed: _____

C.R.I. 1987 E - 1

CURRAGH RESOURCES INC.

Diamond Drill Core Log

DDH 89G-05

Date: _____ Logged By: _____

Code	Drillhole	Elevation	Northing	Easting	Units (feet/metres)	R.F.E.	
1	2 8	10 16	17 24	25 32	34 39	41 42	
T							

Code	Drillhole	Depth	Zenith Angle	True Azimuth	Comments
1	2 8	10 14	22 26	28 32	34 56
R		0 0	-90 1 • 0	0 • 0	AT COLLAR
R		1204 b 2 2 0	-87 • 5	013 6 • 0 (8 3 8)	SPIERING ISLAND
R			•	•	
R			•	•	
R			•	•

DDH 89G-05

CURRAGH RESOURCES INC.
Lithologic Log

Page 03

Date: July 5/89 Logged By: CWR

Code	From	To	Recov.	No.	Unit	Description
1	10 14	16 20	22 24	26 28	30 34	35
	0 0	36 3		1	#	TRICONED - NO RECOVERY
		11 6				
	36 3	160		2		Redrilled cream - tan weathered O/B Anvil batholith
	11 6					granitic fragments. Local minor mud-clay fill rec'd
						Largest granite fragment 4" long
	160					
	48 8	164 2		3	4D0	±4 ± $ minor ± 5 minor
		50 0				v̄ hard, PS2 S= banded, moderately pyritic qtzite.
						Banding generally < 1cm thick - defined by dominate Py ± sph +
						gal. Locally, red-brown sph > py. S= bands are 50-
						60% of rock volume contains local minor thin tan dol-
						"clasts" aligned ∥ to S2 contains local minor thin
						black carbonaceous folia also defining S2
						Est. Pb+Zn ranges from 4-12%. Dominately Sph.
						TOI - 160.2 s̄ broken, recry good
						160.2 - 161.2 v̄ broken along steep fracture - recry good.
						161.2 - EOI s̄ broken, recry good
	164 2	167 4		4	4G0	±$ ∓ 1 (4D4) Trace (4L0) Trace.
	50 0	51 0				Dominate unit is yellow - tan homogeneous, locally
						mod- dolomitic massive pyritic/baritic sulphide/sulphate. Contains
						interstitial Ba + Red - brown sph. Locally slightly
						porous due to weathered carbonate. Dolomite occurs
						diss- in local streaks and in small clasts near
						EOI.
						At 167.0 thin 1" band of white "talcose" altered

DDH 89G-05

CURRAGH RESOURCES INC.
Lithologic Log

Page 04

Date: July 5/89 Logged By: CCR

Code	From	To	Recov.	No.	Unit	Description
1	10 14	16 20	22 24	26 28	30 34	35
						muse phyllite. Margin // to S_2. At 167.2, thin 3" band
						of red-brown sphalerite banding pyritic qtzite. Margins //
						to S_2
						Est Pb+Zn entire interval 6-8%, core v̄ broken, recry
						O.K.
	167.4	168.8		5	4L0	
	51.0	51.5				soft, "talcose", white-grey, PS_2 foliated, altered muse
						phyllite. S_2 surface are dull white-grey + have abundant
						white powder coatings. Margins of 4L // to S_2
						Core v̄ broken along S_2. Recry O.K
	168.8	175.5		6	4A4	
	51.5	53.5				Dark grey, v̄ hard, ribbon banded carbonaceous qtzite
						$S^=$ banding generally < 1cm thick and defines S_2. Est
						volume of bands 20-25%. Bands defined by subequal
						qtz + py and lesser Sph ± lesser gal. Locally, in some
						bands, red-brown sph > py. Sulphides also have been remobilized
						into abundant v̄ fine fractures. S_2 surfaces dull dark grey
						to black + mark fingers.
						Est Pb+Zn varies from 5-10% Sph >> Gal.
						Top 8" of unit contains abundant thin micaceous
						foliations.
						TOI - 169.8 rubble due to fractures, recry O.K.
						169.8 - 172.8 m̄ broken, recry good.
						172.8 - EOI v̄ broken along fractures, recry good

DDH 89G-05
2 8

CURRAGH RESOURCES INC.
Lithologic Log

Date: JULY 5/89 Logged By: CLR

Code	From	To	Recov.	No.	Unit	Description
1	10 14	16 20	22 24	26 28	30 34	35
	1175 5	1177 5		17	14LL214	"Stringered"
	1513 5	1541				soft, crumbly, "talcose" white-grey, highly altered mafic phyllite. S2 surfaces have abundant "talc" coatings.
						Unit is highly fractured and contains abundant thin stringers of Py + Sph. Est 7% S= 8-10% dominately Py.
						Margins of phyllite // to S2 - Does not appear to be a fault.
						Core is rubble, 1.4' spread out rec'd.
	1177 5	1186 3		18	14ES	± 4 ± 6 minor ± 8 minor. ± Porous. (4LO) trace.
	514 1	1568				Brass yellow brown, dolomitic, locally high grade, locally slightly baritic, massive pyritic S=. Dolomite occurs in
						broad feathery bands // to S2 - up to 10 cm thick
						and locally in large, irregular highly fractured white-tan "clasts" "floating" in sulphides. "Clasts" range up to
						5cm thick. Clasts locally contain fine grey gtz. Contains
						local thin red-brown bands dominately near TOI
						where Sph > Py
						Unit is locally porous due to weathered carbonate
						In Bottom 5' of unit, magnetite occurs locally in
						thin beaded streaks aligned // to S2.
						Est Pb+Zn ranges from 2 - 10% Overall, ± 6%.
						101 → 178.0 ± broken along fractures, recy O.K
						178.0 → 179.4 ± broken, recy O.K.
						179.4 → 179.6 thin white tan altered mafic phyllite
						band. Margins // to S2. Core rubble, Recy Good

DDH 89G-05

CURRAGH RESOURCES INC.
Lithologic Log

Page 06

Date: JULY 5/89 Logged By: CWR

Code	From	To	Recov.	No.	Unit	Description
1	10 14	16 20	22 24	26 28	30 34	35
						179.6 - 182.5 m̄ broken, recvy good
						182.5 - 184.0 v̄ broken along fractures, recvy good
						184.0 - 185.5 m̄ broken, recvy good
						185.5 - EOI rubble - spread out, recvy O.K
	186 3	193 0		9	4A0	±4 minor ± 9 trace.
	56 8	58 9				v̄ hard, dark grey → black, dominately PS2 foliated, ribbon
						banded carbonaceous qtzite. Qtz-sulphide bands define S2 +
						range up to 4 cm thick. Bands defined by dominate
						Py w̄ local minor concentrations of interstitial red-brown
						sph. Bands are 20-25% of rock volume.
						S2 surfaces dark grey → black, only slightly mark
						fingers. Est % Pb+Zn ranges from 2-6%.
						Core is locally vuggy along steep weathered out fractures
						Contains local splashy CPY in thin fractures.
						TOI → 190.0' m̄ broken, recvy O.K.
						190.0 → EOI v̄ broken along steep fractures. Recvy O.K
	193 0	208 5		10	4A0	(4C3) minor (4L0) minor 98:2:2
	58 9	63 6				Black, v̄ hard, poorly banded, carbonaceous highly fractured qtzite. Qtz S=
						bands are thin, where developed, ∥ to S2, and defined
						by dominate Py w̄ local minor concentrations of interstitial
						red-brown sph. S= bands are ≈ 10-12% of unit
						volume. S2 surfaces are carbon black + strongly mark fingers.
						Core locally vuggy along weathered fractures. Est %
						Pb+Zn 2-3% MAYBE!

DDH 89G-05 (2 8)

CURRAGH RESOURCES INC.
Lithologic Log

Page 07

Date: JULY 5/89 Logged By: CUR

Code	From	To	Recov.	No.	Unit	Description
1	10 14	16 20	22 24	26 28	30 34	35
						Centered at 204.5 is 5" band of soft white grey
						altered phyllite. Margins of band lost in rubble
						207.3 - EOI is v̄ hard, highly thinly fractured, light
						grey pyritic qtzite. Contains only local minor sph in
						thin bands ∥ to S2 near EOI. Margins of qtzite
						lost in rubble. Est % Py in 4C 30-40%
						TOI → 193.5 rubble 0.4' spread out rec'd.
						193.5 → 201.0 v̄ broken along fractures 6.4' rec'd
						201.0 → 205.5 v̄ broken " " 2.9' rec'd
						205.5 → EOI v̄ broken " " 1.6' rec'd.
	2085	2230			5A6	± $ minor (4H0 1 minor) 98:2
	636	680				Mod⁻ soft to locally hard, black, locally siliceous, carbonaceous
						phyllite. S2 surfaces dull carbon black & strongly mark
						fingers. Contains local minor qtz ± dol bands generally <3mm
						thick aligned ∥ to S2. Contains only local minor Py
						infilling thin fractures. Contains local CS2 foliation defined by
						thin qtz-dol microlithons.
						Centered at 208.9 is 6" band of homogeneous
						bronze massive Po. Contains minor interstitial qtz. Sph
						occurs in minor concentration in 1 thin 1/2 cm band
						∥ to S2. Margins of Po sharp, ∥ to S2.
						TOI - 218.2 v̄ broken along S2 1.5' core loss
						218.2 - EOI v̄ broken, local thin rubble & gouge
						rec'd 3.2' rec'd. Not a significant fault.
						EOH

DDH 89-G-05 (2 – 8)

CURRAGH RESOURCES INC.
Structural Log

Date: July 5/89 Logged By: T. Kerber

Code	From	To	Feature	Sym	S_0 Dip Direct.	S_1 Dip Direct.	S_2 Dip Direct	Description
1	10 – 14	16 – 20	22 – 24	26	28 – 32	34 – 38	40 – 44	
		50.0 / 64 0	PS2	-		T T	68	S_2 defined by Sph banding
		52.7 / 73	CS2	S		25 34 4	79	S_2 ∥ to sph. & Py banding
		57.3 / 88	PS2	-		T T	75	S_2 ∥ to Py banding
		64.6 / 212	PS2	-		T T	82	S_2 ∥ to thin Py bands & micaceous fltn.
					EOH			

DDH 89G-P5 (2–8) CURRAGH RESOURCES INC.

Page ____ of ____

Logged by CUR

ASSAY LOG (SAMPLER'S COPY)

Date JULY 5/89 Sampled by ____

CODE	FROM	TO	SAMPLE	INTR.	REC (m)	UNIT	DESCRIPTION
1	10 0 14	16 11.6 20	22 0 26	28 11 30	32 34	36 WASTE 40	42
	11.6	50 0 / 164 2	41862		1.2 40	4D0	
	164 2	51 0 / 167 4	41863	32	.8 26	4G0	± $ ± 1 (4D0) trace.
	167 4	51 4 / 168 8	41864	14	.4 14	4L0	
	168 8	52 3 / 171 5	41865	27	.8 27	4A4	
	171 5	53 5 / 175 5	41866	40	1.2 40	4A4	
	175 5	54 1 / 177 5	41867	20	.6 20	4LR4	"stringered"
	177 5	55 3 / 181 6	41868	41	1.2 41	4E$	± 4
	181 6	56 8 / 186 3	41869	47	1.4 47	4E$	± 4
	186 3	58 1 / 190 6	41870	43	1.3 43	4A0	± 4 minor
	190 6	58 8 / 193 0	41871	24	.7 24	4A0	± 4 minor
	193 0	60 2 / 197 5	41872	45	.9 31	4A0	
	197 5	61 9 / 203 0	41873	55	1.0 33	4A0	
	203 0	63 5 / 208 5	41874	55	.8 28	4A0	
	63 5	68 0	— 0 —	45	—	WASTE	

FOLD

PROJECT _____ DRILLHOLE NO. 896-05 COORDINATES: N _____ DATE _____ 19__

LOCATION GRUH HOLE SIZE _____ E _____ PAGE 1 of 1

LOGGER K. ROBERTS INCLINATION _____ ELEVATION _____

PITEAU & ASSOCIATES
GEOTECHNICAL CONSULTANTS
VANCOUVER CALGARY

GEOTECHNICAL CORE LOG

DEPTH (TO)	LENGTH OF RUN	CORE RECOVERY		RQD		HARDNESS	DEGREE OF BREAKAGE		DEGREE OF WEATHERING	ROCK TYPE	BEDDING DIP		BEDDING JOINTS		CROSS JOINTS		COMMENTS
		LENGTH	%	LENGTH	%		CATEGORY	NO.			DEPTH	ANGLE	NO.	FREQ.	NO.	FREQ.	
37	37	0.6	.2	0			5		E						0		11.3
43	6	0.3	.1	0			5		E						0		1.8
47.3	4	0.5	.1	0			5		E						0		1.2
57.4	10	1.3	.4	0			5		E						0		3.0
165.5	108.5	6.7	2.0	2.15	.6		9		E						7		33.1
172	6.5	6.5	2.0	0			7		E						8		2.0
175.5	3.5	3.5	1.1	1.15	.3		7		E						2		1.1
178	2.5	2.5	.8	0			7		E						2		.2
187	9	9	2.7	2.2	.7		9		E						5		2.7
188	1	0.8	.2	0			7		E						1		.3
191.5	3.5	3.5	1.1	1.7	.5		9		E						2		1.1
193.5	2	2	.6	0			6		E						2		.6
201	7.5	5.8	1.7	0.4	.1		7		E						1		2.3
205.5	4.5	4.0	1.2	0			5		E						1		1.4
212	6.5	5.6	1.7	0			6		E						2		2.0
220	8.0	8.0	2.4	0			6		E						1		2.4
223	3.0	1.6	.5	0			5		E						0		.9
EOH																	

Fig. 1. Typical mechanical core log.

Quick Log

DDH 89G-05
2 8

CURRAGH RESOURCES INC.

Lithologic Log

Page _____ : _____

Date: JULY 3/89 Logged By: CMR

Code	From	To	Recov.	No.	Unit	Description
1	10 14	16 20	22 24	26 28	30 34	35
	0	47.9 1517				O/B
	1517	50.1 1645				4DO ± 4
	1645	51.4 1685				4E ± 6 ± 4 (4L) trace.
	1685	53.5 1755				4AO ± 4
	1755	53.8 1765				4L
	1765	54.3 1780				4G4
	1780	56.8 1865				4E1 ± 8 ± 4 minor ± 8 minor.
	1865	57.4 1883				4C3
	1883	62.8 2060				4AO ± 4 minor
	2060	64.0 2100				4C33 (5A61) (4L) 80:20: trace.
	2110	69.5 2218				5A.
		EOH				

89-G-06

CURRAGH RESOURCES INC.

Page 1 of ____

DIAMOND DRILL CORE LOG

Date: _____

Hole Number: 89G-06

Reference Fabric Orientation Diagram:

Project: GRUM SUMMER 1989

Location: GRUM DEPOSIT

Claim: _____

UTM ~~Terr~~.Plane Co-ords.: 6,904,423.778 N 5850.25 N

592,519.369 E 2458.94 E

Grid Co-ords: 56W / 5S

Elevation: 1253.172

All symmetry determinations looking

Total Depth: 479(ft) 146.0m _____ with _____ dipping

Inclination: -90° VERTICAL _____ with dip azimuth _____.

Purpose: TEST CHAMP ZONE HORIZON

Reason hole Terminated: DRILLED THROUGH ORE — through Fault into SA

Logged by: CV REED

Date(s) Logged: July 5-6, 1989

Drilling Contractor: ARCTIC

Size	CORE From	To
NW	0	_____
NQ	_____	479
_____	_____	_____

Hole Cemented: No Steel down Hole: No

Collar Cased and Capped: No

Assay Lab: _____

Certificate No's: _____

Started: July 3/89 Completed: July 5/89

Bedrock at 56 feet

CURRAGH RESOURCES INC.

Diamond Drill Core Log

DDH 89G-06

Date: _____ Logged By: _____

Code	Drillhole	Elevation	Northing	Easting	Units (feet/metres)	R.F.E.	
	2 8	10 16	17 24	25 32	34 39	41 42	
T							

Code	Drillhole	Depth	Zenith Angle	True Azimuth	Comments
	2 8	10 14	22 26	28 32	34 56
R		0.00	-90.0	0.0	AT COLLAR
R		417.60	-88.0	111.58	SPERRY SUN
R			.	.	
R			.	.	
R			.	.

DDH 89G-06
2 8

CURRAGH RESOURCES INC.
Lithologic Log

Page 03

Date: July 5/89 Logged By: CUR

Code	From	To	Recov.	No.	Unit	Description
1	10 14	16 20	22 24	26 28	30 34	35
	0 0	62 0		1	#	O/B till pebbles + 10AB fragments. Largest piece recovered
		189				2" ϕ.
	62 0	81 5		2	5A1	± $
	189	248				Mod⁻ hard, black, dominately PS2 foliated, locally CS2
						foliated, carbonaceous phyllite. S2 surfaces are shiny carbon
						black + strongly mark fingers. Contains local minor
						subrounded v̄ hard black chert nodules. Nodules generally
						< 2 cm ϕ w̄ long axis aligned // to S2. Contains
						abundant v̄ thin qtz ± dol bands + laminae which
						locally define microlithons. Unit is harder overall than average 5A0
						Core in broken along S2, recy good.
						Bottom 4" of unit is mud gouge - not a significant
						fault.
	81 5	94 7		3	5B226	± $
	248	289				Mod⁻ soft, CS2 foliated, dark grey, noncalcareous, carbonaceous
						phyllite. S2 surfaces dark steely grey. Unit approaches v̄
						closely to 5A except slightly less carbonaceous than above
						unit. Abundant thin qtz ± dol bands + laminations define
						S1 + S2 fabrics. S3? foliation locally defined by re-orientation
						of micas X-cutting S2. general orientation 000/30°
						Some rusty weathering along fracture surfaces
						Core mod⁻ broken, recy good.

DDH 89G-06 (2 8)

CURRAGH RESOURCES INC.
Lithologic Log

Page 04

Date: JULY 5/89 Logged By: CUR.

Code	From	To	Recov.	No.	Unit	Description
1	10 14	16 20	22 24	26 28	30 34	35
	94 7	108 0		4	5A61	± $ minor (5D4*) trace.
	28 9	32 9				Mod⁻ soft to locally hard, black, CS_2 foliated carbonaceous phyllite.
						S_2 surfaces shiny black - weakly marks fingers. Unit is same
						as #2, except local lithon textures more strongly developed.
						Chert nodules are not seen. Unit is locally mod⁻ hard due to
						abundant thin qtz ± dol laminae + bands. Bands generally
						< 3 mm thick aligned ∥ to S_2 + define local lithons.
						Locally weathered along steep fractures.
						TOI → 98.6 $\bar{s}$ broken recovery good.
						98.6 → 101.4 $\bar{v}$ broken along steep fracture, recovery good.
						101.4 → EOI $\bar{s}$ broken, recovery good.
	108 0	140 3		5	5A10	
	32 9	42 8				Black, calcareous, mod⁻ soft, CS_2 foliated carbonaceous phyllite.
						S_2 surfaces dark grey to black + marks fingers. Contains
						local qtz + calcite ± dol bands ∥ to S_2 and in thin
						local microlithons. Bands vary up to 2 cm thick. Local
						development of post-S2 fltn defined by xcutting S2-alignment of micas to form
						closely spaced crenulation cloge. Chert nodules are absent. Contains minor fine py
						infilling local fractures.
						TOI - 114.5 Slightly broken - perfect recovery
						114.5 - 115.0 Very broken w/ local incipient gouge and fractures
						115.0 - EOI Mod. broken along S2
						No faults

DDH 89G-06 (2 / 8)

CURRAGH RESOURCES INC.
Lithologic Log

Date: July 5/89 Logged By: CVR

Code	From	To	Recov.	No.	Unit	Description
1	10 14	16 20	22 24	26 28	30 34	35
	114103	115126		16	15C14#	(5B20) 80:20
	428	465				Dominant unit is mod. soft to very soft, pale olive green & tan-gray striped, very calcareous, altered metabasite. Abundant thin pale green chlorite bands define S2. Calcite ubiquitous outside chlorite bands. May contain Fe-carbonates. S2 surfaces mottled pale green & light grey. Margins w/ phyllite are sharp, parallel S2.
						Intvl 147.1 – 149.2 is med. to dk grey, moderately carbonaceous, calcareous, CS2-foliated phyllite. Contains thin light grey, fine gr-calcite bands and laminae. Bands < 0.5 cm thick. locally thin laminae define microlithons.
						Core slightly broken – recovery good
	115126	116170		17	15B1012	(5C4#) 92:08
	465	509				Mod. soft, locally CS2-foliated, moderately carbonaceous, dark grey, calcareous phyllite. S2 surfaces range medium steel grey to locally black. Black folia only slightly mark fingers. Thin gr-calcite siltstone bands define both S1 and S2. Bands generally < 0.5 cm thick. At 158.6 – 160.5 mod. soft, PS2-foliated, pale green & white-tan striped metabasite. Pale green bands defined by chlorite w/ local bright green "fuchsite" spots. Contains abundant calcite within the white-tan stripes. S2 surfaces are medium grey w/ abundant pale olive green chlorite clots. Margins w/ S3 are sharp parallel S2. Bottom contact of metabasite contains one large, highly fractured, gr-calcite clast – likely part of a broken vein.
						TOI – 159.5 slightly broken w/ good recovery
						159.5 – 161.0 very broken w/ steep fracture w/ good recovery
						161.0 – EOI slightly broken w/ good recovery

DDH 89-06 (2 8)

CURRAGH RESOURCES INC.
Lithologic Log

Date: July 5/89 Logged By: LCP

Code	From	To	Recov.	No.	Unit	Description
	116.70	117.12		18	5IA01	
	50.9	52.2				Black, carbonaceous, calcareous, CS2-foliated phyllite. S2 surfaces dull black & strongly mark fingers. Abundant fine gtz-calcite laminae & bands defining S1 and S2. Locally gtz-calcite lithons contain fine disseminated py. Centred @ 170.0 is 1 inch thick black phyllite gouge w/ margins parallel S2. Core very brken — dominantly along S2. Core recovery good
L	117.12	121.31	0	19	5IA01±1$	→ [5B220 ± $]
	52.2	70.4				Moderately carbonaceous to locally very carbonaceous, CS2-foliated, moderately soft, phyllite. Overall unit loses carbon gradually as go down DDH. Near TOI S2 surfaces carbon black & strongly mark fingers. At EOI S2 surfaces dark steel grey & only slightly mark fingers. Contains abundant thin local gtz-calcite lithons ± dolomite. Fine grained light grey gtz-cc ± dol. bands, range up to 2cm thick and define S2. S3? foliation locally poorly developed over thin intervals - defined by closely spaced, poorly defined crenulation clinge. Intvl 202.3-221.6 contains abundant white pegmatitic, foliaform gtz veins. Veins range in thickness from 2cm - 30cm. Within thin intvl veins make up 20% of unit volume. Margins of veins slightly brkte'd w/ slivers of phyllite. Fractures in gtz veins contain med. greens chlorite, minor fine py and po.
						TOI - 175.5 Very brken recovery good
						175.5 - 179.8 Rubble w/ local minor gouge along fracture Recovery OK
						179.8 - 182.0 Mod. brken - recovery good
						182.0 - 185.0 Very brken along step fracture - recovery good
						185.0 - 192.7 Very brken along S2 - recovery good
						192.7 - 193.2 Soft black carbonaceous phyllite gouge. Only 0.6 feet recovered. Margins not recovered. Not a significant fault
						193.2 - 194.8 Very brken - recovery OK

DDH 89G-06

CURRAGH RESOURCES INC.
Lithologic Log

Date: July 5/89 Logged By: CVR

Code	From	To	Recov.	No.	Unit	Description
1	10 14	16 20	22 24	26 28	30 34	35
						194.8 - 197.2 Mod broken w/ good recovery
						197.2 - 199.5 Very broken on steep fracture - recovery good
						199.5 - EOI Mod. broken on S2 recovery good
	2310	2702		10	5B220	± $
	704	823				Mod soft, dark grey, CS2 foliated, mod carbonaceous phyllite
						Unit is slightly lighter #9. Contains thin qtz ∓ calcite ±
						dolomite siltstone bands + laminae which define S1 + S2
						S2 surfaces are dark steel grey - only slightly mark
						fingers.
						Core m̄ broken, (v̄ broken near end runs) recov
						is good.
	2702	2774		11	5A0	± $
	823	847				Black, mod soft, CS2 foliated, carbonaceous phyllite. S2 surfaces
						carbon black - strongly marks fingers. Contains local thin light
						grey qtz ± calcite ± dolomite bands + laminae. Locally
						these laminae define lithons. Bottom 2" of unit is
						black, v̄ soft, flakey gouge. Contact w̄ lower sulphides
						may be a fault. Contact is 15° to core axis along
						fracture. No orientation possible
						TOI - 275.5 m̄ broken, recov good
						275.5 - 277.5 v̄ broken " " "
						277.5 → EOI flakey gouge. " "

DDH 89G-06 (2 8)

CURRAGH RESOURCES INC.
Lithologic Log

Date: JULY 5/89 Logged By: CVR

Code	From	To	Recov.	No.	Unit	Description
1	10 14	16 20	22 24	26 28	30 34	35
	12717 7	12815 3		112	14E10	±4 ± $ ± Porous (4L24) 95:5
	8497	8699				Poorly banded, fine grained, locally porous, locally dolomitic, massive, 2% sulphide. Top 3.0' of unit contains abundant local highly fractured white-tan dolomite clasts ranging up to 3 cm long - elongate to S2. At 280.0 is highly fractured + brx'd 3" thick foliation gtz + dol vein. Unit is locally porous due to weathering out of carbonate.
						Contains local concentrations of sph + gal in thin streaks and bands aligned // to S2. 290 - 292.5, sulphides are slightly brec'd. Clasts range up to 10 cm ø. Matrix is finer py and >> sph + gal.
						Grade ranges from 2 - 10% Overall grade ± 5%
						In bottom 1.5' of interval, band of moderately soft PS2 foliated, altered grey-green mica > chl phyllite. Contains abundant thin bands + stringers of dominantly fine Py + lesser Sph + Gal
						TOI - 282.0 slightly broken, locally brecciated Recy good
						282.0 - 283.3 v broken along fracture Recy good.
						283.3 - EOI m broken " " Recy good
	12815 3	12913 4		113	14E1416	$ Porous ± 0 minor
	8699	8994				Well banded, porous, dolomitic, moderately barite/pyrite massive 5%. Banding defined by local concentrations of sph, gal, ba. Dolomite occurs locally in broad bands interstitial to sulphides and in local white-tan "clasts" ranging

DDH 89G-06
2 8

CURRAGH RESOURCES INC.
Lithologic Log

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Date: Jul 5/89 Logged By: CVR

Code	From	To	Recov.	No.	Unit	Description
1	10 14	16 20	22 24	26 28	30 34	35
						up to 3 cm along long axis. Banding defined Sz.
						Unit locally porous due to weathering of carbonate.
						Est Pb+Zn 8-10%, TOI - 286.5 ī broken, recy good. 286.5 → EOI
						mod broken, recy good. 100%
						Magnetite occurs in v thin lenticular black streaks // to Sz.
	12 9 3 4	13 1 8 2		1 1 4	1 4 1 G 1 4 1 8	± 8
	89 4	97				Well banded, high grade, dolomitic, massive pyritic / barritic Sz.
						Unit locally magnetic. Banding ranges from ½ cm to 2 cm
						thick, // to Sz defined by abundant bands coloured sph + gal,
						variations in barite + dolomite content. Magnetite occurs
						in thin streak + locally in large "blebs" up to
						2 cm d. Unit locally ī porous in thin dolomitic
						bands ranging up to 1 cm thick // to Sz.
						Est Pb+Zn 12-15%
						Ba content ranges from 5-20%. Local tan
						weathering coatings on fracture surfaces.
						TOI → 307.0 ī broken, very good
						307.0 → 309.5 ī broken along sharp fracture
						309.5 → EOI ī broken, recy good.
	13 1 8 2	13 3 6 4		1 1 5	1 4 1 A 1 0	± 9 trace (460) (5C4+) 90 : 10 : Trace
	97	102.5				Dominate unit is dark grey, CSz foliated, moderately
						carbonaceous, ribbon banded galena. Ribbon banding is thin
						generally < 1 cm defined by dominate Py + gal ±
						minor sph + gal. Banding approx. 20% of unit volume
						Sulphides have been extensively remobilized into thin N-trending

DDH B-90-06

CURRAGH RESOURCES INC.

Lithologic Log

Date: 2-5/89 Logged By: CUR

Code	From	To	Recov.	No.	Unit	Description
	10 14	16 20	22 24	26 28	30 34	35
						fractures, contains local splashy cpy in thin fractures.
						Local ll, in intervals ranging up to 1.5', carbonaceous
						folia are absent. The margins of these noncarbonaceous
						bands are marked by a gradational decrease in power thin
						black carbonaceous folia. All other textures & mineralogy identical to
						the dominate 4A.
						Est % py (entire interval) 15-18%
						Est % Pb+Zn 2-3% MAYBE.
						101 → 325.5 v broken along fractures - recvy good
						325 → FOI m " " - recvy good.
						Centered at 318.7' and + 325.2' are two pale
						olive green + fine stained, calcareous, mod-soft metabasite bands.
						Margins // to S_2.
	13 13 16 4	13 14 18 3		116	H1C101	±5 ± $ ± q trace
	1025	1062				v hard, barren, sulphide banded qtzite. Local
						thin intervals up to 1.5' thick containing paper thin
						carbonaceous folia. Banding defined both S_1 + S_2.
						Bands are fine py ± dolomite ± minor sph + gal. ranges
						up to 2cm thick. Local splashy cpy in fine fractures.
						Est Pb+Zn 2-3%
						Est % py 20-25%.
	13 14 18 3	13 15 10 4		117	141014	± $ minor
	1062	1068				v hard, high grade, locally dolomitic, pyritic qtzite. Banding
						well developed // to S_2 ranges on a scale up to

DDH 89G-06 (2–8)

CURRAGH RESOURCES INC.
Lithologic Log

Page 11

Date: JUL 4 6/89 Logged By: CVR

Code	From	To	Recov.	No.	Unit	Description
1	10–14	16–20	22–24	26–28	30–34	35
						2 cm thick. Bands defined by Qtz+Py > Sph+Gal ± dolomite
						locally, red-brown sph is dominate w̄ in bands.
						Est Pb+Zn % - 8-10%
						Est Fe % - 20%
						Sulphides have been extensively remobilized into late thin
						X-cutting fractures
						Core s̄ broken, recy good.
	3504	3516		18	4G4$	# ± 8 minor
	1068	1072				Tan, brown, well banded, high grade, massive baritic/pyritic
						sulphides. Contains abundant calcite and dolomite interstitial
						to sulphides/sulphates in broad bands // to S2. Bands
						generally < 1/2 cm, defined by variations in honey
						Sph+Gal, barite, pyrite, & calcite/dolomite content. Bands
						are // to S2. Contains local minor magnetite in thin
						discontinuous bands generally < 2mm // to S2. Margins
						of 4G // to S2.
						Est Pb+Zn 12-15%
						Est % Ba 20-25%
						Core s̄ broken, recy good.
	3516	3566		19	4C0	±$ ±7 (4L0) 80:20
	1072	1087				Dominate unit is v̄ hard, Qtz-Sulphide banded, locally
						pyrrhotitic, low grade qtzite. Banding ranges up to
						2 cm thick, defines S2. Bands are 20% of unit
						volume. Bands consist of dominate Py, locally dominate Po

DDH 89G-06
2 8

CURRAGH RESOURCES INC.
Lithologic Log

Date: 2-24-6/89 Logged By: CUR

Code	From	To	Recov.	No.	Unit	Description
1	10 14	16 20	22 24	26 28	30 34	35
						w̄ interstitial qtz ± dol ± minor sph + gal. Sulphides have
						been extensively remobilized into thin late X-cutting fractures.
						Est % Pb + Zn ranges from 2-5%
						TOI → 352.7 mod soft pale grey-green altered musc-chl
						phyllite. Locally phyllite highly fractured. Margins ∥ to
						S_2.
						Entire unit mod broken, recov good.
	3566	3597		210	5316	±2 ± $
	1087	1096				Mod soft, highly fractured, light grey, locally dark grey,
						noncalcareous, locally carbonaceous, locally dolomitic phyllite
						Contains abundant black carbonaceous folia in 1' interval
						centered at 358.5. Contains local thin qtz ± dol siltstone
						laminae which have been disrupted by late fracturing.
						Cream-tan dol infills local thin fractures.
						359.2 - 359.5 is highly fractured, bxa'd peg qtz
						vein. Fractures have been weathered out + are rusty
						orange.
						Core w̄ broken along fractures. Centered at 358.7
						is 2" minor gouge ∥ to S_2.
	3597	3667		211	4010	I $ minor
	1096	1118				v̄ hard, poorly banded, highly fractured, moderately pyritic
						qtzite. S̄ have been extensively re-mobilized into thin
						late fractures. Where banding is preserved, bands defined by
						dominate Py + lesser Sph + Gal. Locally, Sph > Py

DDH 89G-06

CURRAGH RESOURCES INC.
Lithologic Log

Date: JULY 6/89 Logged By: CVR

Code	From	To	Recov.	No.	Unit	Description
1	10 14	16 20	22 24	26 28	30 34	35
						Dolomite occurs locally in thin cream-tan highly fractured "clasts" elongate to S_2.
						Est % Py 15%
						Est % Pb+Zn 5-8% dominately Sph.
						Bottom 1' vuggy due to weathering out of carbonate.
						TOI - 365.7 $\bar{s}$ broken, recvy good.
						365.7 → EOT highly broken along micaceous foliations.
						Recvy for unit is complete.
	366.7	369.1		22	4034	± 5 ± $ minor (4G4 $) 60 : 40
	1118	1125				366.7 → 367.7 $\bar{v}$ high grade mod. hard thickly PS_2 banded massive pyritic/baritic $S^{=}$. Contains abundant dolomite interstitial to sulphides/sulphates. Est % Pb+Zn 14-18%
						367.7 → EOT $\bar{v}$ hard, moderately locally carbonaceous, high grade, moderately pyritic, noncalcareous, qtzite. Contains local paper thin black carbonaceous folia defining S_2. Banding defined by dominate fine Py + interstitial fine qtz and Sphalerite. Top 6" of unit, Sph > Py. Est % Pb +Zn 8%. Est % Py 30-40%. Contains local minor small tan dolomite clasts.
						Core $\bar{m}$ broken, recvy good.
	369.1	374.8		23	4A0	± $ minor (4C0)
	1125	1142				Dominate unit is barren, qtz + py ribbon sulphide banded moderately carbonaceous qtzite. Unit is very hard. Bands generally < ½ cm thick ∥ to S_2. Banding 20% of rock volume.

DDH 89G-06
2 8

CURRAGH RESOURCES INC.
Lithologic Log

Date: JULY 6/89 Logged By: CVR

Code	From	To	Recov.	No.	Unit	Description
1	10 14	16 20	22 24	26 28	30 34	35
						Contain local minor, cream tan dol. clasts ranging up to
						2cm ø 370.9 → 372.4, pale thin carbonaceous folia are
						absent. Unit is ū hard, light grey, moderately pyritic,
						barren glzite. Except for carbon content - unit is same as
						domain Le 4A
						TOI → 372.6 ī broken, very good
						372.6 → FOT ū broken along fractures, contact ū
						lower massive S⁼ is brecciated.
	13 17 14 8	13 18 14 9		124	14 E $16	± 4 ± 8 minor ± 5 minor ± micaceous folia ± Porous, ± Bxa minor
	18 4 2	1 1 7 3				Highly broken + locally brecciated, poorly banded, slightly
						baritic, mod hard massive pyritic S⁼. Contains abundant
						dolomite interstitial to sulphides and within local tan
						highly fractured clasts. Clasts range up to 5cm ø and
						are aligned ū long axis // to S2. Unit contains local
						thin micaceous folia // to S2. At 378.2. unit contains
						small clasts of Sulphides ū carbonaceous folia. May occurs
						locally in ī thin black banded bands // to S2.
						Bands are defined by local concentrations of dol,
						baritic and sphaleritic. Bands are generally < 1/2 cm // to
						S2.
						Est % 14 E varies from 3 to 8 %.
						Bxa likely related to lower Dog Lake fault
						TOI → 376.8 ū broken, very good
						376.8 → TOI ī broken along fractures. Fractures have
						abundant tan - orange weathering coatings. Core good

DDH BGG-06

CURRAGH RESOURCES INC.

Lithologic Log

Date: 26/6/89 Logged By: CVR

Code	From	To	Recov.	No.	Unit	Description
	3847	4122		215	15A16	± S Bxa ± Gouge (4E1 ± S minor)
	1173	1256				Dominate unit is black, noncarbonaceous, highly fractured, broken + brecciated, soft carbonaceous ply like + gouge. In more competent intervals, unit contains thin qtz ± dol silicate laminae + bands defining both S_1 + S_2.
						385.4 → 386.0 is a hard, homogeneous, barren, brassy yellow massive py. Contains minor interstitial grey qtz ± dol top contact 11 to S_2. Bottom contact is brecciated
						This gouge to link to the Deal Lake Fault? - something else?
						Bottom 12.0' of interval is extremely brecciated, soft, and broken
						TOI → 388.0 is broken, 1' core loss
						388.0 → 392.0 rubble ± minor gouge 3.8' core'd out rec'd
						392.0 → 393.5 black, mud carbonaceous gouge only 0.6' rec'd.
						393.5 → 398.5 rubble + bxa 3.4' rec'd
						398.5 → EOI highly broken, rubbly, breccia. Recovery remarkably good.
	4122	4180		216	15B16	2 GOUGE ± BxA.
	1256	1305				Medium to dark grey, soft, moderately carbonaceous, muse ply like mud gouge and breccia. 428.0' marks bottom of major fault zone interval.
						TOI → 416.0 gouge ± bxa 3.3' rec'd.
						416.0 → 418.0 bxa ± gouge 1.3' "
						418.0 → 421.0 gouge ± bxa 1.8' "

DDH B9G-06

CURRAGH RESOURCES INC.
Lithologic Log

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Date: July 6/89 Logged By: CUR

Code	From	To	Recov.	No.	Unit	Description
1	10 14	16 20	22 24	26 28	30 34	35
						421.0 → EOI GOUGE ' 3.7' rec'd.
	4218 0	4418 0		217	5136	2 weak ± GOUGE minor
	1305	1366				Light to medium grey, mod soft dominately PS2
						foliated, noncalcareous, moderately carbonaceous musc phyllite.
						S2 surfaces medium → dark steel grey. Contains local minor
						Po infilling fractures within local thin qtz veins.
						TOI → 433.0 v̄ broken, local thin gouge intervals
						recry good
						433.0 → 438.0 v̄ broken, recry good
						438.0 → 438.5 mud gouge, recry good
						438.5 → 442.2 v̄ broken, recry good
						442.2 → 444.5 rubble w̄ local incipient gouge along
						fractures recry o.k.
						444.5 → 446.6 m̄ broken along S2. Recry good
						446.6 - EOI rubble, 1.3' rec'd.
	4418 0	4519 0		218	5A16	± $ minor
	1366	1400				Black, v̄ carbonaceous, mod soft, thinly PS2 laminated,
						carbonaceous phyllite. S2 surfaces shiny black - strongly mark
						fingers. Unit is noncalcareous, contains minor dol interstitial
						to qtz in local thin siltstone bands. Unit is highly
						broken & fractured. Largest intact piece 4" long
						Core easily breaks along S2
						TOI - 457.0' Rubble. 7.4' spread out rec'd
						457.0' - v̄ broken, recry good

DDH 8.9.G-0.6
2 8

CURRAGH RESOURCES INC.
Lithologic Log

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Date: 2/6/89 Logged By: CVR

Code	From	To	Recov.	No.	Unit	Description
1	10 14	16 20	22 24	26 28	30 34	35
	4590	4640		29	5A0	
	140	1414				mod soft, v̄ carbonaceous, black, locally calcareous phyllite. Contains locally abundant calcite +qtz in bands and laminae defining S_1 + S_2. Bands locally up to 2cm thick. S_2 surfaces are shiny carbon black and strongly mark fingers.
	4640	4670		30	5A	GOUGE
	1414	1423				Black, soft, flakey, carbonaceous phyllite gouge. Cone is GOUGE 2.7' rec'd margins lost in rubble. Dual Lake Fault.
	4670	4790		31	5A6	± Bxa
	1423	1460				Mod soft, thinly PS_2 foliated, black, carbonaceous phyllite. S_2 surfaces black - strongly mark fingers. Unit is noncalcareous. Dolomite is absent except where infilling thin X-cutting fractures. Unit is locally brecciated w̄ incipient gouge forming along fractures. Cone v̄ broken along S_2 + fractures. Very good

EOH

DDH 39-G-06 (2 … 8)

CURRAGH RESOURCES INC.
Structural Log

Date: July 5/89 Logged By: T. Kerber

Code	From	To	Feature	Sym	S_0 Dip Direct.	S_1 Dip Direct.	S_2 Dip Direct	Description
1	10 14	16 20	22 24	26	28 32	34 38	40 44	
		19.5 / 64	CS2	m		48 000	78	S_2 ∥ to micaceous fltn S_1 defined by comp banding
		64						fold hinge
		28.0 / 92	CS2	S		25 318	84	defind by micaceous fltn & compositional banding
		33.8 / 111	CS2	S		09 000	73	" "
		33.5 / 110						fold hinge.
		31.4 / 103						fold hinge.
		38.4 / 126	CS2	m		33 342	84	fold hinge defined by micaceous fltn & compositional band
		27.1 / 89		S			81	S_3 = 14 $S_2 \rightarrow S_3$ = 000 S_3 at least past S_2
		28.3 / 93		–			82	defined by micaceous fltn
								S_3 = 38 $S_2 \rightarrow S_3$ = 268.
								defined by micaceous fltn
								(S_3 or past S_2) seen also as
								lineation on S_2 surface.
		45.4 / 149	CS2	Z		09 180	81	S_2 + S_1 defined by micaceous fltn & comp banding
		49.7 / 163	CS2	S		10 268	79	" " "
		50.6 / 166						Fold Hinge. Phase 2
		47.9 / 157						Fold Hinge
		51.5 / 169						Fold Hinge
		56.4 / 185	CS2	M		18 000	57	S_2 defined by micaceous fltn + Py bands S_1 defin by comp band (fold hinge)
		61.6 / 202	CS2	Z		25 180	75	S_2 & S_1 defn by micaceous fltn + comp banding respectively S_3 seen on S_2 surface
		63.4 / 208						Fold Hinge.
		68.0 / 223	CS2	S		13 297	70	S_2 + S_1 defined by micaceous fltn + comp band. respectively
		75.3 / 247	PS2	–		T T	81	S_2 defined by micaceous fltn
		76.8 / 252	CS2	M		08 180	57	S_2 + S_1 defined by micaceous fltn + comp banding Fold Hinge.
		81.1 / 266	5 CS2	S		21 322	54	" " (no Fold Hinge) "
		90.2 / 296	PS2	–		T T	65	S_2 defined by Py banding.
		97.5 / 320	CS2	Z		38 243	59	defined by Py banding + compostnl banding
		99.4 / 326	CS2	M		12 264	70	S_2 defined by micaceous fltn S_1 by comp ≅ + Py banding Fold Hinge.
		104.2 / 342	PS2	–		T T	61	S_2 defined by Py bands & micaceous fltn
		111.1 / 364	5 PS2	–		T T	45	" " "
		114.3 / 375	PS2	–		T T	43	" " "
		122.1 / 400	5 PS2	–		T T	73	S_2 defined by micaceous fltn.
		130.8 / 429	PS2	–		T T	51	" "
		135.5 / 444	5 PS2	–		T T	36	" "
		140.4 / 605	PS2	–		T T	41	" + thin Py bands "

PROJECT _____ DRILLHOLE NO. 89G-06 COORDINATES: N _____ DATE _____ 19__

LOCATION GRUM HOLE SIZE _____ E _____ PAGE 1 of 3

LOGGER K. ROBERTS INCLINATION _____ ELEVATION _____

PITEAU & ASSOCIATES
GEOTECHNICAL CONSULTANTS
VANCOUVER CALGARY

GEOTECHNICAL CORE LOG

DEPTH (TO)	LENGTH OF RUN	CORE RECOVERY		RQD		HARDNESS	DEGREE OF BREAKAGE		DEGREE OF WEATHERING	ROCK TYPE	BEDDING DIP		BEDDING JOINTS		CROSS JOINTS		% of rock COMMENTS
		LENGTH	%	LENGTH	%		CATEGORY	NO.			DEPTH	ANGLE	NO.	FREQ.	NO.	FREQ.	
19.2	63	63	1.8	.5	0	0		5		E						0		19.2
19.8	65	2.0	2.6	.8	0.35	.1		7		E						0		.6
23.3	76.5	11.5	11.3	3.4	0.70	.2		7		E						3		3.5
26.4	86.5	10.0	10.0	3.0	1.55	.5		7		E						2		3.0
29.4	96.5	10.0	10.0	3.0	1.65	.5		7		E						2		3.0
32.0	105	9.5	9.3	2.8	0.9	.3		7		E						1		2.9
35.4	116	11.0	10.8	3.3	3.0	.9		8		E						2		3.3
38.4	126	10.0	5.6	1.7	2.9	.9		9		E						1		3.0
41.8	130.5	4.5	3.5	1.1	0.8	.2		7		E						0		1.4
44.8	137	7	6.1	1.9	1.55	.5		7		F						0		2.1
47.8	147	10	10	3.0	6.8	2.1		10		F						0		3.0
50.8	157	10	10	3.0	4.55	1.4		10		F						2		3.0
53.9	167	10	10	3.0	3.6	1.1		10		F						2		3.0
62.7	173	6	5.9	1.8	0.4	.1		7		E						1		1.8
63.9	177	4	5.1	1.5	0	0		7		F						0		1.2
66.4	185	8	8	2.4	0.85	.2		7		E						2		2.4
69.1	194	9	7.5	2.3	0.4	.1		7		F						0		2.7
71.0	200	6	6	1.8	0.35	.1		7		E						3		1.8
62.2	204	4	3.5	1.1	0	0		7		F						0		1.2
64.0	210	6	5.9	1.8	0	0		7		F						1		1.8
67.1	[illegible]	[illegible]	8.7	2.6	1.75	.5		8		F						2		3.0
68.6	[illegible]	5	5	1.5	1.0	.3		7		F						0		1.5
70.8.6	230.5	[illegible]	6.1	1.9	0.35	.1		7		E						1		2.0
71.2	233.5	[illegible]	2	.6	0	0		7		F						1		0.6
73.0	[illegible]	[illegible]	5.5	1.7	0	0		7		F						0		1.8
75.0	246	6.5	5.1	1.5	0	0		7		F						0		2.0
78.0	256	10	10	3.0	4.75	1.4		10		F						0		3.0
81.1	[illegible]	10	10	3.0	3.55	1.1		10		F						0		3.0

Typical rock mechanics core log

PROJECT _____ DRILLHOLE NO. 89-606 COORDINATES: N _____ DATE _____ 19__

LOCATION _____ HOLE SIZE _____ E _____ PAGE 2 of 3

LOGGER T. KEEFER INCLINATION _____ ELEVATION _____

PITEAU & ASSOCIATES
GEOTECHNICAL CONSULTANTS
VANCOUVER CALGARY

GEOTECHNICAL CORE LOG

DEPTH (TO)	LENGTH OF RUN	CORE RECOVERY		RQD		HARDNESS	DEGREE OF BREAKAGE		DEGREE OF WEATHERING	ROCK TYPE	BEDDING DIP		BEDDING JOINTS		CROSS JOINTS		ℓ COMMENTS
		LENGTH	%	LENGTH	%		CATEGORY	NO.			DEPTH	ANGLE	NO.	FREQ.	NO.	FREQ.	
83.4	[illegible]	.6	2.4	1.95	.6		7		F						0		2.3
4.7	[illegible]	4.5	4.1	1.2	0	0	6		F						0		1.4
7.5	287	9	9	2.7	3.25	1.0	10		F						3		2.7
0.5	297	10	10	3.0	5.45	1.7	12		F						4		3.0
2.4	303	6	6	1.8	2.85	.9	12		F						2		1.8
5.4	313	10	[illegible]	2.7	2.85	.9	9		F						3		3.0
8.4	323	[illegible]	[illegible]	2.9	3.5	1.1	10		F						2		3.0
11.5	333	10	10	3.0	5.1	1.5	10		F						3		3.0
12.8	339	4	4.2	1.3	1.85	.6	10		F						2		1.2
14.9	344	7	7	2.1	3.7	1.1	10		F						1		2.1
17.9	354	10	[illegible]	3.0	3.9	1.2	10		F						2		3.0
20.9	364	10	10	3.0	4.15	1.3	10		F						3		3.0
24.0	374	10	10	3.0	3.8	1.1	10		F						1		3.0
26.1	381	7	7	2.1	1.35	.4	9		F						3		2.1
28.3	388	7	7.8	2.1	0.75	.2	7		F						2		2.1
30.8	[illegible]	2.5	2.3	0.7	0	0	6		F						0		0.8
32.9	395	4.5	3.7	1.1	0	0	3		F						0		1.4
34.5	3985	3.5	1.5	.5	0	0	3		F						0		1.1
123.4	405	6.5	[illegible]	1.9	2.45	.7	8		F						0		2.0
125.0	411	5	3.5	1.1	0		1		F						0		1.5
126.8	416	6	5.3	1.6	0		1		F						0		1.8
127.4	418	2	1.6	.5	0		1		F						0		.6
128.3	421	3	2.1	.6	0		1		F						0		.9
130.5	428	7	3.8	1.1	0		1		F						0		2.1
132.8	[illegible]	6	5.2	1.6	1.75	.5	9		F						1		1.8
133.7	[illegible]	[illegible]	[illegible]	1.3	0.6	.2	7		F						1		1.4
134.3	[illegible]	2	2	.6	0		7		F						1		.6
135.5	[illegible]	[illegible]	4	1.2	0		6		F						2		1.2

Fig. 1.5 Typical rock mechanics core log.

PROJECT _____ DRILLHOLE NO. 89-606 COORDINATES: N _____ DATE _____ 19__

LOCATION _____ HOLE SIZE _____ E _____ PAGE 3 of 3

LOGGER _____ INCLINATION _____ ELEVATION _____

PITEAU & ASSOCIATES
GEOTECHNICAL CONSULTANTS
VANCOUVER CALGARY

GEOTECHNICAL CORE LOG

DEPTH (TO)	LENGTH OF RUN	CORE RECOVERY		RQD		HARDNESS	DEGREE OF BREAKAGE		DEGREE OF WEATHERING	ROCK TYPE	BEDDING DIP		BEDDING JOINTS		CROSS JOINTS		COMMENTS
		LENGTH	%	LENGTH	%		CATEGORY	NO.			DEPTH	ANGLE	NO.	FREQ.	NO.	FREQ.	
[illegible]	[illegible]	[illegible]	1.1	0.35	.1		6		F						[illegible]		1.1
450.9	[illegible]	[illegible]	.5	[illegible]	[illegible]		6		F						8		0.8
458	[illegible]	[illegible]	2.0	[illegible]			6		F						1		2.3
[illegible]	[illegible]	[illegible]	1.6	0.35	.1		7		F						0		2.0
467	[illegible]	[illegible]	.6	0			5		F						0		.8
469	[illegible]	[illegible]	.6	0			6		F						0		.6
[illegible]	[illegible]	[illegible]	1.0	0			6		F						1		1.1
475.5	[illegible]	[illegible]	.7	0			6		F						0		.9
[illegible]	[illegible]	[illegible]	1.0	0			6		F						0		1.1

Fig. 1 Typical rock mechanics core log.

DDH 89G-06 (2–8)

CURRAGH RESOURCES INC.

Page _____ of _____

Logged by CVR

ASSAY LOG (SAMPLER'S COPY)

Date July 6/89 Sampled by _____

CODE	FROM	TO	SAMPLE	INTR.	REC (m)	UNIT	DESCRIPTION
1	10 0 14	16 84.6 20	22 0 26	28 84 30	32 34	36 WASTE 40	42
	84 6 / 277 7	85 9 / 281 8	41875	4 1	1.2 4 1	4ED	± 4
	281 8	87 0 / 285 3	41876	3 5	1.1 3 5	4ED	± 4 · 4L minor
	285 3	88 1 / 289 2	41877	3 9	1.2 3 9	4E4L	Porous
	289 2	89 4 / 293 4	41878	4 2	1.3 4 2	4E4L	Porous
	293 4	90 7 / 297 6	41879	4 2	1.3 4 2	4G4	$
	297 6	92 3 / 303 0	41880	5 4	1.6 5 4	4G4	$
	303 0	93 9 / 308 0	41881	5 0	1.1 3 5	4G4	$
	308 0	95 5 / 313 3	41882	5 3	1.5 4 9	4G4	$
	313 3	97 0 / 318 2	41883	4 9	1.5 4 9	4G4	$
	318 2	98 5 / 323 3	41884	5 1	1.4 4 6	4A0	(4C) minor
	323 3	100 1 / 328 3	41885	5 0	1.5 5 0	4A0	(4C) minor
	328 3	101 3 / 332 3	41886	4 0	1.2 4 0	4A0	(4C) minor
	332 3	102 5 / 336 4	41887	4 1	1.2 4 1	4A0	(4C) minor
	336 4	103 7 / 340 4	41888	4 0	1.2 4 0	4C0	± 5
	340 4	104 9 / 344 2	41889	3 8	1.1 3 8	4C0	± 5
	344 2	106 2 / 348 3	41890	4 1	1.2 4 1	4C0	± 5
	348 3	106 8 / 350 4	41891	2 1	0.6 2 1	4D4	± $ minor
	350 4	107 2 / 351 6	41892	1 2	0.4 1 2	4G4$	#
	351 6	108 7 / 356 6	41893	5 0	1.5 5 0	4C0	± $ ± 7 (4L) 80:20
	356 6	109 6 / 359 7	41894	3 1	0.9 3 1	5D6	± 2
	359 7	110 9 / 364 0	41895	4 3	1.3 4 3	4D0	± $ minor
	364 0	111 8 / 366 7	41896	2 7	0.8 2 7	4D0	± $
	366 7	112 5 / 369 1	41897	2 4	0.7 2 4	4D34	± 5 ± $ minor
	369 1	114 2 / 374 8	41898	5 7	1.7 5 7	4A0	
	374 8	115 5 / 379 0	41899	4 2	1.3 4 2	4E$6	± 4
	379 0	117 3 / 384 9	41900	5 9	1.4 4 7	4E$6	± 4
	117.3	146.0	— 0 —	28.7	—	WASTE	

FOH

89-G-07

CURRAGH RESOURCES INC.

Page 1 of ____

DIAMOND DRILL CORE LOG

Date: _____

Hole Number: 896-07

Reference Fabric Orientation Diagram:

Project: 1989 GRUM FILL-IN

Location: _____

Claim: _____

UTM ~~Terr.~~ Plane Co-ords.: 6,904,426.504 N 5819.70 N

592,563.087 E 2490.35 E

Grid Co-ords: 55W / 4S

Elevation: 1254.182

All symmetry determinations looking

Total Depth: 357(ft) 108.8 m. _____ with _____ dipping

Inclination: -90° VERTICAL _____ with dip azimuth _____.

Purpose: Test Champ Zone and locate fault displacing ore

Reason hole Terminated: _____

Logged by: _____ Date(s) Logged: _____

Drilling Contractor: ARCTIC

Size	CORE From	To
NW	0	_____
_____	_____	_____
_____	_____	_____

Collar Cased and Capped: _____

Hole Cemented: _____ Steel down Hole: _____

Assay Lab: _____

Certificate No's: _____

Started: _____ Completed: _____

_____

CURRAGH RESOURCES INC.

Diamond Drill Core Log

DDH 89G-07

Date: JULY 9/89 Logged By: GDR

Code	Drillhole	Elevation	Northing	Easting	Units (feet/metres)	R.F.E.	
1	2 8	10 16	17 24	25 32	34 39	41 42	
T	89G-07					52	

Code	Drillhole	Depth FEET	Zenith Angle	True Azimuth	Comments
1	2 8	10 14	22 26	28 32	34 56
R	89G-07	0	-90.0	0.0	AT COLLAR
R	89G-07	1044	-87.5	137.0	SPERRY SUN
R			.	.	
R			.	.	
R			.	.	
R			.	.	
R			.	.	
R			.	.	
R			.	.	
R			.	.	
R			.	.	
R			.	.	
R			.	.	
R			.	.	
R			.	.	
R			.	.	
R			.	.	
R			.	.	
R			.	.	
R			.	.	
R			.	.	
R			.	.	
R			.	.	
R			.	.	
R			.	.	

Code	Drillhole	Comments, Errant Remarks, Snivellings and / or Lewd Suggestions
1	2 8	10 56

DDH 89G-07
2 8

CURRAGH RESOURCES INC.
Lithologic Log

Page 03

Date: July 11/89 Logged By: CUR

Code	From	To	Recov.	No.	Unit	Description
1	10 14	16 20	22 24	26 28	30 34	35
	1010	46.3 1152 0		1	#1	O/B TRICONED - NO RECOVERY
	1152 0	46.6 1153 0		2	#1	Small re-distilled gtzite + O/B phyllite fragments. Largest piece 2" long. 0.7' recd.
	1153 0	49.7 1163 0		3	15B16	2 ± Bxa (4L Bxa Estimate) weathered 50:50 Diamictite unit is most soft, dark-grey to black. PS2 foliated, most carbonaceous, non-calcareous phyllite. S2 surfaces dark grey to black. 153.2 → 158.0? Highly altered? weathered white very soft + powdery phyllite Bxa Upper contact w/ 5B62 is sharp, 18° to core axis Bottom contact is rubble and soft flaky gouge. Only 4.5' of core recovery between 154.0 and 163.0. Most (or all) of the core loss appears to be within this highly altered? gouged? + weathered interval between 153.2 + 158.0 Only 0.5' recd between 153.2 and 158.0. May be significant fault above ore horizon. 159.8 - 161.4 - same unit as 153.2 → 158.0. Top contact of white powdery phyllite gouge is brecciated. Bottom contact lost in rubble. Bottom contact of phyllite against S= is brecciated. Sulphide fragments of contact have local polished slickensided surfaces. A fault likely occurs at the top of the sulphide horizon.

DDH 89G-07

CURRAGH RESOURCES INC.
Lithologic Log

Page 04

Date: July 11/89 Logged By: CUR

Code	From	To	Recov.	No.	Unit	Description
1	10 14	16 20	22 24	26 28	30 34	35
						TOI - 154.2 - Rubble + bxa 0.8' rec'd.
						154.2 → EOI v̄ broken w̄ local rubble + gouge 4.5' rec'd.
	163 0	51.6 169 4		4	4E46S	I Bxa + Porous slightly weathered
						High grade mod soft, slightly weathered, poorly banded, massive
						pyritic S= Banding defined by local concentrations of interstitial
						barite, dolomite, and gph + gal. Contains white powdery oxide coatings on
						local fracture surfaces. Unit locally porous due to weathering
						of carbonate. Top 8" of unit highly broken + brecciated + porous in
						fractures. Some fragments have polished slickensided surface near
						TOI. Bottom 1.5' of interval moderately brecciated.
						Est % Pb+Zn 8-10%
						Est % Ba ranges from 2 - 15%
						TOI → 163.7 Rubble bxa 0.7' spread out rec'd.
						163.7 → 164.7 mod broken, recy good
						164.7 → 166.5 Rubble due to steep fracture, recy O.K
						166.5 → v̄ broken w̄ local bxa, recy good
	169 4	52.8 173 2		5	4AP	(4CO) (4CL Gouge) 33 33 : 33. Mod Weathered.
						Highly mixed unit. Unit is v̄ broken - largest piece
						2" long.
						TOI → 169.7 Small fragments of barren 4A + 4C w̄
						local creamy - tan powder gouge.
						169.7 → 170.5 w̄ hard, black, carbonaceous qtzite fragments
						w̄ local thin incipient soft black carbonaceous gouge along fractures +
						S2. Largest piece 1.5' long. No visible Pb+Zn. Only local

DDH 89G-07 (2 8)

CURRAGH RESOURCES INC.
Lithologic Log

Date: July 11/89 Logged By: CLK

Code	From	To	Recov.	No.	Unit	Description
1	10 14	16 20	22 24	26 28	30 34	35
						poorly developed qtz + py bands // to Sz.
						170.5 → 171.0 Soft, friable, medium-grey phyllite + qtz vein gouge. Margins lost in rubble. 6" rec'd.
						171.0 → EOI highly broken and fractured fragments of 4C and 4A. 4C fragments > 4A. Fragments are locally incipiently gouged and brecciated along fractures. No visible Pb+Zn.
						It is difficult to tell what this interval really is because of poor core condition and everything appears to have been mixed when it came out of the core barrel!
						Unit is likely a breccia w highly broken 4A + 4C fragments + incipient gouge along fractures.
						Est Pb+Zn 1-2%
						Entire interval is rubble. 3.7' rec'd.
11 7 3 2	57.2 1 8 7 5			1016	14A0	mod weathered (4C0) (5C4*) 85 : 14 : TRACE
						med-dark grey mod hard, mod carbonaceous, ribbon banded carbonaceous qtz vein. Unit is highly fractured and broken. Qtz-Py ribbon banding extensively re-mobilized into lots thin fractures. Sz surfaces are dull black + mark fingers. No visible Pb+Zn. Unit mod weathered along fractures
						175.5 → 177 carbon folia are absent.
						Est % Py 15 → 20%.
						At 187.0 thin pale tan green, soft, foliation calcareous altered metabasite band. Band is 2" thick.
						TOI → 175.5 is broken along steep fractures, recy O.K.
						175.5 → 179.5 rubble, recy O.K.

DDH 89G-07

CURRAGH RESOURCES INC.
Lithologic Log

Page 06

Date: July 11/89 Logged By: CVR

Code	From	To	Recov.	No.	Unit	Description
1	10 14	16 20	22 24	26 28	30 34	35
						179.5 → 181.4 v̄ broken, recv, O.K
						181.4 → 184.5 rubble ± incipient gouge. 1.7' rec'd.
						184.5 → EOI v̄ broken along steep fractures, recv, O.K.
	1875	57.6 1890		07	4D0	±$
						Dominate unit is v̄ hard light grey, PS2
						banded, noncarbonaceous qtzite Banding defined by qtz + py ±
						interstitial sph and traces of gal Unit is locally highly
						fractured, S= extensively remobilized into these fractures. Contains
						local thin pale green chl. folia aligned // to S2.
						Dolomite occurs locally in thin tan clasts elongate to S2.
						Est Pb+Zn 6-8%
						Est % Py 10-15%.
						Core mod⁻ broken, recv, good
	1890	59.4 1950		08	4E$	±4±8 mod weathered. NOTE POOR RECOVERY - MISLATCH?
						ONLY 0.8' core rec'd in this interval. Likely a MISLATCH.
						Core is poorly banded, mod⁻ weathered & porous, mod⁻ soft,
						dolomitic massive pyritic S= Banding defined by local
						concentrations of sph + gal. Dol occurs interstitial to S"
						in broad bands and in small, fractured tan weathered
						"clasts". Contains local mag in thin black streaks // to S2
						Est % Pb+Zn 5 → 6% ?
						2 redrilled pieces 0.6' and 0.2' rec'd.

DDH 89G-07

CURRAGH RESOURCES INC.
Lithologic Log

Page 07

Date: JULY 11/89 Logged By: CUR

Code	From	To	Recov.	No.	Unit	Description
1	10 14	16 20	22 24	26 28	30 34	35
	1950	61.7 2025		09	4D0	± $
						Same as unit # 7. Highly broken + fractured, medium
						grade, v̄ hard, locally, dolomitic, qtz-sulphide banded qtzite.
						Est % Pb+Zn 5-6% Dominately Sph. Contains local dol
						in thin tan clasts aligned // to S_2
						TOI → 195.5 Rubble 0.5' rec'd
						195.5 → 198.0 v̄ broken along steep fractures recy OK.
						198.0 → 201.0 rubble spread out - due to intense
						fracturing, recy O.K.
						201.0 → EOI v̄ broken, recy O.K. Contains abundant
						thin pale green chl folia near EOI
	2025	62.7 2056		10	4E4	6 ± 8 minor ± $ minor
						Highly broken and fractured, mod⁻ hard, poorly banded,
						high grade massive pyritic S=. Banding poorly defined
						by local concentrations of sph+gal ± barite Contains local
						minor dol⁻ in thin clasts // to S_2. May occurs locally
						in thin black streaks // to S_2
						Est % Pb+Zn 8-10%
						Core v̄ broken along fractures Last 1.0' feet brecciated
						2.3' recovered.
		1.6.0				
	2056	2165		11	5B6	$ 2 ± Bxn. ± GOUGE. Mod⁻ Weathered.
						Mod⁻ soft, dark grey to locally black, dolomitic, highly fractured,
						and broken, locally brecciated and gouged, noncalcareous, mod⁻
						carbonaceous phyllite.

DDH 89G-07 (2 8)

CURRAGH RESOURCES INC.
Lithologic Log

Date: 24/11/89 Logged By: CUR

Code	From	To	Recov.	No.	Unit	Description
1	10 14	16 20	22 24	26 28	30 34	35
						TOI → 208 flaky SB sauge. 2.0' core loss.
						208 → 208.9 wispy, highly broken, soft, weathered, dark grey SB phyllite breccia. Contains local small highly fractured 4EO clasts. Clasts up to 2 cm ϕ. Recy OK
						208.9 → 216.0 Contains abundant thin tan-orange weathered qtz+dol bands aligned // to S_2. S_2 ῡ steep within this interval ranging from 15 to 30° to core axis. Recy OK
						216.0 → EOI Flaky SB phyllite sauge and breccia. Recy OK
1 2 1 1 6	5	67.9 1 2 1 2 1	2 8	1 1 2	1 4 1 0	P ± 8 minor micaceous & chloritic locally mod⁻ weathered
						ῡ hard, light grey, qtz - S_2 banded, noncarbonaceous qtzite. S_2 within bands are dominate P_y, Sph, locally Sph > P_y, and minor gal. Bands generally < 1cm thick ± defined S_2. Sulphides have been extensively remobilized into thin late fractures. Bands ≤ 15% of unit volume. Contains abundant thin micaceous ± chl folia aligned // to S_2. Top 2.5' of unit mod⁻ weathered along fractures
						Est % PbZn 5 - 8%.
						Est % P_y 10 - 15%.
						TOI → 219.0 ῡ broken along fractures, 1.0' core loss
						219.0 → EOI ῡ broken, very good
1 2 1 2 1	8	68.5 1 2 1 4	9	1 1 3	1 4 1 A	0
						Highly fractured, ῡ hard, dark grey → black, PS_2 foliated carbonaceous qtzite. Contains thin, poorly developed qtz ± P_y ± minor sph bands generally < 1/2 cm thick

DDH 89G-07

CURRAGH RESOURCES INC.
Lithologic Log

Page 09

Date: JULY 11/89 Logged By: CWR

Code	From	To	Recov.	No.	Unit	Description
1	10 14	16 20	22 24	26 28	30 34	35
						aligned ∥ to S2. S2 surfaces are carbon black + mark fingers.
						Est Pb+Zn ≈ 2% Est % Py 10%
						Core v̄ broken, recry O.K.
	2249	69.9 2294		14	4C0	MICACEOUS (4A0) 80:20
						Dominate unit is light grey, thinly PS2 banded, v̄ hard, pyritic qtzite. Bands generally < 1/2 cm wide, defined by qtz + py ± sph ± traces of gal. Banding ≈ 15% of rock volume. Contains abundant thin tan grey micaceous laminations defining S2. Unit is highly fractured. Sulphides have been extensively re-mobilized into late X-cutting fine fractures.
						Est Pb+Zn 2-3%.
						227.5 → 228.7 v̄ hard, dark grey, low grade, thinly qtz + py ribbon banded carbonaceous qtzite. Contacts lost in rubble. S2 surfaces carbon black. Unit locally CS2 foliated
						Est Pb+Zn 2-4%
						Est % Py 8-10%.
						Unit is highly fractured and broken
						TOI → 227.0 mod broken, recry good.
						227.0 → EOI v̄ broken along fractures, recry good.
	2294	77.7 2419		15	4A0	
						Highly fractured + broken, v̄ hard, thinly PS2 banded, locally CS2 foliated, carbonaceous qtzite. S2 surfaces dark grey → black. Banding is generally < 1/2 cm thick, diffuse,

DDH 89-07
2 8

CURRAGH RESOURCES INC.
Lithologic Log

Date: JULY 11/89 Logged By: CUR

Code	From	To	Recov.	No.	Unit	Description
1	10 14	16 20	22 24	26 28	30 34	35
						obtained by dominate qtz + Py ± minor sph ± traces of gal.
						Banding is 8 to 10% of unit.
						Est % Pb + Zn 2-3% - MAY BE!
						Est % Py 8-10%
						Entire interval is extremely broken due to abundant
						X-cutting fractures. Recy good
	241 9	75.3 241 7 0		116	4L 012	4 ± GOUGE (4AO) BzA 80 20
						Dominate unit is mod⁻ soft, light grey, sulphide bearing
						altered musc > chl phyllite. Contains abundant thin bands + stringers
						of qtz + py ± sph + gal. Est % S= ≈ 12% dominately Py. Est
						Pb + Zn 2-3% dominately sph.
						242.0 - 242.2 is 3 redrilled 4E4 fragments - likely, cave from
						higher massive S= interval. Fragments are at beginning of run.
						244.0 → 246.0' is white flakey, soft, 4L gouge. Only 0.4' rec'd.
						244.4 → EOI is dark grey to black, highly fractured + porous,
						mod hard, carbonaceous qtzite breccia. Contact w higher 4L
						gouge ≈ 50° to core axis. Bottom contact lost in
						rubble. Sulphides have been remobilized in thin fractures.
						Est % Pb + Zn < 1%, Est % Py 8-10%
						TOI → 244.0 mod broken, recy O.K.
						244.0 → 246.0 4L GOUGE 0.4' rec'd.
						246 → EOI v broken, recy O.K.

DDH B-9-G-07
2 8

CURRAGH RESOURCES INC.
Lithologic Log

Date: JULY 11/89 Logged By: CVR

Code	From	To	Recov.	No.	Unit	Description
1	10 14	16 20	22 24	26 28	30 34	35
	1214.7 0	78.9 1215.9 0		11 7	4L	GOUGE.
						Soft, flakey + muddy, white cream 4L GOUGE. Contacts lost in rubble. Locally - select PS2 texture visible. Contains local small qtz + py fragments, likely, highly broken + disrupted qtz-sulphide bands in 4L
						Core is sough.
						701 → 252.0 2.9' rec'd
						252.0 → EOI 1.5' sough rec'd.
						A Significant Fault - Too high to be Deal Lake Fault.
	1215.9 0	81.4 1216.7 0		11 8	15B12	6 GOUGE ± BxA.
						701 → 260.0 dark grey → black mod soft noncalcareous, mod carbonaceous, highly fractured and broken phyllite breccia. Rec, 0.5
						260.0 → EOI soft, dark grey, flakey - muddy 5B26 GOUGE. Oil, 1.8' rec'd.
						701 → 260.0 rubble, rec, 0.5
						260.0 → EOI GOUGE, 1.8' rec'd.
	1216.7 0	93.6 1310.7 0		11 9	15B10 12	± $ minor → [5A0 ± $ minor]
						Dark grey → locally black, dominantly PS2 foliated, moderately calcareous, locally dolomitic, mod carbonaceous phyllite. S2 surfaces dark grey to locally black. Unit is progressively darker down the hole, transitional to 5A. Contains local thin light grey qtz ± calcite ± dol silty bands and laminae aligned // to S2. Unit is v broken along S2 and deep

DDH 89G-07

CURRAGH RESOURCES INC.
Lithologic Log

Date: JULY 11/89 Logged By: CVR

Code	From	To	Recov.	No.	Unit	Description
1	10 14	16 20	22 24	26 28	30 34	35
						fractures.
						Core is extremely broken
						TOI → 273.0 2.6' rec'd.
						273.0 → 278.0 4.4' rec'd
						278.0 → 284.5 6.9' rec'd
						284.5 → 289.0 3.6' rec'd
						289.0 → 292.0 2.6' rec'd
						292.0 → 294.5 1.5' rec'd.
						294.5 → 297.0 2.2' rec'd.
						297.0 → 302.0 3.9' rec'd
						302.0 → 307.0 4.1' rec'd.
	3070	76.2 3155		210	5A6	± $
						Black, dominately PS2 foliated, mod soft, noncalcareous, locally dolomitic, phyllite. S2 surfaces carbon black & strongly marks fingers. Unit highly broken along S2 and steep fractures. Contains local thin light grey qtz ± dol siltstone laminae & bands defining S2.
						TOI → 309.4 v̄ broken recov O.K.
						309.4 → 312.0 Rubble ∓ black flakey phyllite gouge
						Only 0.8' rec'd.
						312.0 → EOI v̄ broken along S2 "poker chippy", recov O.K.

DDH 89G-07

CURRAGH RESOURCES INC.
Lithologic Log

Page 13

Date: JULY 11/89 Logged By: CVR

Code	From	To	Recov.	No.	Unit	Description
1	10 14	16 20	22 24	26 28	30 34	35
	3115 5	100.5 3129 7		121	5B6 2	2 ± GOUGE ± $ minor
						Dark grey, mod carbonaceous, mod soft, PS2 foliated, musc
						phyllite. S2 surfaces dark steel grey - only slightly mark
						fingers. Unit is locally incipiently brecciated and gouge
						due to lower Doal lake fault. Contains local minor thin
						light grey qtz ∓ dol bands // to S2.
						TOI → 319.0 v̄ broken + "poker chippy". recry O.K.
						319.0 → 321.0 flakey gouge 1.3' rec'd
						321.0 → EOI v̄ broken + poker chippy 5.9' rec'd.
	3129 7	108.8 3157 0		122	5A	GOUGE DOAL LAKE FAULT!!
						Dark grey → black v̄ soft flakey, carbonaceous phyllite
						gouge and breccia. Upper contact not recovered. Gouge
						may contain some Dolomite + Calcite.
						TOI → 335.0 GOUGE 3.1' rec'd.
						335.0 → 344.0 GOUGE ± Bxa 3.9' rec'd
						344.0 → 349.0 GOUGE 3.2' rec'd
						349.0 → 351.0 GOUGE 2.8' rec'd
						351.0 → 357.0 GOUGE + Bxa 1.8' rec'd

EOH

DDH 29-G-07 (2 / 8)

CURRAGH RESOURCES INC.
Structural Log

Date: July 7/89 Logged By: T. Kerber

Code	From	To	Feature	Sym	S_0 Dip Direct.	S_1 Dip Direct.	S_2 Dip Direct	Description
	10 14	16 20	22 24	26	28 32	34 38	40 44	
2	471	157	CS2	S		210 000	68	S_2 defined by micaceous fltn. S_1 by comp. banding.
1	571	1875	PS2	-		- -	46	S_2 defined by micaceous fltn. + pyritic banding.
4	604	198	PS2	-		- -	65	" + sphalerite bands
0	690	2265	PS2	-		- -	SP	S_2 defined by chloritic fltn. + pyrite bands
2	722	237	CS2	-		078 180	49	S_2 defined by micaceous fltn. and pyrite bands S_1 by comp. banding
6	866	2814	PS2	-		- -	54	S_2 defined by micaceous fltn
5	905	2977	PS2	-		- -	65	" "
					= EOH	=		

PROJECT _____ DRILLHOLE NO. 89-G-07 COORDINATES: N _____ DATE July 7 1989

LOCATION _____ HOLE SIZE _____ E _____ PAGE 1 of 2

LOGGER T. Kerbey INCLINATION _____ ELEVATION _____

PITEAU & ASSOCIATES
GEOTECHNICAL CONSULTANTS
VANCOUVER CALGARY

GEOTECHNICAL CORE LOG

DEPTH (TO)	LENGTH OF RUN	CORE RECOVERY		RQD		HARDNESS	DEGREE OF BREAKAGE		DEGREE OF WEATHERING	ROCK TYPE	BEDDING DIP		BEDDING JOINTS		CROSS JOINTS		COMMENTS
		LENGTH	%	LENGTH	%		CATEGORY	NO.			DEPTH	ANGLE	NO.	FREQ.	NO.	FREQ.	
154		2.0	.6	0	0		6		E						1		46.9
163	9	5	1.5	0	0		6		E						0		49.7 2.7
167	14	4	1.2	6.5	26		7		E						1		50.9 1.2
170.5	3.5	3.1	.9	0.35	.3		7		E						0		52.0 1.1
174	3.5	3.0	.9	0	0		6		E						0		53/54.7 1.1/1.7
179.5	5.5	5.5	1.7	0	0		6		E						0		
183	3.5	2.5	.8	0.35	.1	.11	6		F						0		55.8 1.1
184.5	1.5	0.7	.2	0	0		6		F						0		56.2 .5
189	4.5	4.5	1.4	1.05	.32		7		F						2		57.6 1.4
195	6	0.6	.2	0.4	.12		7		F						0		59.4 1.8
201	6	6	1.8	0	0		6		F						0		61.3 1.8
204	3	2	.6	0	0		6		F						1		62.2 .9
208	4	2	.6	0	0		6		F						1		63.4 1.2
216.5	8.5	6.6	2.0	0	0		7		F						1		66.0 2.6
223.5	7.0	5.8	1.8	0.75	.2		8		F						0		68.1 2.1
225.5	2	2	.6	0.35	.1		6		E						0		68.7 .6
229	3.5	3.5	1.1	0.45	.1		7		F						0		69.8 1.06
232.5	3.5	3.5	1.1	0.35	.1		6		F						0		70.9 1.06
235	2.5	2.2	.7	0	0		6		F						0		71.6 .8
237	2	2	.6	0	0		6		F						0		72.2 .6
240.5	3.5	3	.9	0.6	.2		6		F						0		73.3 1.06
242	1.5	1.5	.5	0	0		6		F						0		73.8 .5
247	5	3.1	.9	1.0	.3		9		F						0		75.3 1.5
252	5	2.8	.9	0	0		1		F						0		76.8 1.5
260	8	2.5	.8	0	0		1		F						0		79.2 2.4
267	7	1.5	.5	0	0		1		F						0		81.1 2.1
273	6	2.5	.8	0	0		6		F						0		83.2 1.82
278	5	4.6	1.4	0	0		6		F						0		84.7 1.5
284.5	6.5	6.5	2.0	0	0		6		F						1		86.7 1.9

Fig. 1. Typical rock mechanics core log.

PROJECT _____ DRILLHOLE NO. 89-6-07 COORDINATES: N _____ DATE July 7 1989

LOCATION _____ HOLE SIZE _____ E _____ PAGE 2 of 2

LOGGER T. Kerber INCLINATION _____ ELEVATION _____

PITEAU & ASSOCIATES
GEOTECHNICAL CONSULTANTS
VANCOUVER CALGARY

GEOTECHNICAL CORE LOG

DEPTH (TO)	LENGTH OF RUN	CORE RECOVERY		RQD		HARDNESS	DEGREE OF BREAKAGE		DEGREE OF WEATHERING	ROCK TYPE	BEDDING DIP		BEDDING JOINTS		CROSS JOINTS		COMMENTS	
		LENGTH	%	LENGTH	%		CATEGORY	NO.			DEPTH	ANGLE	NO.	FREQ.	NO.	FREQ.		
289	4.5	3.7	1.1	0			6		F							0	88.1	1.4
292	3	2.6	.8	0			6		F							0	89.0	.9
294.5	2.5	0.8	.2	0			6		F							0	89.8	.8
297	2.5	2.2	.7	0			6		F							0	90.5	.8
302	5	4	1.2	0.4	.1		6		F							0	92.0	1.5
307	5	4.2	1.3	0			6		F							0	93.6	1.5
312	5	3	.9	0			2		F							0	95.1	1.5
317	5	4.6	1.4	0			6		F							0	96.6	1.5
321	4	3.3	1	0			6		F							0	97.8	1.2
324	3	1.7	.5	0			6		F							0	98.9	.9
327	3	2.6	.8	0			6		F							0	99.7	.9
330	3	1.9	.6	0			6		F							0	100.6	.9
335	5	2.7	.8	0			1		F							0	102.1	1.5
340.5	5.5	4	1.2	0			1		F							0	103.8	1.7
344	3.5	3.2	1.0	0			1		F							0	104.9	1.1
351	7	2.6	.8	0			1		F							0	107.0	2.1
357.6	1.7	.5	0				1		F							0	104.8	1.8

Fig. 1. Typical rock mechanics core log.

DDH 89-07 (2 8) CURRAGH RESOURCES INC. Page ____ of ____

Logged by CJK.

ASSAY LOG (SAMPLER'S COPY) Date JULY 11/89 Sampled by ____

CODE	FROM	TO	SAMPLE	INTR.	REC (m)	UNIT	DESCRIPTION
	0.14	49.20	82 — 26	28 44 30	32 — 34	36 WASTE 40	42
	49.50	50.62	41801	32	.8 | 26	4E4161$	Porous Slightly Weathered
	50.62	51.64	41802	32	.8 | 26	4E4161$	" " "
	51.64	52.82	41803	38	.8 | 28	14AIC	Moderately Weathered
	52.82	54.27	41804	45	1.1 | 37	14A10	" "
	54.27	55.80	41805	53	1.6 | 53	14A10	" "
*	55.80	56.83	41806	33	1.0 | 33	14A10	" "
	56.83	57.90	41807	27	.8 | 27	14D10	± $
	57.90	59.40	41808	60	.2 | 06	4E$1-4	* NOTE POOR RECOVERY!
	59.40	60.30	41809	30	.9 | 30	4D01	± $
	60.30	61.75	41810	45	1.4 | 45	14D10	± $
	61.75	62.76	41811	31	.8 | 26	14E416	± B ± $ minor
→	62.76	66.00	— 9 —	33	—	WASTE	
	66.00	67.98	41812	63	1.6 | 54	14D10	± $ minor most weathered
	67.98	68.59	41813	21	.6 | 21	14A01	
	68.59	69.94	41814	45	1.4 | 45	14C10	(4A0) 80 20
	69.94	71.30	41815	36	1.1 | 36	14A10	
	71.30	72.70	41816	40	1.2 | 40	14A10	
	72.70	73.79	41817	49	1.2 | 41	14A10	
	73.79	75.30	41818	51	1.3 | 43	4L10 12H	± GOUGE (4A0) 80:20
→	76.30	116.80	— 0 —	33.5	—	WASTE	

89-G-08

CURRAGH RESOURCES INC.

Page 1 of ____

DIAMOND DRILL CORE LOG

Date: July 10 /89

Hole Number: 89G-08

Reference Fabric Orientation Diagram:

Project: Grum Deposit Core Drilling - 1989

Location: Grum Deposit

Claim: _____

UTM ~~Terr.~~Plane Co-ords.: 6905388.218 N 6754.47 N

592174.174 E 2941.35E

Grid Co-ords: 86 W / 11 N

Elevation: 1310.937

All symmetry determinations looking

Total Depth: 434(ft) 132 (m)

_____ with _____ dipping

Inclination: -90°

_____ with dip azimuth _____.

Purpose: To Test NW Section of Grum Deposit.

Reason hole Terminated: Drilled into Footwall

Logged by: C.V. Reed

Date(s) Logged: July 13-15, 1989

Drilling Contractor: Arctic

CORE Size	From	To
NW	0	9
NQ	9	434.0 ft.

Collar Cased and Capped: No

Hole Cemented: No

Steel down Hole: No

Assay Lab: _____

Certificate No's: _____

Started: _____ Completed: July 9/89

CURRAGH RESOURCES INC.

Diamond Drill Core Log

DDH 89G-018

Date: JULY 10/89 Logged By: _____

Code	Drillhole	Elevation	Northing	Easting	Units (feet/metres)	R.F.E.	
	2 8	10 16	17 24	25 32	34 39	41 42	
T	89G-018					52	

Code	Drillhole	Depth FEET	Zenith Angle	True Azimuth	Comments
	2 8	10 14	22 26	28 32	34 56
RR	89G-018	0.0	-90.0	0.0	ATCOLLAR
R	89G-018	80.5 1216.4	-86.5	125.0	SPERRY SUN
R	89G-018	126.2 1911.7	-84.2	107.0	SPERRY SUN
R			.	.	
R			.	.	
R			.	.	
R			.	.	
R			.	.	
R			.	.	
R			.	.	
R			.	.	
R			.	.	
R			.	.	
R			.	.	
R			.	.	
R			.	.	
R			.	.	
R			.	.	
R			.	.	
R			.	.	
R			.	.	
R			.	.	
R			.	.	
R			.	.	
R			.	.	
R			.	.	

Code	Drillhole	Comments, Errant Remarks, Snivellings and / or Lewd Suggestions
	2 8	10 56

DDH BAG-08
2 8

CURRAGH RESOURCES INC.
Lithologic Log

Date: JULY 13 Logged By: CUA

Code	From	To	Recov.	No.	Unit	Description
1	10 14	16 20	22 24	26 28	30 34	35
	0 0	12 0		1	#1	TRICONED - NIO RECOVERY
		37				
	12 0	19 5		2	5B10	Weathered.
		59				Mod soft, light grey, locally rusted, locally CSa foliated musc phyllite. Abundant orange rust on Sa and fracture surfaces. Contains abundant calcite in thin qtz-calcite bands // to Sa and defining lithons. Core v broken due to fracturing + weathering along Sa.
						TOI - 12.7 Rubble OC' spooned out rec'd.
						12.7 - EOI v broken 7.2' rec'd
	19 5	19 4		3	5B10	
		33 3				Light grey, CSa foliated, v calcareous, mod soft musc phyllite. Sa surface light - medium steel grey. Contains abundant calcite in thin light grey bands // to Sa + defining lithons. TOI - 39.7 contains abundant broken + brecciated pegmatitic white qtz veins.
						TOI - 25.0 Rubble. 1.9' rec'd
						25.0 - 68.3 v broken along Sa + deep fractures 35.7' rec'd
						68.3 - 69.1 Flaky rubble + incipient gouge - calcite
						69.1 - 103.0 v broken along Sa, very good
						103.0 - 104.0 rubble - end run recy O.K.
						104.0 - EOI v broken recy good

DDH 89G-08

CURRAGH RESOURCES INC.
Lithologic Log

Page 04

Date: JULY 13/89 Logged By: CUR

Code	From	To	Recov.	No.	Unit	Description
1	10 14	16 20	22 24	26 28	30 34	35
	1094	1148		4	5B0	±2 ± BxA.
		350				Mod⁻ soft, highly broken, locally brecciated, dominately PS2 foliated, light to locally dark grey, calcareous phyllite S2 surfaces range from medium → dark steel grey. Becomes darker moving ↓ unit. Bottom 1.0' incipiently brecciated against qtz vein
						TOI → 114.0 v̄ broken, incipiently brecciated along X-cutting fractures. Fractures steeper than S2 ≈ 000/30° wrt S2. recvy good.
						114.0 → EOI, breccia and reg qtz fragments recvy good
	1148	1207		5	5D0	(5A0) 95:5.
		367				Dominate unit is mod⁻ soft, calcareous, pale olive green, thinly PS2 laminated chloritic phyllite. Margin w̄ higher 5B and lower 5A sharp ∥ to S2. Contains abundant calcite in thin bands and X-cutting thin fractures. S2 disrupted due to abundant thin fractures. S2 surfaces are dull pale green. Top 0.6' of unit is brecciated reg⁻ qtz vein.
						Contains local minor cofolial thin bands of black, calcareous, carbonaceous phyllite. Margins of bands slightly brecciated. Bands range from 2-5 cm thick at intervals of approx 2'.
						TOI - 117.5 v̄ broken along fractures 0.8' core loss
						117.5 - EOI s̄ broken, recvy good.
	1203	1266		6	5A0	
		386				Mod⁻ soft, black, highly fractured, v̄ calcareous, carbonaceous phyllite S2 surfaces carbon black - strongly mark fingers

DDH 89G-08
2 8

CURRAGH RESOURCES INC.
Lithologic Log

Page 05 of

Date: JULY 13/89 Logged By: CVR

Code	From	To	Recov.	No.	Unit	Description
1	10 14	16 20	22 24	26 28	30 34	35
						Unit is CS_2 foliated - defined by abundant white qtz-calcite lithons. Calcite also occurs infilling abundant thin X-cutting fractures. Margins of 5A sharp ∥ to S_2.
						TOI – 122.8 v̄ broken along fractures + S_2 recvy good.
						122.8 – EOI v̄ broken, recvy good.
	1266	1348		7	1530	± 7 ± 2 (5D0 ± $) 70:30
		411				Mixed unit, alternating bands of pale green chloritic phyllite, and light grey w̄ local chl laminations, locally mod⁻ carbonaceous phyllite.
						TOI → 127.3 mod⁻ soft, pale green, calcareous, dolomitic, thinly PS_2 laminated chloritic phyllite. Dol + calcite in thin bands ∥ to S_2 + X cutting thin fractures. Margins of band brecciated.
						127.3 – 127.5 dark grey, calcareous, mod⁻ carbonaceous phyllite band, margins ∥ to S_2.
						127.5 – 133.0, v̄ calcareous, light grey w̄ abundant thin anastomosing chl laminations, mesc⁻+chl phyllite. S_2 surfaces dark grey w̄ local chl. clots. Contains abundant thin fractures infilled w̄ white calcite.
						133.2 → 133.3 medium → dark grey, calcareous, PS_2 laminated, moderately carbonaceous phyllite. Margins ∥ to S_2.
						133.5 → EOI Pale green, v̄ calcareous, thinly PS_2 laminated, mod⁻ soft chl phyllite. Top contact w̄ 5B slightly brecciated bottom contact sharp ∥ to S_2.
						Unit mod⁻ broken, recvy good.

DDH 89G-08 (2 of 8)

CURRAGH RESOURCES INC.
Lithologic Log

Date: July 13/89 Logged By: CUR

Code	From	To	Recov.	No.	Unit	Description
1	10 14	16 20	22 24	26 28	30 34	35
	112148	114117 43.2		18	151B012	
						CS_2 foliated, mod soft, medium to dark grey, ū calcareous, ūū carbonaceous phyllite. S_2 surfaces medium grey to locally black. Carbon decreases moving down interval. Abundant calcite occurs in thin white bands ū g+z + in filling steep fractures.
						TOI - 137.0 ū broken along steep fractures. Recy good.
						137.0 - 140.7 ī broken on S_2. Recy good.
						140.7 - EOI ū broken along steep fracture. Recy good.
	114117	115130 46.6		19	151B17	8 [SD Field] (SBO) 95:5
						Light green-grey, mod soft locally CS_2 foliated, ū calcareous chl ± musc phyllite. S_2 surfaces dk grey-grey. Abundant thin white g+z + calcite bands + laminae define S_2 + microlithons define S_1
						Contains local thin intervals of medium grey, PS2 foliated, calcareous, slightly carbonaceous phyllite. Margins ū chl phyllite sharp // to S_2. Bands range from 5 to 10 cm thick.
						Core ū broken, recy good.
	115130	117130 52.7		110	151B02	(SDO) 98:2
						Medium → dark grey, CS_2 foliated, ū calcareous, moderately carbonaceous phyllite. S_2 surfaces shiny dark grey. Contains abundant thin g+z + calcite litions and bands defining S_1 + S_2. 160.0 - 161.0 incipiently brecciated and gouged S_2 surfaces only, slightly matt layers.

DDH 89G-08 (2 8)

CURRAGH RESOURCES INC.
Lithologic Log

Date: July 13/89 Logged By: CUR

Code	From	To	Recov.	No.	Unit	Description
1	10 14	16 20	22 24	26 28	30 34	35
						Contains abundant thin late X-cutting fractures infilled w̄ w̄ calcite.
						Centered at 174.5 is highly fractured, calcareous, thinly PS2 foliated chloritic phyllite.
						TOI - 158.4 w̄ broken recry good
						158.4 - 161.0 flakey gouge + breccia 1.0' rec'd. Likely not a significant fault
						161.0 - 165.5 "poker chippy" recry O.K
						165.5 - 168.5 incipient flakey gouge + bxa 0.9' rec'd.
						168.5 - EOI w̄ broken along S2 recry good
	1730	1758 (53 6)		11	5DP	
						Pale green, thinly PS2 laminated, w̄ calcareous, chloritic phyllite. S2 surfaces light green - grey. Contains abundant thin qtz + calcite bands, generally < 3mm aligned // to S2. Top + bottom contacts sharp, // to S2.
						Core mod broken along S2. Recry good.
	1758	1825 (55 6)		12	5AP	(5DO) 95 5
						Dominate unit is dark grey - black, w̄ calcareous, carbonaceous phyllite. Unit is mod soft. S2 surfaces shiny black + mark fingers. Contains abundant thin white calcite + qtz siltstone bands and laminae which locally define lithons.
						Centered at 178.7 is light green, thinly PS2 banded + laminated, w̄ calcareous, chl phyllite. Margins sharp // to S2.

DDH 89G-08
2 8

CURRAGH RESOURCES INC.
Lithologic Log

Date: JULY 13/89 Logged By: CLR

Code	From	To	Recov.	No.	Unit	Description
1	10 14	16 20	22 24	26 28	30 34	35
						Core mod^ broken, very good
	118.5	56.8 118.6		113	151010	(5802) 98:2.
						Dominate unit is mod^ soft, ± calcareous, PS, banded chloritic phyllite. S2 present as weakly developed crenulation cleavage. S0 defined by abundant white-grey calcite + qtz bands. Quartz + calcite bands define M1 region.
						Unit contains 3 thin bands of medium-dark grey, calcareous, carbonaceous phyllite. Bands are approx 3cm thick, margins sharp // to S2.
						Contact at 187.4 is 4" thick steep, X-cutting pegmatitic qtz vein
						Core mod^ broken - very broken at margins of qtz vein very good.
	118.6	63.1 210.7		114	151A10B	
						Mod^ soft CS2 foliated dark grey → black, calcareous, dolomitic, carbonaceous phyllite. S2 stained black + marks fingers. Thin qtz-calcite ± dolomite bands + laminations define both S1 + S2. Contains abundant white-grey qtz-calcite lithons.
						Top 10.4' of interval contains abundant thin broken + brecciated pegmatitic qtz veins, veins generally, < 5cm thick. Veins have local thin pale green chl selvages.
						Local poor development of CS2 crenulation cleavage in thin intervals. S2 appears to trend // to core axis

DDH 89G-08 (2 8)

CURRAGH RESOURCES INC.
Lithologic Log

Date: July 13/89. Logged By: CVR

Code	From	To	Recov.	No.	Unit	Description
1	10 14	16 20	22 24	26 28	30 34	35
						TOI – 199.0 mod broken, recy good.
						199.0 – EOT very broken along S_2 + steep fractures, recy good.
	12107 1	12114 1 (65 3)		115	51C14 #1	"Zebra Rock"
						Mod soft → soft, olive green + white-tan striped, dolomitic, anketitic? altered metabasite. Unit is PS2 foliated. Contains
						abundant pale olive green thin chl laminations defining S_2.
						S_2 surfaces are dull mottled white-grey + green. Groundmass appears
						to be dol, anketite, minor calcite + quartz.
						Top contact w phyllite is brecciated, bottom contact w
						sulphides is sharp // to S_2 Core mod broken, recy good.
	12114 1	12117 6 (663)		116	14IE117	± $ minor (4D4) (5A6) 38:60:2
						TOI → 215.4 is w hard poorly banded, siliceous, semi-
						massive pyrite + pyrrhotite sulphide. Est % P_y ≤ 60%,
						Est % Po ≤ 15% Est % Qtz 20% remainder is Sed +
						Gal, minor local dol "clasts." Top 4" of unit contain
						thin micaceous + dolomitic bands approx ½ cm thick aligned
						// to S_2. Unit grades gradually into high grade gtz rite.
						215.4 → EOT w hard sphalerite "flooded" well banded,
						noncalcareous gtz rite. Contains abundant red-brown sph in
						hazed diffuse bands // to S_2. Contains only minor
						Py. Bottom 6" of unit contains local, thin intervals
						of thinly laminated, black, mod soft carbonaceous phyllite
						Difficult to tell whether these are brecciated clasts
						or disrupted thin bands. Margins of SA interval

DDH 89G-08

CURRAGH RESOURCES INC.
Lithologic Log

Date: July 13/89 Logged By: CUR

Code	From	To	Recov.	No.	Unit	Description
1	10 14	16 20	22 24	26 28	30 34	35
						are both // to S2 and X-cut S2.
						Est Pb+Zn for 4D is 20%. Almost all zinc. %
						Py < 2%.
						Core $\bar{S}$ broken, recry good.
	2176	2195		17	5A6	9
		66 9				Mod soft, PS2 laminated, noncalcareous carbonaceous phyllite. S2
						surfaces shiny black - slightly mark fingers. Contains local thin
						bands of qtz ± sph aligned // to S2. Est % Pb+Zn 1-2%.
						Core $\bar{v}$ broken along S2, recry good.
						Margins $\bar{w}$ $S^=$ lithofacies are sharp // to S2.
	2195	2315		18	4D0	± 5 minor.
		70 6				$\bar{v}$ hard, thinly banded, locally slightly carbonaceous qtzite.
						Banding defined by diffuse py ± sph + minor gal. Locally sph > gal.
						Banding is only 10-12% of rock volume. Contains local minor
						thin black carbonaceous folia. $S^=$ banding dominately aligned // to
						S2.
						Est % Py ≈ 8%. Est Pb+Zn 4-6%. Dominately sph.
						Core moderately broken along X-cutting fractures. Recry good.
	2315	2370		19	4A0	± 4
		72 2				$\bar{v}$ hard, CS2 foliated, ribbon banded carbonaceous qtzite. S2
						surfaces black + mark fingers. $S^=$ banding is thin + diffuse -
						defines both S1 + S2. Sph approx subequal to Py. Locally
						Sph > Py. Banding is approx 12% of unit volume.

DDH 89G-08
2 8

CURRAGH RESOURCES INC.
Lithologic Log

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Date: July 13/89 Logged By: CWR

Code	From	To	Recov.	No.	Unit	Description
1	10 14	16 20	22 24	26 28	30 34	35
						Est % Pb+Zn ranges from 3-8%. Entire interval ≈ 4%.
						TOI - 233.0 core m̄ broken, recvy good.
						233.0 - EOI v̄ broken along steep fractures.
						±5 minor
	2370	2718		20	4C0	"MICACEOUS" → [4D0 "micaceous" ± 5 minor]
		828				Grade is fence sitting between 4C + 4D. Unit is mod-
						hard to hard, v̄ micaceous, thinly ribbon banded qtzite. Ribbon
						banding is poorly developed, defines S1 + S2 and consists of
						diffuse sph, py + traces of gal. Banding is thin, generally
						< 3-4mm. Banding ranges from 5-12% of unit volume.
						Mica content increases moving down the interval. Core breaks
						easily along this foliation. Overall colour is light white-
						grey. Contains abundant white grey lithons defined by qtz ∓ minor
						sph ∓ minor sph.
						Est Pb+Zn 4-6%.
						TOI → 249.8 s̄ broken recvy good.
						249.8 → 255.3 m̄ " along steep fractures, incip. gouge along fracture
						at 250.5. 255.3 to 257.7 s̄ broken along S2
						257.7-262.0 v̄ broken along steep fractures.
						262.0-267.0 m̄ broken along S2
						267.0 → EOI s̄ broken.
						Recvy O.K for entire interval.

DDH 89G-08 (2 – 8)

CURRAGH RESOURCES INC.
Lithologic Log

Date: July 14/89 Logged By: CUR.

Code	From (10–14)	To (16–20)	Recov. (22–24)	No. (26–28)	Unit (30–34)	Description (35)
	2711 8	86.9 2815 1			15A619	
						Mod soft CS2 foliated, black carbonaceous phyllite. Unit is noncalcareous, S2 surfaces carbon black, marks fingers. Contains abundant thin light-grey qtz siltstone bands + laminae defining S1 + S2. Bands contain local minor py + sph.
						TOI → 272.0 flakey, black carbonaceous gouge.
						272.0 → 281.7 mod broken along S2 and local thin fractures. Local development of thin gouge along fractures very O.K.
						287.1 → EOI 5 broken along S2. recy good.
						Est % S= 3-4% Est % Sph 1-2%. No gal.
	2815 1	91.9 3011 6			15B16	2 weak ± $ minor
						Medium-dark grey, mod soft, noncalcareous, CS2 foliated, musc phyllite. S2 surfaces shiny dark steel grey - only slightly mark fingers. Contains abundant thin qtz ± dol siltstone bands + laminae. These laminae locally define lithons.
						Core slightly broken, recy good.
	3011 6	97.8 3210 9			15A611	9 ± $
						Black, mod soft → hard, CS2 foliated, siliceous, carbonaceous phyllite. Qtz sulphide ribbon banding beginning to develope. Banding contains local minor diss sph. Bands commonly define lithons. S2 surfaces black - mark fingers. Unit mod hard due to abundant thin qtz bands. Banding 30-40% of unit. Unit not hard enough + qtz sulphide bands not

DDH 89G-08
2 8

CURRAGH RESOURCES INC.
Lithologic Log

Date: JULY 14/89 Logged By: CUR.

Code	From	To	Recov.	No.	Unit	Description
1	10 14	16 20	22 24	26 28	30 34	35
						developed enough to call this unit 4A. Local interstitial dol in qtz
						bands. Unit mod broken along S2, recy good.
						Qtz rich bands increase moving down unit.
	3R09	98.4 3RR8			4CB5	"micaceous"
						Mod hard, thickly PS2 banded, mod carbonaceous qtzite.
						Banding defines S2, up to 4 cm thick, consists of subequal
						py + qtz traces of sph + gal. Banding 50% of unit. Margins
						of qtzite sharp, ∥ to S2. Contains local abundant carbonaceous
						mica foliations.
						Est % Py ≈ 20-25%
						Est % Pb+Zn 1-2%
						Core 5 broken, recy good.
	3RR8	100.4 3219 5			5A6119	±$
						Same as unit #. Local incipient cofolial incipient
						gouge from 324.7 → 324.9. Rest of interval mod broken
						along S2, recy good.
	3R95	102.1 3351			4D0	"chloritic"
						Medium grade, mod hard, CS2 foliated qtz-sulphide
						banded qtzite. Contains abundant paper thin mica + chl
						laminations defining S2 + local lithons. Banding defined by
						dominate py, interstitial qtz and lesser sph + gal.
						Banding ≈ 25% of rock volume. Est % Pb+Zn
						6-8%, dominately sph.

DDH 89G-08

CURRAGH RESOURCES INC.
Lithologic Log

Date: July 14/89 Logged By: CUR

Code	From	To	Recov.	No.	Unit	Description
1	10 14	16 20	22 24	26 28	30 34	35
						Core mod broken, recy good
	13 15 1	104.5 13 42 9			4L24	"stringered"
						White-grey, mod soft, locally CS2 foliated, altered musc > chl phyllite. Contains abundant thin py + gal + sph + qtz stringers + thin bands. Bands locally define lithons. Est % Py 5-6% Est % Sph + Gal ≈ 2% S2 surfaces mottled light white-grey + green.
						TOI → 334.6 Flakey cream-white gouge recy O.K
						334.6 → EOI Core mod broken, recy O.K.
	13 42 9	106.8 13 50 6			5C4	# (4L624) 60:40
						V̄ mixed unit. Dominate unit is v̄ calcareous pale green + tan white striped, mod soft altered metabasite. Metabasite bands range from 5 - 20 cm thick.
						Interbanded v̄ this unit is light green-grey, noncalcareous, qtz-sulphide stringered altered musc + chl phyllite. Sulphides ≈ 5% of unit. Est Ps + Zn for 4L ≈ 2%?
						TOI - 347.0 S broken, recy good
						347.0 → EOI m̄ broken, recy good
	13 50 6	108.3 13 55 2			5B62 9	± $ minor → [5A69]
						Mod soft, PS2 foliated, dark grey, moderately carbonaceous, phyllite. S2 surface dark shiny grey. Unit is noncalcareous. Contains local qtz ± dol ± py + traces of sph in thin bands ∥ to S2. Core mod broken along S2. Recy good.

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CURRAGH RESOURCES INC.
Lithologic Log

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Date: July 19/89 Logged By: CVR

Code	From	To	Recov.	No.	Unit	Description
1	10 14	16 20	22 24	26 28	30 34	35
	1355 2	1097 / 1360 0			4L6	GOUGE + Bxa (5B26 GOUGE + BxA)
						TOI → 357.1 soft light green-grey flakey phyllite gouge.
						Top contact 270/32° wrt S2. Gouge contains fragments of
						5B2 and 4L. Bottom contact of gouge ∥ to S2. Recvy O.K.
						357.1 → 358.1 Pale green-grey, altered, locally brecciated
						chl > musc phyllite, v̄ broken, recvy good.
						358.1 → EOI highly broken, mod soft, noncalcareous medium →
						dark grey phyllite Bxa ± Gouge Top contact 000/30° wrt S2.
						Bottom contact brecciated + gouged against highly broken peg.
						qtz vein. Core v̄ broken w̄ local gouge + bxa. Recvy O.K.
	1360 0	1126 / 1369 9			4A0	±4 (4D0) (5D6$) 70:20:10
						Dominate unit is highly broken + fractured, v̄ hard,
						dark grey, moderately carbonaceous ribbon banded qtzite. Ribbon
						banding is thin + diffuse defined by py ≈ sph and interstitial
						qtz. Est % Pb + Zn ranges from 2-8%. S2 surfaces black +
						mark fingers.
						363.8 → 364.8 is pale olive green, dolomitic, thinly
						PS2 laminated chloritic phyllite. Bottom contact sharp ∥ to
						S2. Top contact is 3" thick light grey mud gouge.
						Top and bottom 8" selvage to this chl phyllite is
						4D0. Carbon folia bleached out. Est grade ≈ 5-6%. Texture
						same as 4A except carbon folia absent.
						TOI - 360.5 highly broken white pegmatitic qtz vein, recvy O.K.
						360.5 - 364.8 v̄ broken along S2 + fractures, recvy O.K.
						364.8 - 365.1 - soft light grey mud gouge. Margin of gouge

DDH 89G-08

CURRAGH RESOURCES INC.
Lithologic Log

Page 16

Date: July 14/84 Logged By: CYR

Code	From	To	Recov.	No.	Unit	Description
1	10 14	16 20	22 24	26 28	30 34	35
						// to S_2
						365.1 → EOI v̄ broken along S_2 and steep fractures.
	3619 4	1131 / 3711			4A	BxA. + GOUGE.
						Highly broken + fractured, black, carbonaceous qtzite breccia + GOUGE.
						Clasts are angular, some rotated range in size < 1mm to
						several cm's.
						Top contact // to S_2. Bottom contact lost in rubble.
						Core is rubble + gouge. Recov O.K. - No grade.
	3711 1	1183 / 3881			5D6 1$	(4A4)
						Dominate unit is thinly PS_2 laminated, dolomitic, pale
						tan-green, noncalcareous chloritic phyllite. S_2 surfaces are dull
						tan green. Contains local thin coarse qtz bands which are likely
						later fracture fills. (later cofoil form.) Interbanded w̄
						unit in intervals ranging fr 2" to 2'. Is dk grey to blk
						very hard qtz. S= ribbon banded carbonaceous qtzite.
						Ribbon banding def'n by dominant red brown
						Sph. Interstial grey qtz & lesser Py. Bands less than
						½cm defining S_2. Margins of bands sharp // to S_2.
						Bands occur at 377.8 to 378.1 ft., 381.3 to 382.8 ft.
						384.6 to 385.1 ft., 386.1 to 386.2 ft Repitition of 4A
						doesn't appear to be fold related. Est Pb+Zn for 4A
						is 8-10% dominantly Sph. TOI to 378.2 is very
						broken along S_2 & X-cutting fractures Recovery
						is good. 378.2 to EOI core is moderately broken

DDH 2 8

CURRAGH RESOURCES INC.

Lithologic Log

Date: July 15/89 Logged By: CVR

Code	From	To	Recov.	No.	Unit	Description
1	10 14	16 20	22 24	26 28	30 34	35
						along S_2. Recovery is good.
	3818 1	4016			14A14	(4DO) 80:20
						Unit is moderately hard to v hard. Dk grey to locally light grey. Locally CS_2 foliated. Dominantly carbonaceous ribbon banded qtzite. Ribbon banding is thin & diffuse & defines S_1 & S_2. Bands contain dominant Red-Brown Sph, Lesser Py & interstial qtz. Bands less than ½ cm thick. Lithons locally def'nd by thin micaceous laminations & qtz $S^=$ bands. Bands are approx 15% of unit volume. Est grade ranges from 6-10%, Sph is dominant. Locally in thin intervals carbonaceous foli are absent. Intervals of 4D range fr 8" to foot & ½. Appear to be randomly distributed.
						TOI - 407.6 core intact, recovery good.
						407.6 - 409.2 very broken, local breccia & incipient gouge along fractures, recovery good.
						409.2 - 392.7 moderately broken, local fractures, recovery good.
						392.7 - 398.1 core slightly broken, recovery good
						398.1 - 400.5 Core is rubble due to steep fracture. Recovery is good.
						400.5 - 403.8 slightly broken, recovery good
						403.8 - 405.2 core is very broken recovery good

DDH 89-G-08

CURRAGH RESOURCES INC.

Lithologic Log

Date: July 15/89 Logged By: CVR.

Code	From	To	Recov.	No.	Unit	Description
1	10 14	16 20	22 24	26 28	30 34	35
						405.2 - EOI core moderately broken along S_2. recovery is good.
	40165	41669/4			15B6	2 weak. ± $ minor
						CS_2 foliated, med to dk grey. Weakly carbonaceous. Moderately soft musc phyllite. S_2 surfaces are shiny dk steel grey. Contains abundant micro-kink structures defined by micaceous folia & siltstone laminae. Local qtz siltstone laminae & bands contain interstial dol. Top contact w 4A. is sharp & // to S_2.
						TOI - 407.9 v broken due to fracturing & brecciated thin pegmatitic qtz vein
						407.9 - 414.6 core is mod broken along S_2 & X-cutting fractures. Recovery good.
						414.6 - EOI v broken, locally brecciated, minor incipient gouge along fractures.
	41416 4	41423 1			15B6	2 weak (100)(4k-Chalk.) 70:25:05
						Highly broken & fractured Med to dk grey non calcareous weakly carbonaceous Phyllite same as unit above. Contains 4 fractured & pegmatitic qtz veins. At regular intervals. Veins range from 6" to foot. Margins of vein are brecciated.

DDH 89-6-08 (2 8)

CURRAGH RESOURCES INC.
Lithologic Log

Date: July 15/89 Logged By: CVR

Code	From	To	Recov.	No.	Unit	Description
1	10 14	16 20	22 24	26 28	30 34	35
						420.5 - 420.9 - highly altered & very soft, white powdery chalk. Margin of chalk band is brecciated. Chalk contains fragments of pegmatitic qtz. fragments less than 2cm apart. Unit is a homogeneous chalk white.
						TOI - 420.4 Core is v broken. due to fracturing Recovery is good.
						420.4 - 420.9 Powdery white chalk breccia. Recovery is good.
						420.9 - EOI. Rubble. due to highly brecciated qtz vein Recovery is good.
	14 12 13	14 13 14			15 18 12	6 ±9 ± $ minor (5B @ $) 98:02
						Dominant unit is dk grey, moderately carbonaceous mod soft, CS_2 foliated. Musc phyllite. S_2 surfaces are dk steel grey.
						From 425.5 - 426.7 unit contains local thin diffuse Sph ± galena. interstial qtz bands. Bands appear to trend along thin cafolio form fractures. Win this interval Pb+Zn is approx 3-4% Local micro lithons defined by local qtz-siltstone laminae. Laminae contains local - interstial dol.
						429.3 - 429.6 Thinly PS_2 laminated, light tan-green, moderately soft, dolomitic - ankeritic

DDH 89-09
2 8

CURRAGH RESOURCES INC.
Lithologic Log

Date: July 15/89 Logged By: CVR.

Code	From	To	Recov.	No.	Unit	Description
1	10 14	16 20	22 24	26 28	30 34	35
						chloritic phyllite. Margins of band 11 to S_2.
						TOI - 424.3 - V broken along steep fracture.
						424.3 - 429.6 - core is mod broken
						429.6 - 430.2 - V broken & incipiently brecciated along fractures; Recovery is good
						430.2 - EOH core is mod broken along S_0. Recovery is good.
						— EOH —

C.R.I. 1987 E-3A

DDH 89-68 (2 … 8)

CURRAGH RESOURCES INC.
Structural Log

Page 1 of 1

Date: July 10/89 Logged By: A. Reznik

Code (1)	From (10–14)	To m. (16–20)	Feature (22–24)	Sym (26)	S_0 Dip (28–32)	S_0 Direct.	S_1 Dip (34–38)	S_1 Direct.	S_2 Dip (40–44)	S_2 Direct	Description
		119	PS2	-			T	T	54		compositional banding & micaceous foliations present.
		183	CS2	S			32	294	70		" " " "
		232	CS2	Z			34	258	78		" " " "
		288	PS2	-			T	T	71		" " "
		305	CS2	S			35	284	71		" " "
		418	PS2	-			T	T	68		" " "
		472	PS2	-			T	T	82		Fold nose present in interval.
		547	CS2	S			32	330	64		compositional banding & micaceous foliations present.
		553	CS2	M			15	330	69		" " " "
		602	CS2	S			18	000	68		" " "
		668	CS2	S			31	317	65		" " "
		721	PS2	-			T	T	76		S_2 defined by Sph & Py banding.
		783	PS2	-			T	T	69		micaceous fltns & compostnl banding present. S_2 defined by Sph banding
		847	CS2	M			17	293	79		Fold nose present in interval micaceous fltns present.
		896	CS2	S			27	327	71		Fold nose present in interval micaceous fltns & compostnl banding
		974	CS2	S			23	301	66		micaceous fltns & compostnl banding present.
		1042	PS2	-			T	T	73		chlorite banding defines S_2 compostnl " also present.
		1076	PS2	-			T	T	64		micaceous fltns & compostnl banding present.
		1155	PS2	-			T	T	68		" " "
		1201	CS2	Z			29	216	72		" S_2 defined by Sph banding
		1259	CS2	Z			27	181	63		micaceous fltns & compostnl banding present.
		1297	CS2	S			20	339	75		" "
		1323	PS2	-			T	T	75		" " "
							EOH				

PROJECT _____ DRILLHOLE NO. 81-G-C8 COORDINATES: N _____ DATE 9 JUL 1981

LOCATION _____ HOLE SIZE _____ E _____ PAGE 1 of 3

LOGGER K. ROBERTS INCLINATION _____ ELEVATION _____

PITEAU & ASSOCIATES
GEOTECHNICAL CONSULTANTS
VANCOUVER CALGARY

GEOTECHNICAL CORE LOG

DEPTH (TO) 15	LENGTH OF RUN 15	CORE RECOVERY LENGTH 3.0	CORE RECOVERY (m) Length .9	ROD LENGTH 0.35	ROD (m) Length	HARDNESS	DEGREE OF BREAKAGE CATEGORY 6	DEGREE OF BREAKAGE NO.	DEGREE OF WEATHERING E	ROCK TYPE	BEDDING DIP DEPTH	BEDDING DIP ANGLE	BEDDING JOINTS NO.	BEDDING JOINTS FREQ.	CROSS JOINTS NO. 1	CROSS JOINTS FREQ.	(m) depth (to) 4.6	COMMENTS	(m). Length of Run 4.6
18	3.0	3.0	.9	0	0		6		E						1		5.5		.9
25	7.0	7.0	2.1	0	0		6		E						2		7.6		2.1
30.5	5.5	3.8	1.2	0	0		6		E						1		9.3		1.7
35	4.5	4.2	1.3	0.35	.1		7		E						1		10.7		1.4
39.5	4.5	4.5	1.4	0.85	.3		9		E						1		12.0		1.4
42.5	3.0	3.0	.9	0	0		6		E						0		12.9		.9
47	4.5	2.9	.9	0	0		6		E						1		14.3		1.4
54	7.0	4.8	1.5	0	0		6		E						0		16.4		2.1
61	7.0	3.8	1.2	0	0		6		E						2		18.6		2.1
64	3.0	2.9	.9	0.40	.1		7		E						0		19.5		.9
66.5	2.5	1.6	.5	0	0		7		E						1		20.3		.8
71	4.5	4.2	1.3	0	0		7		E						2		21.6		1.4
81	10.0	10.0	3.0	2.75	.8		9		E						1		24.7		3.0
87	6.0	6.0	1.8	0.35	.1		9		E						2		26.5		1.8
97	10.0	10.0	3.0	3.75	1.1		10		E						2		29.6		3.0
104	7.0	6.9	2.1	0.80	.2		9		E						1		31.7		2.1
114	10.0	8.7	2.7	1.3	.4		7		E						3		34.7		3.0
117.5	3.5	3.3	1.0	1.2	.4		10		E						1		35.8		1.1
125	7.5	7.5	2.3	2.0	.6		10		E						1		38.1		2.3
134	9.0	8.0	2.4	3.75	1.1		10		E						1		40.8		2.7
137	3.0	3.0	.9	0.35	.1		7		E						1		41.8		.9
145	8.0	8.0	2.4	1.55	.5		9		E						1		44.2		2.4
155	10.0	10.0	3.0	0.80	.2		7		E						2		47.2		3.0
161	6.0	4.1	1.2	0	0		7		E						1		49.1		1.8
165.5	4.5	4.5	1.4	0	0		6		E						2		50.4		1.4
168	2.5	2.0	.6	0	0		3		E						1		51.2		.8
173	5.0	4.3	1.3	0	0		6		E						2		52.7		1.5
179.5	6.5	6.5	2.0	0	0		7		E						1		54.7		2.0

Fig. 1. Typical rock mechanics core log.

PROJECT _____ DRILLHOLE NO. 89-G-08 COORDINATES: N _____ DATE 9 JUL 1989

LOCATION _____ HOLE SIZE _____ E _____ PAGE 2 of 3

LOGGER K.R. [illegible] INCLINATION _____ ELEVATION _____

PITEAU & ASSOCIATES
GEOTECHNICAL CONSULTANTS
VANCOUVER CALGARY

GEOTECHNICAL CORE LOG

DEPTH (TO)	LENGTH OF RUN	CORE RECOVERY		RQD		HARDNESS	DEGREE OF BREAKAGE		DEGREE OF WEATHERING	ROCK TYPE	BEDDING DIP		BEDDING JOINTS		CROSS JOINTS		(m) depth (to)	COMMENTS	(m) length of run
		LENGTH	length (in)	LENGTH	length (in)		CATEGORY	NO.			DEPTH	ANGLE	NO.	FREQ.	NO.	FREQ.			
187	7.5	7.5	2.3	2.35	.7		9		E						2		56.9		2.3
197	10.0	10.0	3	1.05	.3		9		E						1		60.0		3
209	7.0	7.0	2.1	0.40	.1		7		E						2		62.2		2.1
2095	5.5	5.3	1.6	0.45	.14		9		E						2		63.9		1.7
215	5.5	5.1	1.6	2.80	.8		10		E						0		65.5		1.7
223	8.0	8.0	2.4	3.15	1.0		9		E						2		67.9		2.4
231	8.0	7.9	2.4	4.05	1.2		12		E						2		70.4		2.4
2355	4.5	4.5	1.4	1.00	.3		9		E						2		71.8		1.4
239	4.5	4.1	1.2	0.85	.3		9		E						3		72.8		1.4
249	10.0	10.0	3	4.95	1.5		10		E						1		75.9		3
257	8.0	8.0	2.4	3.35	1.02		9		E						5		78.3		2.4
262	5.0	5.0	1.5	0.00	0		6		E						2		79.8		1.5
272	10.0	10.0	3	1.82	.6		8		E						4		82.9		3
277	5.0	5.0	1.5	0.00	0		8		E						1		84.4		1.5
287	16.0	10.0	3	3.10	.9		10		E						1		87.5		3
297	10.0	10.0	3	3.15	1.0		10		E						0		90.5		3
307	10.0	10.0	3	1.25	.4		7		E						2		93.6		3
317	10.0	9.6	2.9	1.45	.4		7		E						1		96.6		3
327	10.0	10.0	3	4.30	1.3		9		E						1		99.7		3
337	10.0	9.9	3.0	2.95	.9		8		E						2		102.7		3
347	10.0	10.0	3	3.30	1.0		8		E						2		105.8		3
357	10.0	10.0	3	1.25	.4		7		E						1		108.8		3
361	4.0	4.0	1.2	6.00	0		2		E						1		110.0		1.2
367	6.0	3.7	1.0	8.00	8		1		E						3		111.9		1.03
371	4.0	3.8	1.2	0.00			6		E						2		113.1		1.15
377	6.0	6.0	1.8	.35	.1		7		E						4		114.9		1.8
387	10.0	10.0	3	3.50	1.1		10		E						3		117.9		3
394	7.0	6.8	2.1	1.15	.4		7		E						3		120.1		2.1
404	10.0	10.0	3	3.90	1.2		10		E						2		123.1		3

Fig. 1. Typical rock mechanics core log.

PROJECT _____ DRILLHOLE NO. 89-6-08 COORDINATES: N _____ DATE 9 JUL 1989

LOCATION _____ HOLE SIZE _____ E _____ PAGE 3 of 3

LOGGER K. ROBERTS INCLINATION _____ ELEVATION _____

PITEAU & ASSOCIATES
GEOTECHNICAL CONSULTANTS
VANCOUVER CALGARY

GEOTECHNICAL CORE LOG

DEPTH (TO)	LENGTH OF RUN	CORE RECOVERY		RQD		HARDNESS	DEGREE OF BREAKAGE		DEGREE OF WEATHERING	ROCK TYPE	BEDDING DIP		BEDDING JOINTS		CROSS JOINTS		(m) depth (to)	COMMENTS	(m) length of run
		LENGTH	length (m)	LENGTH	length (m)		CATEGORY	NO.			DEPTH	ANGLE	NO.	FREQ.	NO.	FREQ.			
410	6.0	6.0	1.8	1.15	.4		9		E						0		124.9		1.8
420	10.0	10.0	3	0.45	.1		7		E						4		128.0		3
423.5	3.5	3.2	1.0	0.00	0		2		F						0		129.0		1.1
431	7.5	7.5	2.2	0.35	.1		7		E						3		131.4		2.3
434	3.0	2.9	.9	0.70	.2		7		E						1		132.2		.9
						—	end of hole		—										

Fig. 1. Typical rock mechanics core log.

DDH 89G-08 CURRAGH RESOURCES INC. Page ____ of ____

Logged by WR

ASSAY LOG (SAMPLER'S COPY) Date JULY 15/89 Sampled by ____

CODE	FROM	TO	SAMPLE	INTR.	REC (m)	UNIT	DESCRIPTION
1	10 04	16 65 20	22 0 26	28 65 30	32 34	36 WASTE 40	42
	65 3 / 214 1	65 6 / 215 4	41819	13	.4 / 12	4E17	
	215 4	66 3 / 217 6	41820	22	.6 / 20	4D4	(5A6) minor
	217 6	66 9 / 219 5	41821	19	.6 / 19	5A69	
	219 5	67 8 / 222 5	41822	30	.9 / 30	4C0	5 minor
	222 5	69 2 / 227 0	41823	45	1.4 / 45	4C0	" " micaceous "
	227 0	70 6 / 231 5	41824	45	1.4 / 45	4C0	" "
	231 5	72 2 / 237 0	41825	55	1.6 / 53	4C0	" "
	237 0	73 3 / 240 4	41826	34	1.0 / 34	4C0	" "
	240 4	74 5 / 244 5	41827	41	1.2 / 41	4C0	" "
	244 5	75 9 / 249 0	41828	45	1.4 / 45	4C0	" "
	249 0	77 2 / 253 4	41829	44	1.2 / 41	4C0	" "
	253 4	78 5 / 257 7	41830	43	1.3 / 43	4C0	" "
	257 7	79 9 / 262 0	41831	43	1.3 / 43	4C0	" "
	262 0	81 4 / 267 0	41832	50	1.5 / 50	4C0	" "
	267 0	82 8 / 271 8	41833	48	1.5 / 48	4C0	" "
	82.8	97.8	0	15.0		WASTE	
	97 8 / 320 9	98 4 / 322 8	41834	19	0.5 / 17	4C35	
	322 8	100 4 / 329 5	41835	67	2.0 / 67	5A619	± $
	329 5	102 1 / 335 1	41836	56	1.6 / 54	4D0	"chloritic"
	335 1	103 3 / 339 0	41837	39	1.2 / 39	4L24	"stringered"
	339 0	104 5 / 342 9	41838	39	1.2 / 39	4L24	"STRINGERED"
	104.5	109.7	0	5.2		WASTE	4.4
	109 7 / 360 0	110 9 / 363 8	41839	38	1.1 / 37	4A0	± 4 5
	363 8	111 2 / 364 8	41840	10	.3 / 10	5D6$	5 3.7
	364 8	112 6 / 369 4	41841	46	1.4 / 46	4A4	(4D0) minor
	369 4	113 1 / 371 1	41842	17	0.5 / 17	4A	Breccia + Gouge
	371 1	116 2 / 381 3	41843	102	3.1 / 102	5D6$	(4A4) trace
	381 3	116 7 / 382 8	41844	15	.4 / 15	4A4	
	382 8	118 3 / 388 1	41845	53	1.6 / 52	5D6$	(4A4) trace.
	388 1	119 8 / 393 1	41846	50	1.5 / 50	4A4	(4D0) 50:50
	393 1	121 2 / 397 5	41847	44	1.3 / 44	4A4	(4D0) 70:30
	397 5	122 7 / 402 6	41848	51	1.5 / 51	4A4	(4D0) 80:20
	402 6	123 9 / 406 5	41849	39	1.2 / 39	4A4	(4D0) 80:20
	123.9	132.3	0	8.1		WASTE	
		EOH					

89-G-09

CURRAGH RESOURCES INC.

Page 1 of ____

DIAMOND DRILL CORE LOG

Date: _____

Hole Number: 89G-09

Reference Fabric Orientation Diagram:

Project: 1989 GRUM DEPOSIT DRILL

Location: GRUM DEPOSIT

Claim: _____

~~UTM~~ Terr.Plane Co-ords.: 6905306.114 N 6,697.07 N

592177.132 E 2,882.52 E

Grid Co-ords: 84W 9N

Elevation: 1308.638

All symmetry determinations looking

Total Depth: 417 (ft) 127 (m)

_____ with _____ dipping

Inclination: -65° NE

_____ with dip azimuth _____.

Purpose: TO TEST NW SECTION OF OREBODY

Reason hole Terminated: DRILLED INTO FOOTWALL

Logged by: C.V. REED

Date(s) Logged: _____

Drilling Contractor: ARCTIC

Size	CORE From	To
NW		
NQ		

Collar Cased and Capped: ____

Hole Cemented: NO

Steel down Hole: NO

Assay Lab: _____

Certificate No's: _____

Started: July Completed: _____

CURRAGH RESOURCES INC.

Diamond Drill Core Log

DDH 89G-09 (2 8)

Date: JULY 10/89 Logged By: _____

Code	Drillhole	Elevation	Northing	Easting	Units (feet/metres)	R.F.E.	
	2 8	10 16	17 24	25 32	34 39	41 42	
T	89G-09						

Code	Drillhole	Depth	Zenith Angle	True Azimuth	Comments
	2 8	10 14	22 26	28 32	34 56
R	89G-09	100	-165.0	014/210	AT COLLAR
R	89G-09	1254	-163.7	011910	SPERRY SUN
R	89G-09	1404	-166.8	015140	SPERRY SUN
R			.	.	
R			.	.	
R			.	.

DDH 29-69 (2–8)

CURRAGH RESOURCES INC.
Structural Log

Date: July 9 Logged By: A. Reznik

Code (1)	From (10–14)	To (in meters) (16–20)	Feature (22–24)	Sym (26)	S_0 Dip (28–32)	S_0 Direct.	S_1 Dip (34–38)	S_1 Direct.	S_2 Dip (40–44)	S_2 Direct	Description
		101	PS2	-			T	TT	66		Micaceous fltns present
		122	CS2	M			2	TT	59		" "
		235	CS2	S			20	333	67		Micaceous fltns & comp banding present.
		277	CS2	S			30	340	68		" " "
		288	CS2	S			18	278	83		comp. banding present.
		369	CS2	Z			29	233	71		" " "
		445	CS2	S			38	010	68		comp banding & micaceous fltns present.
		506	CS2	S			25	010	64		comp banding present. S_2 is crenulated.
		512	PS2	-			T	TT	62		comp banding present S_2 is crenulated
		619	PS2	-			T	TT	68		chlorite banding defines S_2.
		652	PS2	-			T	TT	64		micaceous fltns & comp banding are present.
		750	CS2	S			35	328	67		" " "
		841	PS2	-			T	TT	70		chlorite banding defines S_2 comp. banding present
		880	PS2	-			T	TT	62		Sph banding defines S_2.
		939	CS2	S			30	315	65		comp banding present.
		1003	CS2	S			24	325	63		comp banding & micaceous fltns present
		1099	PS2	-			T	TT	63		Sph + Py Banding define S_2.
		1164	CS2	S			18	335	67		comp banding & micaceous fltns present.
		1195	PS2	-			T	TT	50		chlorite banding defines S_2.
		1225	PS2	-			T	TT	54		micaceous fltns & comp. banding present.
						EOH					

DDH 89-6-09 (2 / 8)

CURRAGH RESOURCES INC.

Lithologic Log

Date: July 16/89 Logged By: C. REED

Code	From	To	Recov.	No.	Unit	Description
1	10 14	16 20	22 24	26 28	30 34	35
	000	140		1	#	tricone d/no recovery
		43				
	140	190		2	5B0	moderately weathered
		58				mod soft, light to medium grey. PS2 foliated
						musc. phyllite, S_2 surfaces where fresh are
						light steel grey, contains abundant thin qtz +
						calcite bands and laminae defining S_2 core
						rusted along fractures and in patches on S_2
						TOI + 15.5 very broken along S_2, recry. good
						15.5 - EOI core mod broken along fracture + S_2
						recry good.
	190	510		3	5B0	
		155				- same as unit 2, rust weathering absent
						core is locally CS2 foliated defined by qtz. +
						calcite microlithons, unit is light grey becoming
						darker down hole, contains abundant local
						brecciated thin white pegmatitic qtz. veins, local
						veins have pale green chlorite selvages,
						TOI - 24.7 mod. broken along S_2 recry good
						24.7 - 27 rubble 0.6 recry - likely mislatch
						27 - 35.5 mod. broken recry. good
						35.5 - 37.5 v. broken 1.2 ft recry
						37.5 - 42.4 mod. broken recry. Good
						42.4 - EOI v. broken. 47 - 50.5 core highly
						fractured and locally brecciated 1 ft. recry

DDH 84-G-09 (2 8)

CURRAGH RESOURCES INC.

Lithologic Log

Date: 16/07/89 Logged By: C. Reid

Code	From	To	Recov.	No.	Unit	Description
1	10 14	16 20	22 24	26 28	30 34	35
						50.5 - EOI intact by pegmatitic qtz vein
	5110	1412		4	5A0	(5B80) ratio 98:2
		430				dominant unit dark grey - black, calcareous, carb-
						oraceous, locally CS2 foliated mod. - soft
						phyllite, abundant fine light grey qtz + calcite
						microlithons and bands, S_2 surfaces are dark
						grey - black, mark fingers, contains local minor
						small black chert nodules within qtz + calcite
						siltstone bands, nodules align parallel to these
						bands, contains usual amounts of pegmatitic
						qtz. veins qtz. + calcite + dol ± fine py infill
						local X-cutting fractures
						81.6 - 82.1 pale green - grey, mod. soft calcareous
						chloritic phyllite, abundant thin qtz + calcite
						lithons, margins of chloritic phyllite parallel
						to S_2
						TOI - 67.0 v. broken along S_2, 9.2 ft recry
						core loss appears to be between 60.5 - 66 some
						minor flakely rubble recovered, doesn't appear
						to be a fault
						67 - 82.8 mod. broken, recovery good
						82.8 - 87.5 v. broken along S_2 recry good,
						87.5 - EOI core mod. broken along S_2 local
						fractures recy good.

DDH 89-G-09 (2 / 8)

CURRAGH RESOURCES INC.

Lithologic Log

Date: July 16/89 Logged By: C.V.R

Code	From	To	Recov.	No.	Unit	Description
1	10 14	16 20	22 24	26 28	30 34	35
	1411 2	1496		5	5.00	(5A0)
		456				Mixed unit of dominantly thinly PS2 laminated
						locally CS_2 foliated v. calcareous chloritic
						phyllite; S_2 surfaces are pale olive green,
						interbanded with this unit in intervals ranging
						from 3" - 2ft are dark grey - black CS_2
						foliated v. calcareous carbonaceous phyllite,
						margins of these bands are sharp // to
						S_2; within chloritic phyllite intervals are
						local rounded dark grey, v. hard chert nodules;
						nodules are squashed // to S_2 and range
						from 1-3cm along the major axis.
						Interlayed within the chloritic phyllite near
						the chert nodules on a scale of 1mm - 1cm
						are light grey musc laminae // to S_2
						- core mod. Broken, recy. good.
	1496	1616		6	5.A0	± 7 minor
		493				CS_2 foliated, mod. soft, dark grey - black,
						carbonaceous, v. calcareous phyllite. S_2 surface
						black, rusty fingers. Contains local thin
						pale green chloritic laminae defining S_2
						and locally defining kinkbands. Chloritic-
						rich laminae likely are meta-tuffs.
						Contains local rusted py + fine grained
						agglomerates inducing fractures. Local small

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CURRAGH RESOURCES INC.

Lithologic Log

Date: July 16 Logged By: C. V. R

Code	From	To	Recov.	No.	Unit	Description
1	10 14	16 20	22 24	26 28	30 34	35
						rounded chert nodules occur within fine grain qtz-siltstone bands. Top five feet v fissile along S_2, core v. broken, recry. o.k. 154.6 - EOT mod. broken, recry good.
	1616	1653		7	5D0	(5B0) ratio 70:30
		504				Mix unit dominantly pale olive green & tan white striped chloritic phyllite. Abundant interstitial calcite occurs within thin bands generally < 3mm, // to S_2. S_2 surfaces dull olive green. Interbanded at regular intervals ranging from 3 - 5 inches are light grey (CS_2) foliated v calcareous musc. phyllite bands. Margins are sharp // S_2. Chlorite-rich intervals appear to be meta-tuffs within meta-pelites?. Core mod. broken, recry. good.
	1653	1669		8	5A0	"
		509				Highly fractured, dark grey to black mod. calcareous carbonaceous phyllite. CS_2 foliated local incipient gouge along late X-cutting fractures. Core v. broken, recry. good
	1669	1803		9	5D0	(5B20) ratio 95:5
		1840				Pale olive green & cream white striped v.

C.R.L. 1987 F-7A

DDH 89-6-09
2 8

CURRAGH RESOURCES INC.
Lithologic Log

Date: July 16/89 Logged By: C.V. R

Code	From	To	Recov.	No.	Unit	Description
1	10 14	16 20	22 24	26 28	30 34	35
						calcareous dominantly PS_2 foliated (locally CS_2 foliated) chloritic phyllite. Locally highly broken along steep fractures abundant thin x-cutting fractures infilled with qtz + calcite
						179.0-179.6 dark grey mod. carbonaceous CS_2 foliated, calcareous phyllite. Margins sharply ∥ to S_2
						TOI - 167.9 mod. broken recry good.
						167.9 - 170.2 v. broken along steep fracture recry. good.
						170.2 - 178.0 mod. broken, recry good.
						178.0 - 179 rubble due to fracture, incipient goudge along fracture
						179 - EOI mod. broken recry. good
	1808	1915		10	5A0	(5B20) (5D0) ratio 70:20:10
		584				mixed unit, chloritic phyllite & carbonaceous phyllite. Dominant unit is mod. calcareous CS_2 foliated carbonaceous phyllite. Top 1.9 ft of unit carbon less abundant is "fence-sitter" are 5B2. Interbanded with carbonaceous phyllites are thin co-folial bands of pale green & white striped chloritic phyllite. Same as unit 9
						TOI - 187.5 mod. broken, recry. good

DDH 89-6-09 (2 8)

CURRAGH RESOURCES INC.

Lithologic Log

Date: July 16/89 Logged By: C. V. R

Code	From	To	Recov.	No.	Unit	Description
1	10 14	16 20	22 24	26 28	30 34	35
						187.5 - 189 rubble due to fracture
						189 - EOI V. broken along S_1
	1915	2067		11	SDOS	
		630				Mod. soft, pale olive green, dolomitic calcareous chloritic phyllite. Contains abundant, thick light grey qtz + calcite + dol. bands. Bands range up to 3cm thick and are locally broken and displaced along fractures. Unit is PS_2 banded
						TOI - 195 rubble, local incipient gaudge 1.5 feet recovered
						195 - 199 rubble and gaudge only 1.1 feet recovered maybe significant fault.
						198 - 201 slightly broken recy good
						201 - EOI V. broken along S_2 and local fracture recy. good.
	2067	2130		12	SBZ70	(SDO) ratio 85:15
		701				Dominant unit dark grey, mod. soft calcareous CS_2 banded & laminated locally chloritic phyllite. Chlorite occurs locally in thin bands and laminae 11 to S_2. S_2 surface dark steel grey. Contains local lithons defined by thin qtz - siltstones bands

DDH 89-6-09

CURRAGH RESOURCES INC.
Lithologic Log

Date: July 16/89 Logged By: C. V. R

Code	From	To	Recov.	No.	Unit	Description
1	10 14	16 20	22 24	26 28	30 34	35
						221.7 - 226.6 Locally CS_2 banded pale olive green and tan white striped v calcareous chloritic phyllite. Local thin qtz + calcite bands define S_1 + S_2. Top margin of chloritic phyllite is sharp ∥ to S_2, bottom contact is brecciated
						TOI - 211.1 v. broken along S_2 + fractures 2.9 ft recry.
						211.1 - 214.5 mod broken along S_2, recry good
						214.5 - 223.2 v. broken, recry. good
						223.2 - 227.6 v. broken + brecciated 1.4 feet recry. Doesn't appear to be significant fault. Core lose probably due to mechanical problems.
						227.6 - EOI v. broken. 1.1 feet recry.
	2300	2467		13	506$	±4 (400) ratio 95:5
		752				Thinly laminated and banded pale olive green mod. soft dolomitic chloritic phyllite. Unit is PS_2 banded defined by variations in dolomite concentration.
						235.3 - EOI Core extremely broken + locally gaudged along fractures. Recry is poor, locally dolomite, qtz bands define S_1. At 246.0 these bands define a phase two S-fold.
						TOI - 231 v. broken, along S_2 + local fractures recry. is good
						231 - 233.6 core mod broken recry good

DDH 89-6-09 (2 8)

CURRAGH RESOURCES INC.
Lithologic Log

Date: July 16/89 Logged By: C. V. R.

Code	From	To	Recov.	No.	Unit	Description
1	10 14	16 20	22 24	26 28	30 34	35
						233.6 - 237 v. broken along steep fracture 1.8 ft recry.
						237' - 244 rubble, Fragments appear to be incipiently brecciated 1.6 feet recry.
						244 - EOI v. broken, 2.5 feet recry.
						232.6 - 233.4 + 244.7 - 248.6 v. hard Thinly PS_2 banded, light grey quartzite. Banding defined by v. thin diffuse red/brown sph. + interstial qtz. Bands ~20% of unit volume. Estimated % Pb+Zn is 6-7% dominantly sph. Local bands contain minor disseminated py. Margins of quartzite band 11 to S_2 and are brecciated
	2467	2500	0	14	5D14*	(altered zebra-rock)
		762				v. soft olive green + tan striped altered chloritic dolomitic phyllite (ankaritic?)
						TOI - 248.6 v. broken, incipient gaudge along fractures recry. O.K
						248.6 - EOI v. soft phyllitic gaudge and breccia fragments. 0.6 ft. recry.
	12510	12610	6	115	5B6B17	(1080) 90:10
		794				Laminated unit CS_2 foliated, mod soft, light → medium grey, dolomitic muscl chl phyllite. Local chl laminations defining S_1 + S_2. Dolomite occurs interstitial to qtz

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CURRAGH RESOURCES INC.
Lithologic Log

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Date: Jul 17/89 Logged By: CVR

Code	From	To	Recov.	No.	Unit	Description
1	10 14	16 20	22 24	26 28	30 34	35
						in siltstone bands + laminae. Locally, siltstone bands + laminae
						define microlithons.
						TOI → 257.9 m̄ broken, recy good
						257.9 → 258.9 v̄ broken recy good
						258.9 → 260.1 white-grey phyllite gouge recy O.K
						260.1 → EOT brecciated quartz vein + phyllite fragments
						recy good.
	2606	2670		16		MISLATCH - NO CORE
		814				
	2670	2730		17	4A0	
		832				Dark grey → black, ribbon banded carbonaceous quartzite.
						S2 surfaces black - mark fingers. Ribbon banding thin, poorly
						developed + diffuse - defines S2. Banding dominately Qtz-Py +
						minor sph + traces of gal. Banding ≈ 10% of unit volume
						Est Pb+Zn 3-4% - MAYBE.
						TOI - 271.0 v̄ broken due to fracturing - recy good
						271.0 → EOT v̄ broken, 1.4' recovered.
	2730	2792		18	5D4*	[5C4*]
		851				mod soft, buff light green - tan, PS2 foliated,
						altered dolomitic / ankeritic? chl phyllite. S2 surfaces
						dull light tan - green. Bottom 3" contains bright green "fuchsite" spots.
						Top 3" of unit highly broken + fractured incipient
						gouge along fractures.
						273.3 → 278.4 mod broken, recy good.

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CURRAGH RESOURCES INC.
Lithologic Log

Date: 21/7/89. Logged By: CCR

Code	From	To	Recov.	No.	Unit	Description
1	10 14	16 20	22 24	26 28	30 34	35
						278.4 - EOI v̄ broken along fractures. Incipient gouge along fractures. necy O.K.
	2792	2854		19	4A0	± 4
		870				Highly broken + fractured, dark grey → black, ribbon banded carbonaceous qtzite. S_2 surfaces black-mark fingers. Qtz-Sulph bands diffuse, generally < 1/2 cm, locally 3 cm thick // to S_2. Sulph bands dominately Py + Qtz, Top 6" of unit sph > py within bands. Ribbon banding approx 15% of unit volume. Sulphides extensively re-mobilized into thin fractures. Unit locally CS_2 laminated. Margins against altered greenstone sharp // to S_2.
						Est Pb+Zn ranges from 8% in top 2-3 feet. Remaining unit ~ 2-3% dominately sph.
						TOI → 279.8 v̄ broken, necy good.
						279.8 - 281.5 rubble due to late fractures, 6" of core loss.
						281.5 - 283.0 v̄ broken, necy O.K
						283.0 - 283.8 rubble, necy O.K.
						283.8 - EOI v̄ broken along steep late fractures, necy good
	2854	2880		20	5D4*	(4A0 Bxa) 75.25
		878				Mod soft, light buff tan-green arkenitic? dolomitic? thinly PS_2 laminated altered chloritic phyllite. Top + bottom contact sharp // to S_2.
						285.8 → 286.4 highly broken + fractured, brecciated, v̄ hard

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CURRAGH RESOURCES INC.
Lithologic Log

Date: JULY 17/89 Logged By: CUR

Code	From	To	Recov.	No.	Unit	Description
1	10 14	16 20	22 24	26 28	30 34	35
						carbonaceous quartzite. Sulphides - dominately Py infill thin
						steep fractures. Est % Py 10%. Minor Sph
						Est % Pb+Zn 2-3% in qtzite.
						TOI → 286.6 v̄ broken due to X-cutting fractures,
						necry O.K.
						286.6 → EOI s̄ broken, necry O.K.
	2880	2920		211	4D4	5 weak
		890				v̄ hard, weakly carbonaceous, CS2 laminated, light grey, qtz-
						sulphide banded quartzite. Banding defined by sph > py
						+ interstitial qtz. Bands generally < 1/2 cm thick dominately
						aligned // to S2. Sulphide extensively remobilized into thin
						fractures. Bands are 10-12% of unit volume.
						Est Pb+Zn 10% - dominately Sph
						Core v̄ broken along local X-cutting fractures, necry good.
	2920	3008		212	4A10	±4 (5D4*) 98:2.
		917				Dominate unit is PS2 ribbon banded, v̄ hard, highly
						fractured + broken, carbonaceous qtzite. Banding defined by
						qtz + py > sph, generally bands < 1/2 cm thick. Banding 8-10%
						of unit volume. S̄ extensively re-mobilized into v̄ thin
						X-cutting fractures.
						Est Pb+Zn 3-4% locally may be 5-6%
						293.5 → 294.0 buff light tan-green, thinly PS2
						laminated altered dolomitic / ankeritic chloritic phyllite
						Margins sharp, // to S2. Same unit 298.4 → 298.5

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CURRAGH RESOURCES INC.
Lithologic Log

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Date: JULY 17/89 Logged By: CVR

Code	From	To	Recov.	No.	Unit	Description
1	10 14	16 20	22 24	26 28	30 34	35
						TOI → 294.0 v̄ broken due to fracturing 0.6' core loss.
						294.0 → 294.9 m̄ broken, recy good.
						294.9 → 298.4 rubble due to late fractures 2.0' rec'd.
						298.4 → 299.2 v̄ broken, recy O.K
						299.2 → 299.9 rubble, recy O.K.
						299.9 → EOI v̄ broken, recy O.K
	3008	3072		23	4D0	+ 5 weak.
		936				Light grey, CS_2 foliated, v̄ hard, thinly banded, medium grade
						pyritic qtzite. Banding is thin, diffuse defined by qtz + py
						+ sph. Sulphides locally re-mobilized into thin fractures. S_2
						surfaces light steely grey, locally dark grey along minor local
						carbonaceous folia. Banding generally < ½ cm thick and dominately
						transposed // to S_2.
						Est % Pb+Zn 5-6% Dominately sph.
						TOI → 305.0 m̄ broken, recy good.
						305.0 → EOI v̄ broken along local fractures. recy good.
	3072	3228		24	4A0	±4 (SD4*) trace.
		984				Highly broken + fractured, hard, black, CS_2 foliated
						carbonaceous qtzite. Qtz - sulph bands diffuse - poorly developed
						Dominate sulphides py + << sph. Bands are .15% of
						rock volume aligned // to S_2. S_2 surfaces dull black-
						mark fingers. Est Pb+Zn 6-8%.
						TOI - 310.1 m̄ broken recy good
						310.1 - 312.0 v̄ broken along S_2 + fractures.

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CURRAGH RESOURCES INC.
Lithologic Log

Date: JULY 17/89 Logged By: CVR

Code	From	To	Recov.	No.	Unit	Description
1	10 14	16 20	22 24	26 28	30 34	35
						312.0 - 316.1 Rubble due to abundant fractures. Minor gouge along fracture a 314.0. 314.8 - 315.0 is fragment of pale tan-green, dolomitic/ankeritic altered chl phyllite. Only 2.5' rec'd.
						316.1 - 319.5 v̄ broken 1.9' rec'd
						319.5 - EOI v̄ broken 2.7' rec'd
	3228	3254		25	5D4*	[5C4*] (4DO) trace.
		992				Dull olive green-tan, dolomitic/ankeritic, thinly FS2 laminated, mod soft altered chloritic phyllite. S2 surfaces buff pale olive green. Margins sharp // to S2. Bottom 1½' contains abundant thin, coarse grained cofolial qtz + dol veins. Veins < 1 cm thick.
						At 324.7 is 2" thick band of mod. hard, micaceous qtzite. Contains thin 1mm cofolial coarse sph + gal bands. Margins sharp // to S2.
						Core m̄ broken, very good.
	3254	3300		26	4A10	±4 "micaceous" (4CO) "micaceous (5D4* Trace) 85 15 Trace.
		1005				Dominate unit is black, mod hard, micaceous, carbonaceous qtzite. Contains abundant thin micaceous/carbonaceous laminae defining S1 + S2. Qtz-sulph banding is diffuse & thin-defined by Sph > Py. Carbon is absent in top 1' selvage against altered metabasite. Unit is CS2 foliated.
						At 326.8' 2cm thick interval of thinly laminated, dolomitic/ankeritic/chl pale green-tan metatuff?. Band defines a lithon.

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CURRAGH RESOURCES INC.
Lithologic Log

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Date: JULY 17/89 Logged By: CLR

Code	From	To	Recov.	No.	Unit	Description
1	10 14	16 20	22 24	26 28	30 34	35
						Est %Pb+Zn 4-6%. Dominately Sph.
						Core ū broken along S2 + fractures, recy O.K.
	3300	3350		27	4D0	± 5 minor "micaceous" (5D4*) trace.
		1021				Light grey, mod^l hard, sph + py banded, locally slightly
						carbonaceous qtzite. Unit highly fractured + broken. Sulph bands
						thin + diffuse - define S2. Sulphides extensively re-mobilized
						into steep fractures. S2 surfaces are silver-grey + have
						local "talcose" coatings. Sulph bands approx^l 10-12% of
						unit volume. Est %Pb+Zn 5-7% Dominately Sph.
						Local traces of thin cofolial altered chl/dol/ank
						metatuffs generally < 2 cm thick.
						Core ū broken along abundant fractures - recy good
	3350	3375		28	GOUGE	(4AO) BxA. 50:50.
		1029				TOI → 336.4 is dark grey, ū soft, flakey, mod^l carbonaceous
						gouge ± 4A fragments. Fragments generally < 2 cm Ø. Top
						margin not rec'd. 0.7' rec'd.
						336.4 → EOI Black, carbonaceous, porous, 4A bxa. Traces of
						highly disrupted py-sph bands. Sulphides re-mobilized into
						thin fractures. Recy O.K.
						Est %Pb+Zn 2-3%
	3375	3399		29	5D4*	
		1036				mod^l soft, buff green-tan, dolomitic/ankeritic locally
						CS2 foliated, altered chl phyllite. Contains local thin

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CURRAGH RESOURCES INC.
Lithologic Log

Date: July 17/89 Logged By: CVR

Code	From	To	Recov.	No.	Unit	Description
1	10 14	16 20	22 24	26 28	30 34	35
						qtz + dol bands defining S1 + Phase 2 fold nose.
						Core v̄ broken, 2.2' rec'd.
	339 9	342 8		30	4A4	
		104 4				v̄ hard, high grade, locally CS2 ribbon banded, carbonaceous
						qtzite. Banding is thin, diffuse, defined by dominate sph +
						lesser py. S2 surfaces black-mark fingers. Banding 15-20% of unit vol.
						Est % Pb+Zn 8-10%, Dominately sph.
						TOI - 341.8 rubble due to late steep fractures, mcry O.K.
						341.8 - EOI m̄ broken, recry good.
	342 8	348 8		31	5D4*	
		106 3				Buff light tan-green, thinly PS2 laminated altered v̄, dol/ank chloritic
						phyllite. S2 surfaces dull tan-green. Top contact w̄ 4A
						brecciated. Bottom contact gouged.
						Core mod- broken, recry good.
	348 8	350 5		32	5D	GOUGE (4A GOUGE) 30:60
		106 8				Top 3" rec'd is flakey cream-green chloritic gouge.
						Remaining interval is black soft carbonaceous gouge.
						Top contact not recovered. Bottom contact // to S2.
						Core is gouge. 0.8' rec'd.
	350 5	368 3		33	4A4	(5D4*) 90:10.
		112 3				Dominate unit is dark grey, v̄ hard, CS2 foliated,
						moderately carbonaceous, sph rich, ribbon banded qtzite

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CURRAGH RESOURCES INC.
Lithologic Log

Date: JULY 17/89 Logged By: CUR

Code	From	To	Recov.	No.	Unit	Description
1	10 14	16 20	22 24	26 28	30 34	35
						Ribbon banding is thin, diffuse, defines S_1 + S_2. Consist of
						dominate sph, lesser py + interstitial fine qtz. Bands are
						15-20% of unit volume. S_2 surfaces dark grey → black +
						only slightly mark fingers.
						Est Pb+Zn 8-10%, dominately Sph.
						353.5 → 355.0 is thinly PS_2 laminated, buff tan-green
						dol/ank altered chl phyllite. Within this band are two
						thin intervals of 4A4. Margins // to S_2.
						TOI → 357.1 mod broken, recy good
						357.1 → 357.7 v̄ broken, incipient gouge along fracture, recy good
						357.7 → 362.8 s̄ broken, recy good
						362.8 → EOI v̄ broken along fracture trending down core
						axis. recy O.K.
	3 6 8 3	3 7 6 7		3 4	4 D 0	"micaceous" ± 5 minor
		1 1 4 8				Light grey-white, hard, thinly PS_2 sulph banded, moderately
						pyritic, micaceous qtzite. Sulph bands thin + diffuse defined
						by Py ≈ Sph + interstitial qtz. Banding ≈ 10% of unit volume.
						S_2 surfaces silver-grey. Contains local minor paper thin carbonaceous folia.
						Core mod broken, recy good
						Est % Pb+Zn 5-6%. MAYBE
	3 7 6 7	4 1 7		3 5	5 B 6 $	± 2 weak (504*) 98:2.
		1 2 7 1				Medium to locally dark grey, noncalcareous, CS_2 foliated.
						mod soft, musc phyllite. S_2 surfaces medium steel grey -
						locally dark grey. Contains locally abundant thin qtz + dol

DDH 89GC09 (2 8)

CURRAGH RESOURCES INC.
Lithologic Log

Date: Dec 17/89 Logged By: CVR

Code	From	To	Recov.	No.	Unit	Description
1	10 14	16 20	22 24	26 28	30 34	35
						siltstone beds + laminae which commonly define microlithons. About 10% of unit volume are thin foliaform qtz veins. Margins are commonly brecciated.
						Contact at 398.6 is 5" thick band of PS_2 foliated altered ank/dol chlorite phyllite. Margins sharp // to S_2. Unit becomes gradually darker moving down the hole.
						101 → 386.5 $\bar{5}$ broken, very good
						386.5 - 388.0 $\bar{v}$ broken, " "
						388.0 - 396.5 $\bar{5}$ broken, very good
						396.5 → 397.5 $\bar{v}$ broken + rod run -
						397.5 → 406.1 $\bar{m}$ broken along S_2, very good.
						406.1 → 407.5 $\bar{v}$ broken, mod - coarse along local shear fractures, very O.K.
						407.5 → 408.0 rubble spread out, rubble due to fracturing, very O.K.
						407.5 → EOH $\bar{m}$ broken, very good.
						EOH

DDH 89G-09 CURRAGH RESOURCES INC. Page ___ of ___

Logged by CVR

ASSAY LOG (SAMPLER'S COPY) Date JULY 7/89 Sampled by ___

ROM	TO	SAMPLE	INTR.	REC (m)	UNIT	DESCRIPTION
10 14	16 81 20	22 0 26	28 8 36	32 34	36 WASTE 40	42
81 4 / 267 0	83 2 / 273 0	41850		1.6 / 5 2	14A0	
273 0	85 1 / 279 2	41901		1.6 / 5 3	5D4*	
379 2	85 9 / 282 0	41902		.9 / 2 9	14A0	±4
282 0	87 0 / 285 4	41903		1.0 / 3 4	14A0	±4
285 4	87 8 / 288 0	41904		.9 / 2 9	5D4*	
288 0	89 0 / 292 0	41905		1.1 / 3 7	14D4	5 weak
292 0	90 1 / 295 7	41906		1.0 / 3 3	14A0	±4 (5D4*) minor
295 7	91 7 / 300 8	41907		1.2 / 4 0	14A0	±4
300 8	92 8 / 304 6	41908		1.4 / 4 5	14D0	±5 weak
304 6	93 6 / 307 2	41909		1.0 / 3 4	14D0	±5 weak
307 2	95 1 / 311 9	41910		1.4 / 4 5	14A0	±4
311 9	96 4 / 316 4	41911		1.1 / 3 5	14A0	±4 (5D4*) trace
316 4	98 4 / 322 8	41912		1.5 / 5 0	14A0	±4
322 8	99 2 / 325 4	41913		.9 / 3 0	5D4*	(4D0) trace
325 4	100 6 / 330 0	41914		1.6 / 5 4	14A0	±4 (4C0) (5D4) trace 85:15: trace
330 0	102 1 / 335 0	41915		1.3 / 4 2	14D0	±5 "micaceous" (5D4*) trace
335 0	102 9 / 337 5	41916		.8 / 2 5	5D	(4A) GOUGE
337 5	103 6 / 339 9	41917		.7 / 2 3	5D4*	
339 9	104 5 / 342 8	41918		1.0 / 3 4	14A4	
104.5	106.8	0		2.3	WASTE	
106 8 / 350 5	107 7 / 353 5	41919		.9 / 3 0	14A4	
353 5	108 2 / 355 0	41920		.4 / 1 2	5D4*	(4A4) minor
355 0	109 6 / 359 7	41921		1.7 / 5 5	14A4	
359 7	111 1 / 364 5	41922		1.1 / 3 7	14A4	
364 5	112 3 / 368 3	41923		.8 / 2 5	14A4	
368 3	113 6 / 372 9	41924		1.3 / 4 3	14D0	"micaceous"
372 9	114 8 / 376 7	41925		1.2 / 4 0	14D0	"micaceous"
114.8	127.1	0	12.3		WASTE	

TEOH

5BR

4170 'EOH'

PROJECT _____ DRILLHOLE NO. 89-6-09 COORDINATES: N _____ DATE July 9 1989

LOCATION _____ HOLE SIZE _____ E _____ PAGE 2 of 3

LOGGER Reznik / Kerber INCLINATION _____ ELEVATION _____

(in metric)

PITEAU & ASSOCIATES
GEOTECHNICAL CONSULTANTS
VANCOUVER CALGARY

GEOTECHNICAL CORE LOG

DEPTH (TO)	LENGTH OF RUN	CORE RECOVERY		RQD		HARDNESS	DEGREE OF BREAKAGE		DEGREE OF WEATHERING	ROCK TYPE	BEDDING DIP		BEDDING JOINTS		CROSS JOINTS		COMMENTS
		LENGTH	%	LENGTH	%		CATEGORY	NO.			DEPTH	ANGLE	NO.	FREQ.	NO.	FREQ.	
52.1	1.52	1.52		0			7		F						1		
54.6	2.5	2.44		0.11			8		F						4		
57.6	3.0	2.4		0.54			8		F						6		
59.4	1.8	1.16		0			6		F						0		
60.4	1.0	0.44		0			6		D						3		
61.8	1.4	1.4		0.19			8		F						2		
63.2	1.5	1.5		0.22			6		E						2		
64.6	1.4	1.03		0			6		F						2		
66.1	1.5	1.48		0			7		F						1		
67.4	1.3	1.3		0.24			7		E						2		
69.2	1.8	1.07		0.11			7		F						4		
70.4	1.2	0.93		0			6		F						2		
72.2	1.8	1.33		0			7		F						3		
74.4	2.2	0.53		0			6		E						0		
75.3	0.9	0.89		0			7		E						5		
76.3	1.0	0.7		0			7		F						0		
77.3	1.0	0.99		0			7		E						2		
79.2	1.9	1.76		0.41			7		F						3		
81.4	2.2	0.24		0			6		E						0		
82.6	1.2	1.2		0			6		D						2		
83.2	0.6	0.51		0			6		D						1		
85.0	1.8	1.8		0.11			7		E						1		
86.9	1.9	1.9		0.14			7		E						4		
89.0	2.1	2.1		0.36			8		F						5		
89.6	0.6	0.48		0			7		E						0		
90.5	0.9	0.52		0			6		F						0		
93	2.5	2.5		0.26			8		E						2		

Fig. 1. Typical rock mechanics core log.

PROJECT: _____ DRILLHOLE NO 89-6-09 COORDINATES: N _____ DATE July 9 1989

LOCATION _____ HOLE SIZE _____ E _____ PAGE 1 of 3

LOGGER Kerber/Reznik INCLINATION _____ ELEVATION _____

PITEAU & ASSOCIATES
GEOTECHNICAL CONSULTANTS
VANCOUVER CALGARY

GEOTECHNICAL CORE LOG

(in metric)

DEPTH (TO)	LENGTH OF RUN	CORE RECOVERY		RQD		HARDNESS	DEGREE OF BREAKAGE		DEGREE OF WEATHERING	ROCK TYPE	BEDDING DIP		BEDDING JOINTS		CROSS JOINTS		COMMENTS
		LENGTH	%	LENGTH	%		CATEGORY	NO.			DEPTH	ANGLE	NO.	FREQ.	NO.	FREQ.	
5.8	1.52	1.28		0			7		D						3		
7.3	1.5	1.5		0			7		E						3		
8.2	0.9	0.45		0			6		E						0		
9.8	1.6	1.36		0			7		F						0		
10.8	1.0	1.0		0.11			8		F						2		
11.4	0.6	0.4		0			6		F						0		
13.1	1.7	1.61		0			8		F						0		
13.4	0.3	0.3		0			6		F						1		
14.3	0.9	0.9		0			6		E						0		
15.4	1.1	0.43		0			6		E						0		
16.6	1.2	1.01		0.22			6		F						1		
17.8	1.2	1.34		0			7		E						2		
20.1	2.3	0.98		0			7		F						2		
21.3	1.2	1.2		0			7		E						0		
23.5	2.2	2.2		0.37			8		F						2		
25.6	2.1	2.1		0			7		F						0		
26.7	1.1	1.1		0.12			7		E						2		
29.4	2.7	2.47		0.37			8		F						3		
30.6	1.2	1.2		0.11			7		F						1		
32.6	2.0	1.77		0.13			6		E						3		
34.9	2.3	2.31		0.51			9		E						3		
37.5	2.6	2.23		0.23			8		E						2		
39.9	2.4	2.4		0.16			9		F						3		
41.8	1.86	1.86		0.13			8		F						0		
44.5	2.7	2.7		1.13			10		E						1		
46.6	2.1	2.1		0.91			7		F						4		
47.9	1.3	1.3		0.11			7		E						2		
50.6	2.7	2.7		0.49			8		F						0		

Fig. 1. Typical rock mechanics core log.

89-G-10

QUICK LOG.

DDH 89G-10
2 8

CURRAGH RESOURCES INC.
Lithologic Log

Page _____ of _____

Date: _____ Logged By: _____

Code	From	To	Recov.	No.	Unit	Description
1	10 14	16 20	22 24	26 28	30 34	35
	0					
		205 0			5B0	(5D0) 90:10
		62 5				
		278 0			5B8 7	[5D FIELD] (5C*) Trace
		84 7				
		337 5			4A0 ±4	
		102 9				
		340 0			5D4	
		103 6				
		357 0			4C0	"Micaceous"
		108 8				
		369 0			4L12 4	
		112 5				
		381 0			4A0	
		116 1				
		383			GONGE	
		116 7				
		387 5			4L0	
		118 1				
		391 0			4A4	
		119 2				
		403 6			5D0	
		123 0				
		447 0			4D0	
		136 2				
		472 5			5B0	
		144 0				
		481 0			5A0	
		146 6				
		484 0			4A0	
		147 5				
		495 0			5A6	$ ±9 minor
		150 9				

EOH

CURRAGH RESOURCES INC.

Page 1 of ____

DIAMOND DRILL CORE LOG

Date: JULY 13/89

Hole Number: 89G-10

Reference Fabric Orientation Diagram:

Project: 89 GRUM DEPOSIT DEF'N DRILLING

Location: GRUM DEPOSIT

Claim: ____

UTM ~~Terr.~~ Plane Co-ords.: 6905343.570 N 6,755.57 N

592132.165 E 2,880.03E

Grid Co-ords: 86W 9N

Elevation: 1312.267

All symmetry determinations looking

Total Depth: 495(ft) 151(m)

____ with ____ dipping

Inclination: -65.0° to NE

____ with dip azimuth ____.

Purpose: ORE DEFINITION NW PIT MARGIN

Reason hole Terminated: DRILLED OUT OF ORE HORIZON

Logged by: CV. REED

Date(s) Logged: ____

Drilling Contractor: ARCTIC D.D.

Hole Cemented: No

Steel down Hole: No

Assay Lab: ____

Certificate No's: ____

CORE	Size	From ft.	To ft.
	NW	0	9.0
	NQ	9.0	495.0

Collar Cased and Capped: NO

Started: JULY 9/89 Completed: JULY 12/89.

CURRAGH RESOURCES INC.

DDH 89G-10

Diamond Drill Core Log

Date: JULY 14/89 Logged By: CJR.

Code	Drillhole	Elevation	Northing	Easting	Units (feet/metres)	R.F.E.	
	2 8	10 16	17 24	25 32	34 39	41 42	
T	89G-10						

Code	Drillhole	Depth FEET		~~Zenith~~ Angle		True Azimuth		Comments
	2 8	10 14		22 26		28 32		34 56
R	89G-10	10	0	-65.0		042.0		AT COLLAR
R	89G-10	1814	0	-66.0		051.0		SPERRY SUN SS
R	89G-10	3134	0	-66.6		055.0		SPERRY SUN SS
R	89G-10	4814	0	-68.5		061.0		SPERRY SUN SS
R				.		.		
R				.		.		
R				.		.	

DDH 89-6-10
2 8

CURRAGH RESOURCES INC.
Lithologic Log

Page 1

Date: July 18/89 Logged By: C.V.R

Code	From	To	Recov.	No.	Unit	Description
1	10 14	16 20	22 24	26 28	30 34	35
	00	12		1		tricored no recovery
		37				
	12	201		2	5D0	
		61				mod. weathered, minly laminated locally CS_2 barded, mod. soft very calcareous chloritic phyllite, contains abundant white qtz + calcite bands ranging on scale up to 2cm thick defining S_1 & S_2, abundant rust orange oxide coatings on S_2 and fracture surfaces.
						TOI - 15 very broken 2.4 ft recy.
						15 - EOI mod. broken recy good.
	201	94 0		3	5B0	(5D0 minor)
		287				light to med. grey dominantly PS_2 foliated locally CS_2 foliated, very calcareous, weakly carbonaceous musc phyllite S_2 surfaces medium steel grey contains abundant qtz + calcite sillstone bands defining S_2 & micro-folds. Within unit are local thin co-folial bands of thinly PS_2 laminated, very calcareous chloritic phyllite same as unit 5. These bands range from 2" to 8" and are <3% unit volume.
						TOI - 22 very broken along fracture recy good

DDH 89-G-10 (2 / 8)

CURRAGH RESOURCES INC.

Lithologic Log

Date July 18/89 Logged By: C.V.R

Code	From	To	Recov.	No.	Unit	Description
1	10 14	16 20	22 24	26 28	30 34	35
						22-23 rubble due to fracturing recry good
						23-29.3 very broken along S_2, recry. good
						29.3-50.4 very broken incipiently brecciated and gouged recry good
						50.4-71.2 very broken along S_2 and local fractures recry good
						71.2-73.4 poker chips recry good
						73.4-77.9 very broken along S_2 recry good
						77.9-83.4 qtz. vein, very broken 1.4 ft recry
						83.4-87.7 very broken, recry O.K.
						87.7-94 rubble only 0.9 ft core recovered
	94 0	1 1 4 4		4	5 B 3 7	
		3 4 9				light green grey, CS2 foliated, calcareous, mus + chlorite phyllite. Chlorite occurs in thin light green laminae defining S_1 & S_2. S_2 surfaces are light shiny grey with local pale green chlorite clots. Contains locally abundant thin qtz + calcite bands and laminae, defining S_2 and microlitions.
						TOI - 102.4 mod. broken, recry. good
						102.4 - 108.0 very broken, 3.4 ft. recovered
						108. - 111 rubble 1.7 ft. recovered
						111 - EOI mod. broken recry. good.
	1 1 4 4	1 3 0 0		5	5 B 1 C	(1000) ratio 90:10
		3 9 6				medium grey mod. soft very calcareous, CS2

DDH 89-G-10
2 8

CURRAGH RESOURCES INC.
Lithologic Log

Date July 18/89 Logged By: C.V.R

Code	From	To	Recov.	No.	Unit	Description
1	10 14	16 20	22 24	26 28	30 34	36
						foliated weakly carbonaceous phyllite S_2 surfaces shiny steel grey locally shiny dark grey. Contains abundant qtz+calcite siltstone bands and laminae defining S_2 & microlithons
						16 - 16.5 } highly broken & fracture white
						121.5 - 122 } pegmatitic qtz vein veins appear
						128.9 - 129.5 } to be folia-form.
						TOI - 116.5 slightly broken recy good
						116.5 - 122 very broken 4 ft. recovered core lose likely in qtz vein
						122 - 123.7 slightly broken along S_2 recy. good
						123.7 - EOI very broken along fractures & S_2
						3.8 ft core recovered
	1130	1150	4	6	5B3887	(5B0) ratio 90:10
		458				medium to light green-grey, dominantly PS_2 foliated musc. & chlorite phyllite. Contains abundant qtz + calcite siltstone laminae & bands dominantly aligned // to S_2. S_2 surfaces are light clotted silver-green, locally S_2 surfaces have tan-orange weathering coatings. Interbanded at 146 - EOI are 2 bands of light to medium grey very calcareous $\leq S_2$ foliated phyllite same as unit 5. margins of bands sharp // to S_2. Both bands 0.8 ft. thick.

DDH 89-G-10

CURRAGH RESOURCES INC.

Lithologic Log

Date: July 18/89 Logged By: C.V.R

Code	From	To	Recov.	No.	Unit	Description
						TOI - 146.0 mod. broken. recy O.K
						146 - EOI very broken along fracture & S_2
						2.5 ft recovered.
	1504	1841		7	5810	2 weak (1090) ratio 75:15
		561				dominant unit is medium to dark grey
						weakly carbonaceous locally moderately
						carbonaceous, very calcareous CS_2 foliated
						phyllite. S_2 surfaces range from shiny
						steel grey to locally shiny dark grey.
						In darker intervals S_2 surfaces only slightly
						mark fingers. Contains abundant calcite
						in thin qtz - siltstone bands & laminae
						defining S_1 & S_2. Locally in thin intervals,
						as crenulation CS_3 foliation is well
						developed CS_3 foliation is steep, trending near
						II to fold axes. Contains local traces of py,
						po infilling local fractures
						162.2 - 163.7 foliation - form white pegmatitic qtz
						veins. Similar vein at 178.9 - 179.5 and
						183 - 184.1.
						TOI - 157.5 mod. broken recy good
						157.5 - 158.8 very broken along S_2 and fractures
						recy. O.K.
						158.8 - 163.6 mod. broken recy. good
						163.6 - 165 rubble 0.7 ft recovered

DDH 89-6-10

CURRAGH RESOURCES INC.

Lithologic Log

Page 5

Date: July 18/89 Logged By: C.V.R

Code	From	To	Recov.	No.	Unit	Description
1	10 14	16 20	22 24	26 28	30 34	35
						165 - 170.0 mod broken recvy good
						170 - 174 rubble 0.6 ft. recovered.
						174 - 179.5 very broken local incipient gaudge along fractures 4 ft. recovered
						179.5 - 181 rubble 0.9 ft recovered local incipient gaudge recovered.
						181 - EOI very broken 2 ft. recovered.
	1814	1965		8	5B0	2 weak (5DO) ratio 80:20
		599				dominant unit same as 7. Interbanded w 5BO is thinly PS_2 laminated very calcareous pale olive green chloritic phyllite. Bands range up to 6" thick // to S_2
						TOI - 194.3 mod. broken 8.9 ft. recovered
						194.3 - EOI 5B rubble brecciated & gaudged Does not appear to be a significant fault 1.1 feet. recovered. Again steep local CS_2 foliation developed in thin intervals.
	1965	2294		9	5D0$	(5B73) ratio 90:10
		699				Dominant unit mod. soft pale olive green & white striped calcareous dolomitic chloritic phyllite. S_2 surfaces dull olive green. White bands defined by dominantly calcite + qtz + dol locally in bands dol > qtz. Dol. content increases moving down hole.
						207.9 - 210.1 light grey mod soft^ with coral pale green

DDH 89-G-10

CURRAGH RESOURCES INC.
Lithologic Log

Page 6

Date: July 18/89 Logged By: C. V. R

Code	From	To	Recov.	No.	Unit	Description
1	10 14	16 20	22 24	26 28	30 34	35
						laminae weakly carbonaceous calcareous phyllite. Margins of bands sharp ll to S_2. S_2 surfaces medium dull grey.
						TOI - 216.7 mod. broken, local rubble near end runs recry O.K.
						216.7 - 218.9 very broken + fissile. recry O.K
						218.9 - 225.5 mod broken, recry. good
						225.5 - EOI very broken along S_2 + steep fracture recry. good.
	2294	2695		1P	5C4*	"Leopard Rock" (5D6$ ±3) 75:25
		821				Dominate unit is pale olive green + white-tan striped altered metabasite. Dominately PS_2 laminated. Green striping generally < 2 mm defined by chl. White-tan striping ranges up to 1 cm thick defined by qtz+dol ± local interstitial calcite. Unit is v̄ soft
						Interbanded in local intervals ranging from 6" to 3.0 ft is thinly PS_2 laminated locally PS_1? laminated light pale green dolomitic, locally calcareous chl phyllite. Margins w̄ leopard rock tend to be sharp, ll to S_2. This unit is slightly harder than leopard rock intervals.
						TOI - 252.5 s̄ broken, recry good
						252.5 - 256.1 v̄ broken + fractured local incipient gouge along fractures, recry good
						256.1 - EOI mod broken, recry good

DDH 89-6-10
2 8

CURRAGH RESOURCES INC.
Lithologic Log

Page 7

Date: July 18/89 Logged By: C.V.R

Code	From	To	Recov.	No.	Unit	Description
1	10 14	16 20	22 24	26 28	30 34	35
	2695	2787		11	5D61	$ minor ±9 minor (5C4+ "fuchsite") (5B67) 90:5:5
		849				Dominate unit is mod⁻ soft, locally CS2 foliated,
						light olive green, noncalcareous chloritic phyllite. S2 surfaces
						buff light pale green contains local dolomite in thin
						tan weathered laminations defining S2.
						274.0 → 274.9. Light grey v̄ pale green chl laminations,
						PS2 foliated, noncalcareous phyllite. Margins gradational over 1-
						2".
						276.8 → 277.8 is mod⁻ soft, PS2 foliated, fractured, bright
						green + white - tan striped metabasite. Contains abundant bright
						green "fuchsite" in elongate "spots" ∥ to S2. Margins of
						this band lost in rubble. Contains qtz + dol + ank? in
						thin white - tan stripes.
						276.5 → 276.8 within 5D are thin discontinuous
						bands of red brown sph ∥ to S2. May be later
						re-mobiled sph. Sph appears to be associated w̄ thin
						white qtz veins.
						TOT → 276.8 mod⁻ broken, necy good
						276.8 → EOT v̄ broken, 1.0' rec'd.
	2787	2905		12	4A4	
		885				v̄ hard, black, nicely ribbon banded, carbonaceous qtzite
						S2 surfaces carbon black - marks fingers. Unit is Dominately
						PS2 foliated + banded, locally CS2 foliated. Banding is generally
						thin < 1cm defined by qtz + py + sph. Bands trend to
						be either Sph >> Py or locally Py >> Sph. Ribbon

DDH 89G-10 (2 – 8)

CURRAGH RESOURCES INC.
Lithologic Log

Date: July 18/89 Logged By: C.V.R.

Code	From	To	Recov.	No.	Unit	Description
1	10 – 14	16 – 20	22 – 24	26 – 28	30 – 34	35
						banding generally defines S_2 - locally defines S_1. Banding
						is 15 → 20% of unit volume.
						Est % Pb+Zn 6-8%. Dominately Sph.
						Est % Py ≈ 10%.
						Top contact of one horizon is sharp // to S_2.
						TOI → 281.0 $\bar{s}$ broken, recry good
						281.0-281.5 $\bar{v}$ broken along fractures - recry good.
						281.5 - EOI $\bar{m}$ broken, recry good.
	2905	3138		13	4A4	(4DO) 80:20
		956				Dominate unit same as #12. Overall is slightly
						lighter due to slightly less carbon. Grade is higher,
						Sph > Py in all qtz-sulphide bands. Density of bands
						same as #12. Est % Pb+Zn 10-12% Dominately Sph.
						Locally in intervals ranging from 8" to 2.0' are
						light grey $\bar{v}$ hard sph rich qtzite bands. Texturally
						same as 4A4 except carbonaceous folia are absent
						Margins of bands are subtle + gradational. 4D is
						10-12% Pb+Zn.
						Py content for entire interval is 7-8%.
						TOI → 295.0 mod broken along S_2 + local fractures. recry 0.5
						295.0 → 298.0 $\bar{v}$ " " " " " " 0.5' core loss
						298.0 → 302.0 " " " " " " " 1.6' recry.
						302.0 → 304.5 Dito 2.9' recry
						304.5 → 307.0 Dito 1.4' "
						307.0 → 308.0 intact

DDH 89G-10

CURRAGH RESOURCES INC.
Lithologic Log

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Date: July 22/89 Logged By: CVR

Code	From	To	Recov.	No.	Unit	Description
1	10 14	16 20	22 24	26 28	30 34	35
						308.0 → EOI v̄ broken along S2 + local fractures, recy good.
	313 8	316 6		14	4A	(5B) GOUGE ± Bxa
		965				Dark grey to black, flakey, carbonaceous, locally muddy, gouge
						Top margin of gouge // to S2. Bottom contact also appears
						// to S2
						Only 1.8' recovered.
	316 6	329 5		15	4A0	± 4
		1004				v̄ hard, (S2 foliated, ribbon banded carbonaceous qtzite
						Unit is black, S2 surfaces carbon black - mark fingers
						qtz-sulph bands generally < 1/2 cm - define S1 + S2.
						Banding best developed in local intervals ranging from
						8" to 2.0'. Inside these intervals, banding ≈ 20%
						of unit volume, grade ≈ 8% Pb+Zn - dominately Zn. Outside
						these intervals, banding 5-10% of unit volume. Grade
						≈ 3-4% Pb+Zn - dominately Zn.
						Py content varies from 5-12%.
						TOI → 322.5 m̄ broken, recy good.
						322.5 → 324.6 v̄ broken along steep fracture recy O.K.
						324.6 → 325.7 s̄ broken, recy O.K
						325.7 → 327.0 v̄ broken, recy O.K.
						327.0 → EOI intact.

DDH BAG-10

CURRAGH RESOURCES INC.
Lithologic Log

Date: July 22/89 Logged By: CUR

Code	From	To	Recov.	No.	Unit	Description
1	10 14	16 20	22 24	26 28	30 34	35
	3219 5	3375		16	4A4	
		1029				v̄ hard, dark grey → black, CS2 banded + foliated, high grade, ribbon banded carbonaceous qtzite. Ribbon banding dominately defines S2. S1 bands locally define D2 folds. Bands defined by dominate red-brown sph + ≤ diss py. Bands range up to 2cm thick - are approx 25% of unit volume Est Pb+Zn 12-15% - Dominately Sph
						TOI - 332.8 - slightly broken along local steep fracture. recy good
						332.8 - EOI - rubble, 3.0' rec'd Rubble due to fracture trending ∥ to core axis -
	3375	3399		17	5D6 8	@ (4AO) 95.5
		1036				Dominate unit is soft, pale green + tan striped, dolomitic, ankeritic, chloritic phyllite. Green laminations + bands defined by chl, light white-tan bands defined by qtz + dol + ankerite. S2 surfaces dull pale olive green Unit dominately PS2 foliated, locally CS2 banded + foliated.
						Top 1.2' of unit, is brecciated. Contains local clasts of 4AO. ranging up to 4" thick. Iron carbonates + minor fine py infill fractures in bxa.
						Core is v̄ broken, recy is O.K.
	3399	3501		18	5A9 6	± 1.
		1067				Mod soft → locally hard locally siliceous, CS2 foliated

DDH 89G-10
2 8

CURRAGH RESOURCES INC.
Lithologic Log

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Date: AUG 1/89 Logged By: CUR

Code	From	To	Recov.	No.	Unit	Description
1	10 14	16 20	22 24	26 28	30 34	35
						Sulphide bearing carbonaceous phyllite. Unit is noncalcareous dark grey → black
						Contains abundant thin sph > py bands defining S2. Sulphides
						extensively re-mobilized into thin bands from somewhere else // to S2. This
						unit is unusual because of high sph + gal content, it is
						only slightly altered and appears similar to surrounding
						4A yet is much softer. Locally, in thin intervals, unit is
						harder due to increasing qtz + approaches 4A
						Top contact against 5D is highly fractured + bxa'd.
						S1 trends // to core axis - "M" region?
						Est Pb + Zn 5-6% dominately Sph. Sph also infills
						thin X-cutting fractures
						TOI - 341.5 - ≅ broken along fractures, recy OK
						341.5 - FOI in broken along S2
	350 1	354 5		19	4D4	(5D*) trace.
		108 1				Mod hard, light grey, high grade, sph + gal > py
						banded qtzite. Bands are thin, generally < 0.5 cm thick
						dominately // to S2, local minor thin S1 bands.
						CS2 foliated.
						Contains local minor green-tan weathered, dolomitic chloritic metatuffs
						// to S2. Bands < 1 cm thick // to S2.
						Est Pb + Zn ≅ 12% dominately Sph.
						core ≅ broken along S2, recy good.
	354 5	361 1		20	5B9 6	(4D Bxa) 85:15
		110 1				Dominate unit is light grey mod soft, locally

DDH 89G-10 (2–8)

CURRAGH RESOURCES INC.
Lithologic Log

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Date: AUG 1/89 Logged By: CUR

Code	From	To	Recov.	No.	Unit	Description
1	10–14	16–20	22–24	26–28	30–34	35
						PS2 foliated, highly fractured - mylonitic? thinly sulphide
						banded phyllite. Contains abundant thin sph > py bands
						// to S2 - remobilized from somewhere else? Sph also infills
						thin late X-cutting fractures. S2 surfaces dark - dull grey
						Unit is noncalcareous. Est Pb + Zn 5-6% - dominately Sph.
						356.5 → 357.2 is highly fractured, hard, S^c rich
						qtzite. Sulphides extensively remobilized into thin anastomosing
						fractures. Py > Sph. Margins of 4D bxa lost in rubble
						Est %SPh + Gal 6-7%
						TOI → 357.0 v̄ broken, recy O.K.
						357.0 → 360.0 rubble. 2.2' rec'd.
						360 → EOI v̄ broken, recy O.K
	361.1	369.1		21	5B4	6 ± 9 minor ± GOUGE (SD4*) 45:55
		1125				Dominate unit is PS2 foliated, mod soft slightly
						altered, locally gouged, noncalcareous phyllite. Contains local
						v̄ thin bands of sph // to S2.
						TOI → 361.3 is flakey light grey gouge - margins // to S2.
						362.8 → 364.5 is flakey " " " margins lost in
						rubble. 0.7' rec'd
						364.5 → EOI is highly broken + fragmented, pale olive green
						dolomitic - ankeritic - chloritic phyllite. Contains local
						thin white qtz veins aligned // to S2. Unit is thinly PS2
						laminated. Margins lost in rubble.
						TOI → 361.3 gouge, recy O.K
						361.3 - 362.8 v̄ broken, highly fractured, recy O.K.

DDH 89G-10 (2 8)

CURRAGH RESOURCES INC.
Lithologic Log

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Date: Aug 1/89 Logged By: CVR

Code	From	To	Recov.	No.	Unit	Description
1	10 14	16 20	22 24	26 28	30 34	35
						362.8 → 364.5 gouge 0.7' rec'd
						364.5 → EOI rubble only 2.2' rec'd.
	3691	3812		22	4A0	± Bxa
		1162				Highly broken + fractured, v̄ hard, dark grey → black
						carbonaceous ribbon banded qtzite. Core condition is rubble w̄
						v̄ poor recov. Ribbon banding is thin, diffuse ∥ to S_1 + S_2
						defined by qtz + py > sph. Unit is CS_2 foliated. S_1 v̄
						steep ≈ ∥ to core axis. S_2 surfaces shiny black - only
						slightly mark fingers S^2 extensively re-mobilized into late
						thin fractures.
						TOI → 375.5 rubble due to abundant fractures only 1.7' rec'd
						375.5 → 377.0 " " " " " " 1.4' rec'd.
						377.0 → 378.6 " " " " " " 1.0' rec'd.
						378.6 → 380.1 4A bxa w̄ incipient gouge along fractures.
						margins not rec'd.
						380.1 → EOI, rubble 0.6' rec'd.
						Est Pb+Zn 3-4% dominately Sph → difficult to tell
						because of poor core condition.
	3812	3830		23	GOUGE	
		1167				Light grey, phyllite mud gouge. 0.5' rec'd margins
						not rec'd.
	3830	3864		24	5D0	@ # (4A0 BxA)
		1178				Dominate unit is thinly PS_2 laminated, pale olive

DDH 89G-10 (2–8)

CURRAGH RESOURCES INC.
Lithologic Log

Date: Aug 1/89 Logged By: CWR

Code	From	To	Recov.	No.	Unit	Description
1	10–14	16–20	22–24	26–28	30–34	35
						green, dolomitic, ankeritic, chloritic phyllite. S2 surfaces buff-pale dull olive green. Contain local thin qtz rich bands // to S2. Bands range up to 1/2 cm thick. Unit is highly broken + fractured.
						At 384.8 and 385.6' one two highly fractured + broken 4AO bands. Margins // to S2. Grade is nil.
						Core is rubble. 4.1' spread out rec'd.
	3864	3926		25	4A4	(5DO @ $) (4DO) 70:20:10
		1197				TOI - 390.0 v̄ hard, dark grey, dominately PS2 ribbon banded carbonaceous qtzite. Ribbon banding is thin, diffuse, defined by qtz + py ± subequal sph. Banding is 30% of unit volume. Est Pb+Zn 10%. Dominately Sph.
						390.0 → 391.3. Soft, olive green, thinly PS: laminated ankeritic/dolomitic chl phyllite same as #24. Margins of 5D sharp // to S2. S2 is locally steep - near // to S2 steep orientation due to late fracturing.
						391.3 → EOI is light grey s= banded qtzite. Same as higher 4A except carbonaceous folia "cooked" out. Est Pb+Zn 8-10%, dominately Sph.
						TOI → 387.1 rubble due to fractures, recvy O.K.
						387.1 → EOI m̄ broken along S2, recvy good.

DDH 89G-10 (2 8)

CURRAGH RESOURCES INC.
Lithologic Log

Date: Aug 1/89 Logged By: CVR

Code	From	To	Recov.	No.	Unit	Description
1	10 14	16 20	22 24	26 28	30 34	35
	392 6	404 2		26	5D08	@ (4CO bxa) 95:5
		1232				Mod soft, thinly PS2 laminated, locally S1 laminated, pale olive green dolomitic / ankeritic chloritic phyllite S2 surfaces dull olive green contains local white-grey qtz rich bands defining S1 + S2. Bands range up to 1 cm thick. Bands may be D1 sweats? locally transposed ∥ to S2.
						401.0 → 401.3 is highly fractured, v̄ hard brecciated quartzite. Py + Sph infill thin fractures. 4C is broken clast "floating" in metabasite.
						Core ī broken along S2. Recvy good.
	404 2	448 0		27	4D5	± 4
		1366				v̄ hard, CS2 foliated, slightly carbonaceous, light grey, thinly ribbon banded qtzite. Banding defined by qtz + sph ± lesser sph. Bands range from 20% of unit volume to locally up to 35%. Bands define S1 + S2 and are generally < 3-4mm thick. S2 surfaces are shiny medium grey → do not mark fingers. Unit is locally highly broken along micaceous foliations ∥ to S2.
						Grade ranges from 8-12% Pb + Zn - Not Bad Stuff.
	448 0	472 5		28	5B6	9 ± 2 ± $ weak. (10Q0) 90:10
		1440				Mod soft, locally CS2 foliated, noncalcareous, locally moderately carbonaceous phyllite. Contains local thin light grey qt ∓ dol ± sph ± gal bands + laminations defining S1 + S2. S2 surfaces shiny medium to dark grey. Contains abundant local pegmatitis

DDH 89G-10 (2–8)

CURRAGH RESOURCES INC.
Lithologic Log

Date: AUG 1/89 Logged By: CUR

Code	From	To	Recov.	No.	Unit	Description
1	10–14	16–20	22–24	26–28	30–34	35
						qtz "clasts" up to 1.0' ϕ. Margins w̄ phyllite brecciated.
						TOI-450.0 v̄ broken, recry O.K.
						450-EOI v̄ broken, recry good.
	4712 5	4810 5		29	4A10	± GOUGE (5A169) 90.10
		1465				v̄ carbonaceous, v̄ hard, black, ribbon banded qtzite.
						Core is rubble. Largest piece rec'd is 2" long. Poor core
						condition likely due to abundant late steep fractures.
						S= banding is thin diffuse - defined by qtz + py + lesser sph +
						gal. Grade difficult to estimate due to poor core
						condition - likely 2-3% Pb + Zn.
						Phyllite mud gouge at TOI → 472.7 recry O.K.
						" " " " 477.2 → 480 only 0.2' rec'd.
						May be significant fault.
						Locally interbanded w̄ this unit in intervals ranging from
						1 cm to 5cm is mod- hard, black, CS_2 foliated, siliceous,
						noncalcareous, carbonaceous phyllite. These intervals are marked
						by higher concentrations of paper thin carbonaceous folia &
						absence of qtz-sulphide bands.
						TOI → 472.7 gouge recry O.K.
						472.7 → 477.2 rubble, 4.5' spread out rec'd.
						477.2 → 480.0 gouge, 0.2' rec'd.
						480.0 → EOI v̄ broken, recry O.K.
	4810 5	4841		30	4A10	Bxa.
		1476				v̄ hard, highly fractured, ribbon banded carbonaceous qtzite bxa.

DDH 89G-10

CURRAGH RESOURCES INC.
Lithologic Log

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Date: Aug 1/89 Logged By: CCR

Code	From	To	Recov.	No.	Unit	Description
1	10 14	16 20	22 24	26 28	30 34	35
						S_2 surfaces carbon black, strongly mark fingers. Core highly broken along steep fractures. CS_2 foliated. Sulphides are dominate Py - lesser Sph + traces of gal. Sulphides extensively re-mobilized into late fractures.
						Est Pb + Zn 4-6%. Core is rubble - 2.9' rec'd.
	4841	4950			5A6	±$ ±9.
		1509				Black, carbonaceous, mod⁻ soft, locally CS_2 foliated, noncalcareous phyllite. Contains abundant thin qtz + dol ± minor Py + sph bands + laminations defining S_1 + S_2. Later than S_2 foliation locally weakly developed. S_2 surfaces shiny black + marks fingers. Py content ≈ 3-4%. Py + lesser sph also infills local late fractures.
						Core moderately broken along S_2. Recry is good.
						EOH

DDH 89-16-10 (2 / 8) CURRAGH RESOURCES INC. Page 1 of 1

Structural Log Date: July 10/89 Logged By: A. Reznik

Code	From	To (metres)	Feature	Sym	S_0 Dip Direct.	S_1 Dip Direct.	S_2 Dip Direct	Description
1	10 14	16 20	22 24	26	28 32	34 38	40 44	
		185	PSR	-		T T	58	micaceous f1tns & comp banding present.
		1125	PSR	-		T ⊓	616	" " "
		1189	PSR	-		T ⊓	616	" " "
		1210	CSR	Z		119 2615	515	" " "
		1352	CSR	Z		311 3212	515	" " "
		1379	PSR	-		T ⊓	713	" " "
		1462	PSR	-		T ⊓	517	" " "
		1521	CSR	Z		311 2610	613	" " "
		1634	PSR	-		T ⊓	312	" " " defining S_2
		1713	PSR	-		T ⊓	519	chlorite banding & comp banding define S_2.
		1744	PSI	-		116 ⊓	T	comp banding present.
		1888	PSR			T T	510	micaceous f1tns & comp banding define S_2.
		1869	CSR	Z		716 1810	513	micaceous f1tns & comp banding present. Py & Sph bands define S_2
		1939	PSR	-		T ⊓	518	" " "
		1978	CSR	S		317 129	514	micaceous f1tns & comp banding Py & Sph bands define S_2.
								Fold Nose present at 95.6m
		10155	CSR	Z		21 1810	611	micaceous f1tns & comp banding Sph bands define S_2
								Fold Nose present at 106.5m
		10161	CSR	S		212 3219	516	micaceous f1tns & comp banding present. Sph bands define S_2
		11186	CSR	S		411 118	49	micaceous f1tns & comp banding present. Sph + Py bands define S_2
								Fold Nose present at 119.2m
		11259	CSR	Z		315 1818	519	micaceous f1tns & comp banding present. Sph bands define S_2
		11305	CSR	Z		315 3218	611	micaceous f1tns & comp banding present.
		11327	PSR	-		T ⊓	613	" " " Sph bands define S_2
		11378	PSR	-		T ⊓	510	micaceous f1tns & comp. banding present.
		11487	PSR	-		T T	48	comp banding present.
		11509	CSR	Z		417 2016	610	" " "
					⊓	E10 H1 T		

DDH 89G-10 (2–8) CURRAGH RESOURCES INC.

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Logged by CUR

ASSAY LOG (SAMPLER'S COPY)

Date AUG 1/89 Sampled by _____

CODE	FROM	TO	SAMPLE	INTR.	REC (m)	UNIT	DESCRIPTION
1	10 0 14	16 84.9 20	22 26	28 30	32 34	36 WAST 40	42
✓	84.9 / 278 7	86.3 / 283 0	14751	4 2 3	1.2 3 8	4A4	
✓	283 0	87.4 / 286 7	14752	3 7	1.1 3 7	4A4	
✓	286 7	88.5 / 290 5	14753	3 8	1.2 3 8	4A4	
✓	290 5	89.8 / 294 5	14754	4 0	1.2 4 0	4A4	
✓	294 5	90.8 / 298 0	14755	3 5	1.1 3 5	4A4	
✓	298 0	92.0 / 302 0	14756	4 0	0.5 1 8	4A4	
✓	302 0	93.3 / 306 0	14757	4 0	1.2 4 0	4A4	
✓	306 0	94.6 / 310 4	14758	4 4	1.3 4 4	4A4	
✓	310 4	95.6 / 313 8	14759	3 4	1.0 3 4	4A4	
✓	313 8	96.5 / 316 6	14760	2 8	0.7 2 4	4A	5B GOUGE
✓	316 6	98.0 / 321 5	14761	4 9	1.5 4 9	4A0	±4
✓	321 5	99.2 / 325 4	14762	3 9	1.2 3 9	4A0	±4
✓	325 4	100.4 / 329 5	14763	4 1	1.2 4 1	4A0	±4
✓	329 5	101.5 / 332 9	14764	3 4	1.0 3 4	4A4	
✓	332 9	102.9 / 337 5	14765	4 6	0.9 2 8	4A4	
✓	337 5	103.6 / 339 9	14766	2 4	0.7 2 4	5D6S	@
✓	339 9	105.3 / 345 6	14767	5 7	1.7 5 7	5A9G	±1
✓	345 6	106.7 / 350 1	14768	4 5	1.4 4 5	5A9G	±1
✓	350 1	108.1 / 354 5	14769	4 4	1.1 3 7	4D4	
✓	354 5	110.1 / 361 1	14770	5 6	1.7 5 6	5B9G	(4D trace)
✓	361 1	112.5 / 369 1	14771	8 0	1.6 5 1	5B4G	±9 minor ± GOUGE
✓	369 1	114.0 / 374 0	14772	4 9	0.3 1 0	4A0	±Bxa
✓	374 0	115.0 / 377 3	14773	3 3	0.9 2 8	4A0	±Bxa
✓	377 3	116.2 / 381 2	14774	3 9	1.0 3 2	4A0	±Bxa
	381 2	117.8 / 386 4	14775	5 2	1.6 5 2	5D	5B GOUGE
	386 4	118.9 / 390 0	14776	3 6	1.1 3 6	4A4	
	390 0	119.7 / 392 6	14777	2 6	0.8 2 6	5D	(4D0) 70:30
	392 6	123.2 / 404 2	14778	1 1 6	3.5 1 6	5D0S	@
	404 2	124.2 / 407 5	14779	3 3	1.0 3 3	4D5	±4
	407 5	125.5 / 411 8	14780	4 3	1.3 4 3	4D5	±4
	411 8	126.6 / 415 5	14781	3 7	1.1 3 7	4D5	±4
	415 5	127.7 / 418 9	14782	3 4	1.0 3 4	4D5	±4
	418 9	128.9 / 423 4	14783	4 5	1.4 4 5	4D5	±4
	423 4	130.1 / 426 8	14784	3 4	1.0 3 4	4D5	±4
	426 8	131.2 / 430 5	14785	3 7	1.1 3 7	4D5	±4
	430 5	132.4 / 434 5	14786	4 0	1.2 4 0	4D5	±4

DDH 89G-10 (2–8)

CURRAGH RESOURCES INC.

Page _____ of _____

Logged by CUR

ASSAY LOG (SAMPLER'S COPY)

Date AUG 1/89 Sampled by _____

CODE	FROM	TO	SAMPLE	INTR.	REC (m)	UNIT	DESCRIPTION
1	10–14	16–20	22–26	28–30	32–34	36–40	42
	434.5	438.5 (133.7)	14787	40	1.13 5	4D5	± 4
	438.5	441.6 (134.6)	14788	31	0.93 1	4D5	± 4
	441.6	445.5 (135.6)	14789	39	1.23 9	4D5	± 4
	445.5	448.6 (136.6)	14790	26	0.82 6	4D5	± 4
	136.6	144.0	— P —	—	—	WASTE	
	472.5 (144.0)	475.5 (144.9)	14791	30	0.93 0	4A0	± GOUGE
	475.5	480.5 (146.5)	14792	50	0.82 7	4A0	± GOUGE
	480.5	484.6 (147.6)	14793	36	1.13 6	4A0	Bxa.
	147.6	150.9	—	—	—	WASTE	

PROJECT _____ DRILLHOLE NO. DDH 896-10 COORDINATES: N _____ DATE July 11 1989

LOCATION _____ HOLE SIZE _____ E _____ PAGE 1 of 4

LOGGER A. Kozak INCLINATION _____ ELEVATION _____

PITEAU & ASSOCIATES
GEOTECHNICAL CONSULTANTS
VANCOUVER CALGARY

GEOTECHNICAL CORE LOG

DEPTH (TO) (m)	LENGTH OF RUN (m)	CORE RECOVERY LENGTH (m)	CORE RECOVERY %	RQD LENGTH (m)	RQD %	HARDNESS	DEGREE OF BREAKAGE CATEGORY	DEGREE OF BREAKAGE NO.	DEGREE OF WEATHERING	ROCK TYPE	BEDDING DIP DEPTH	BEDDING DIP ANGLE	BEDDING JOINTS NO.	BEDDING JOINTS FREQ.	CROSS JOINTS NO.	CROSS JOINTS FREQ.	COMMENTS
5.5	5.5	1.7		0			6		D							3	
6.7	1.2	1.2		0			6		D							2	
7.5	.8	.71		0			6		E							2	
8.5	1.0	1.0		0			6		E							0	
9.4	.9	.9		0			6		F							1	
11.1	1.7	1.67		.10			6		F							1	
11.9	.8	.8		0			6		F							1	
13.6	1.7	1.43		.11			6		F							1	
14.0	.4	.4		0			6		F							2	
15.5	1.5	1.44		0			6		F							4	
16.3	.8	.8		0			6		F							3	
17.4	1.1	1.05		0			6		F							3	
18.4	1.0	1.0		.20			6		F							2	
18.9	.5	.4		0			6		F							1	
20.1	1.2	1.2		.13			6		F							0	
21.6	1.5	1.45		0			6		F							2	
22.3	.7	.7		0			6		F							0	
23.6	1.3	1.24		0			6		F							1	
25.6	2.0	.76		0			6		F							2	
28.7	3.1	1.35		.10			6		F							2	
29.9	1.2	1.01		.40			7		F							0	
31.5	1.6	1.6		.28			7		F							1	
32.9	1.4	.75		0			6		F							1	
33.8	.9	.58		0			6		E							1	
35.5	1.7	1.51		.20			7		E							1	
37.2	1.7	1.18		0			6		E							2	
39.5	2.3	1.57		0			6		F							2	
41.8	2.3	1.34		.28			7		F							1	

Fig. 1. Typical rock mechanics core log.

PROJECT _____ DRILLHOLE NO. DDH 896-10 COORDINATES: N _____ DATE July 11/13 1984

LOCATION _____ HOLE SIZE _____ E _____ PAGE 2 of 4

LOGGER A. Fennik INCLINATION _____ ELEVATION _____

PITEAU & ASSOCIATES
GEOTECHNICAL CONSULTANTS
VANCOUVER CALGARY

GEOTECHNICAL CORE LOG

DEPTH (TO) (m)	LENGTH OF RUN (m)	CORE RECOVERY LENGTH (m)	CORE RECOVERY %	RQD LENGTH (m)	RQD %	HARDNESS	DEGREE OF BREAKAGE CATEGORY	DEGREE OF BREAKAGE NO.	DEGREE OF WEATHERING	ROCK TYPE	BEDDING DIP DEPTH	BEDDING DIP ANGLE	BEDDING JOINTS NO.	BEDDING JOINTS FREQ.	CROSS JOINTS NO.	CROSS JOINTS FREQ.	COMMENTS
62.9	2.1	1.25		0			6		F							0	
64.5	1.6	1.25		.39			8		F							1	
66.3	1.8	1.25		.11			7		F							0	
67.4	1.1	1.25		0			7		F							1	
70.3	2.9	2.00		.22			7		F							2	
72.3	2.0	2.00		.11			7		E							0	
73.8	1.5	1.25		.14			7		E							1	
74.2	.4	.4		0			6		E							0	
75.1	1.0	.6		0			6		E							1	
76.3	1.2	1.25		.10			6		E							0	
77.4	1.2	.23		.10			6		F							0	
78.8	1.4	1.4		0			6		E							0	
79.2	.4	.4		0			6		E							2	
66.1	2.9	2.94		.31			6		E							3	
69.1	3.0	3.0		.10			6		E							0	
71.1	1.9	1.90		.10			6		F							3	
73.5	2.4	2.4		1.39			10		F							1	
76.6	3.1	3.1		1.36			10		F							1	
78.5	2.1	2.9		1.1			10		F							2	
79.2	.9	.9		.4			8		E							2	
80.4	1.2	1.2		1.2			10		F							2	
80.5	.1	.1		.1			7		E							2	
80.5	0	0		0			6		E							2	
81.6	1.1	1.1		1.1			9		E							5	
82.3	.7	.7		0			6		E							1	
82.8	.5	.5		0			6		E							1	
83.4	.6	.6		0			6		E							3	

Fig. 1. Typical rock mechanics core log.

PROJECT _____ DRILLHOLE NO. DDH 89 610 COORDINATES: N _____ DATE July 11/13 1989

LOCATION _____ HOLE SIZE _____ E _____ PAGE 3 of 4

LOGGER A. Reznik INCLINATION _____ ELEVATION _____

PITEAU & ASSOCIATES
GEOTECHNICAL CONSULTANTS
VANCOUVER CALGARY

GEOTECHNICAL CORE LOG

DEPTH (TO)	LENGTH OF RUN	CORE RECOVERY		RQD		HARDNESS	DEGREE OF BREAKAGE		DEGREE OF WEATHERING	ROCK TYPE	BEDDING DIP		BEDDING JOINTS		CROSS JOINTS		COMMENTS
		LENGTH	%	LENGTH	%		CATEGORY	NO.			DEPTH	ANGLE	NO.	FREQ.	NO.	FREQ.	
93.9	1.3	1.0		0			6		E							1	
95.1	1.2	1.2		0			6		E							2	
96.6	1.5	1.32		0			6		E							0	
98.1	1.5	1.53		.22			7		E							0	
99.4	1.3	1.41		0			7		E							4	
99.7	.3	.28		0			6		E							2	
102.3	2.6	2.1		.91			10		E							0	
102.7	.4	.25		0			5		E							0	
103.3	.6	.6		0			6		E							3	
104.7	1.4	1.4		.15			6		E							2	
105.8	1.1	.86		0			6		F							2	
108.7	2.9	2.65		.38			8		F							2	
109.7	1.0	.74		0			6		E							0	
111.4	1.7	1.35		.11			6		E							2	
112.5	1.1	.34		0			5		E							0	
114.5	2.0	.63		0			6		E							0	
114.9	.4	.37		0			4		D							0	
116.1	1.2	.89		0			3		D							0	
116.7	.6	.26		0			3		D							0	
118.3	1.6	1.41		0			3		D							0	
119.5	1.2	1.50		.33			7		E							1	
122.2	2.7	2.64		1.80			12		F							0	
125.0	2.8	2.8		1.06			12		E							1	
128.0	3.0	3.0		1.55			11		F							2	
129.4	1.4	1.4		0			6		E							0	
132.4	3.0	3.0		.81			9		F							1	
134.9	2.5	2.5		.60			9		F							2	
136.9	2.0	2.0		.17			8		F							2	

Fig. 1. Typical rock mechanics core log.

PROJECT _____ DRILLHOLE NO. DDH 89610 COORDINATES: N _____ DATE Jul/13 1989

LOCATION _____ HOLE SIZE _____ E _____ PAGE 4 of 4

LOGGER A. Reznik. INCLINATION _____ ELEVATION _____

PITEAU & ASSOCIATES
GEOTECHNICAL CONSULTANTS
VANCOUVER CALGARY

GEOTECHNICAL CORE LOG

DEPTH (TO)	LENGTH OF RUN	CORE RECOVERY		RQD		HARDNESS	DEGREE OF BREAKAGE		DEGREE OF WEATHERING	ROCK TYPE	BEDDING DIP		BEDDING JOINTS		CROSS JOINTS		COMMENTS
		LENGTH	%	LENGTH	%		CATEGORY	NO.			DEPTH	ANGLE	NO.	FREQ.	NO.	FREQ.	
139.9	3.0	3.0		.84			9		F							1	
142.3	2.4	2.4		.77			9		F							0	
144.2	1.9	1.89		.10			7		F							0	
144.9	.7	.7		0			6		E							0	
146.3	1.4	.57		0			6		E							0	
147.5	1.2	1.10		.13			6		E							0	
147.9	.4	.4		.13			6		E							0	
150.9	3.0	3.0		.50			6		F							0	
							— EOH —										

Fig. 1. Typical rock mechanics core log.

89-G-11

Quick Log.

DDH BGG-114
2 8

CURRAGH RESOURCES INC.

Lithologic Log

Page ____ of ____

Date: JULY 13 Logged By: CWK

Code	From	To	Recov.	No.	Unit	Description
1	10 14	16 20	22 24	26 28	30 34	35
	1186	1206			15B10	+2 Darker in last 20'.
	1318	1380			15D10	(5B02) 80:20
	1815	1855			15B10	2 (5B80)
	1955	1995			15B8	70 (5B2) 95:5
	2010	2060			15A1	
	2111	2168			15D1	GOUGE + Brx.
	2810	2868			15D10	(5B87) (5B02) MIXED
	2817	2863			14D10	Smash
	3017	3062			15C14	*
	3108	3160			B15D12	9 GOUGE
	3178	3190			6F4	"Fuchsite"
	3511	3518			15B14	
	3379	3401			15C14	"Fuchsite"
	3462	3503			15B12	GOUGE 4A GOUGE
	3512	3550			GOUGE	4L
	3517	3572			15C14	"Fuchsite" GOUGE
	3610	3708			14A	Rebilled 4A FRAGS.
	3614	3660				MISLATCH
	3676	3709			14A D	FRAGS
	3712	3759			15C14	"Fuchsite" GOUGE
	3777	3794			14A	FRAGS + GOUGE
	3810	3851			GOUGE	Soft carbonaceous mud
	3811	3858			15C14	* GOUGE + Brx
	3911	3973			14D10	weathered
	3915	3924			14A10	Gouged

DDH 89-11
2 8

CURRAGH RESOURCES INC.

Lithologic Log

Page 1

Date: _____ Logged By: _____

Code	From	To	Recov.	No.	Unit	Description
1	10 14	16 20	22 24	26 28	30 34	35
		401 5			4L0	
		1 2 2 4 4360			4C0	15 miner "Micaceous"
		1 2 9 8 4655 6			5B2	
		1 4 1 7 4695			5A19	→ 4AO
		1 4 3 1 4720			V0Q	
		1 4 3 9 5147 5			4AD	"MICACEOUS" Grade ranges 2 - 8%. darker veins down hole.
		1 5 6 8 5260			5B6	
		1 6 0 3				
					EOH	

CURRAGH RESOURCES INC.

Page 1 of ____

DIAMOND DRILL CORE LOG

Date: JULY 13/89

Hole Number: 89G-11

Reference Fabric Orientation Diagram:

Project: 89 GRUM DEPOSIT DEF'N DRILLING

Location: GRUM DEPOSIT

Claim: ____

Terr. Plane Co-ords.: 6905287.289 N 6,699.70 N

592156.503 E 2,354.70E

Grid Co-ords: 84W 8N

Elevation: 1309.996

All symmetry determinations looking

Total Depth: 526(ft) 160.0(m)

____ with ____ dipping

Inclination: -65° to NE

____ with dip azimuth ____.

Purpose: ORE DEFINITION NW PIT MARGIN

Reason hole Terminated: DRILLED OUT OF ORE HORIZON

Logged by: C.V. REED

Date(s) Logged: ____

Drilling Contractor: ARCTIC

Hole Cemented: NO Steel down Hole: NO

Assay Lab: ____

Certificate No's: ____

Size	CORE From ft	To ft
NW	0	12.0
NQ	12.0	526.0

Collar Cased and Capped: ____

Started: JUL 09/89 Completed: JUL 12/89

C.R.I. 1987 E - 1

CURRAGH RESOURCES INC.

Diamond Drill Core Log

DDH 89G-11 (2 … 8)

Date: _____ Logged By: _____

Code	Drillhole (2–8)	Elevation (10–16)	Northing (17–24)	Easting (25–32)	Units (feet/metres) (34–39)	R.F.E. (41–42)	
T	89G-11						

Code	Drillhole (2–8)	Depth (10–14)	Zenith Angle (22–26)	True Azimuth (28–32)	Comments (34–56)
R	89G-11	0	-65.0	.	AT COLLAR
R	89G-11	112 / 368	-66.8	015.0	SPERRY SUN
R	89G-11	157 / 518	-69.0	016.0	? DOUBLE EXPOSURE
R			.	.	
R			.	.	
R			.	.	
R			.	.	
R			.	.	
R			.	.	
R			.	.	
R			.	.	
R			.	.	
R			.	.	
R			.	.	
R			.	.	
R			.	.	
R			.	.	
R			.	.	
R			.	.	
R			.	.	
R			.	.	
R			.	.	
R			.	.	
R			.	.	
R			.	.	

Code	Drillhole (2–8)	Comments, Errant Remarks, Snivellings and / or Lewd Suggestions (10–56)

DDH 89G-11
2 8
FEET

CURRAGH RESOURCES INC.
Lithologic Log

Date: July 31/89 Logged By: LCP

Code	From	To	Recov.	No.	Unit	Description
1	10 14	16 20	22 24	26 28	30 34	35
	0 0	12 0		1	#1	TRICONED — NO RECOVERY
		3 7				
	12 0	21 7		2	5B20	(5B70) 60:40
		6 6				TOI - 16.0 feet consists of soft, calcareous, pale olive, thinly banded, CS2-foliated phyllite. S2 surfaces are silvery greenish grey. Locally S2 has patchily developed orange iron oxide weathering surface. S1 microlithons defined by pale grey qtz-calcite siltstone bands which have internal folds. Siltstone compositional bands are up to 5cm thick.
						16.0 - EOI Gradational change from above to dark grey, soft, poorly CS2-foliated, slightly calcareous, thinly banded phyllite. S2 surfaces are shiny black but only slightly mark fingers. Thin patches of pyrite on S2; locally very minor patchy orange Fe-oxide staining on S2. Well developed pressure soln striping parallel S2. Only scattered qtz-calcite siltstone bands showing S1 microlithons.
						Core moderately poker chippy // 12-17 only 3 feet core // 17-23 only 5 feet core
	21 7	24 2		3	5D01	
		7 4				Soft, pale olive, calcareous, PS2-foliated, chloritic phyllite. S2 surfaces are slightly rough olive green. Contains white qtz-calcite veinlets parallel S2 up to 2cm thick. Homogeneous in appearance. Upper contact parallel S2. Lower contact folded by S2-parallel S1. Core mod. brken. Recovery good.
	24 2	59 0		4	5B70	± 2 MINOR
		18 0				Soft, calcareous, CS2-foliated, grey-green, thinly banded phyllite. S2 surfaces range from silvery green-grey to shiny, steely grey. Banding defined by thin grey qtz-calcite siltstones up to 1cm thick. Siltstones define S1 microlithons. Minor platy pyrite on S2 foliation surfaces. Minor qtz-calcite veins up to 10cm thick are crudely S2 foliaform

DDH 89G-111
2 8

CURRAGH RESOURCES INC.
Lithologic Log

Date: July 31/89 Logged By: LCP

Code	From	To	Recov.	No.	Unit	Description
1	10 14	16 20	22 24	26 28	30 34	36
		1519 0		14		TOI - 31 Mod. broken w/ good recovery // 31-37 Mod. to very poker chippy w/ minor lithology related incipient gouge - recovery good // 37 - EOI Mod. broken w/ good recovery Minor rubble & incipient gouges - especially at run ends.
	1519 0	1619 5 (21 2)		15	15B1713	
						Soft, CS2-foliated, pale to medium green, CS2-foliated, thinly bended phyllite S2 surfaces are pale silvery greens to silvery / steely grey Contains abundant medium - fine xlline grey marble bands ranging in thickness from 1cm to 20cm. Thicker bands have internal bands / laminae of phyllite defining S1 microlithons. S1 microlithons also defined by pale grey to white qtz-calcite silty bands and laminae.
						Core moderately broken w/ reasonable recovery Interval 62-67 missing about 0.5' core. Minor pyrite porphyroblasts partly enclosed by pyrrhotite.
	1619 5	1913 0 (28 3)		16	15D161	± 0 ± $ (5B76) 95:05
						Soft, homogeneous, PS2-foliated, pale olive, chlorite phyllite. S2 surfaces are slightly rough olive greens to smooth silvery pale greens. Generally non-calcareous. Contains numerous veinlets / veins of qtz with associated calcite or dolomite. Minor scattered pyrite porphyroblasts.
						Interval 80.0 - 81.5 consists of soft, medium green, non-calcareous, thinly banded phyllite. S1 microlithons defined by thin qtz grey silty bands. S2 surfaces are silvery green greens. Interval believed to be metasediment rather than metaigneous.
						Core mod. broken to mod. poker chippy Recovery OK.
	1913 0	1/1016 5 (32 5)		17	15B1710	(5D0) 80:20
						Medium to medium dark green, gently CS2- to PS2-foliated, calcareous, thinly banded phyllite. S2 surfaces are smooth, shiny, silvery greens. S1 microlithons poorly defined by thin grey qtz-calcite silty bands and laminae Unit also contains well developed S2

DDH BVG-11 (2 of 8)

CURRAGH RESOURCES INC.
Lithologic Log

Date: July 31/89 Logged By: LCC

Code	From	To	Recov.	No.	Unit	Description
1	10 14	16 20	22 24	26 28	30 34	35
						pressure solutions striping. Unit considered metagabbro because of colour and well-developed S1 microlithons texture.
						Intervals 101-102.5 and 105-106.5 consist of soft, pale olive green, homogeneous, PS2-foliated, calcareous chloritic phyllite. S2 surfaces are slightly irregular shiny green. Contains S2 parallel qtz ± calcite veins. Marginal contacts are sharp parallel S2. Core mod. brken w/ good recovery
	110165	112165 38		18	151B1216	±0 ± $
						Moderately soft, dark grey, CS2-foliated, thinly banded phyllite. S2 surfaces are streaky grey but do not readily mark the fingers. S1 microlithons well defined by pale grey qtz-silt/sand bands up to 2cm thick. Siltstone bands locally contain calcite or dolomite. Minor scattered pyrite porphyroblasts. Cut surface locally shows numerous small subhedral grey chombs which are locally calcite. Also have the rare circular, dark grey, calcareous concretions. Upper and lower contacts are sharp parallel S2
						TOI-109.5 Core slightly brken w/ good recovery // 109.5-111 very brken & rubbly w/ reasonable recovery // 111-122 mod. brken to slightly poker chippy. Recovry OK // 122-EOT slightly brken w/ good recovery
	112165	113108 39 9		19	151D101	
						Pale olive green, slightly calcareous, PS2-foliated, chloritic phyllite locally has scattered, small, tan-weathering dolomite chombs. Contains S2 foliaform and S1 foliaform qtz-calcite veins. S2 surfaces are silvery pale green. Marginal contacts sharp parallel S1- lower contact defines S2 micro folds. Contains minor SB70 which is difficult to distinguish because it is poorly laminated. Core intact w/ good recovery.

DDH 89G-11 (2 8)

CURRAGH RESOURCES INC.
Lithologic Log

Page 6

Date: July 31/89 Logged By: KCP

Code	From	To	Recov.	No.	Unit	Description
1	10 14	16 20	22 24	26 28	30 34	35
	1130 8	1137 9		110	5B210	(5DO) 50:50
		42 0				TOI - 134.5 consists of dark grey, calcareous, CS2-foliated, thinly banded phyllite. S2 surfaces are steely grey and do not extensively mark the fingers. Abundant grey qtz-calcite siltstone bands form compositional intervals up to 15 cm thick. Internally these intervals contain numerous S1 microlithons. Minor scattered pyrite porphyroblasts.
						134.5 - EOI is soft, pale olive green, homogeneous, PS2-foliated, calcareous, chloritic phyllite. Contains thin & thick S1 foliaform qtz-calcite veins. S2 surfaces are slightly rough olive green. Marginal contacts are sharp subparallel S2.
						Core mod. to slightly brken w/ good recovery.
	1137 9	1168 5		111	5B210	±3
		51 4				Soft, very dark grey, calcareous, thinly banded phyllite. S2 surfaces are dark steely grey and locally moderately mark fingers. S1 microlithons well defined by thin pale grey qtz-calcite siltstone bands and laminae. Siltstones 20-50% of unit. Locally contains thick dark grey (carbonaceous) marble bands up to 5 cm thick. Minor scattered pyrite porphyroblasts - also pyrite "spots" on S2 foliation surface.
						TOI - 163.5 mod. brken to mod. poker chippy. Recovery OK // 163.5 - 166.5 mod. poker chippy w/ short rubbly intervals - recovery OK // 166.5 - EOI mod. to slightly brken - recovery OK. 10 cm tectonic bxa @ 166.0 w/ minor gouge. S2 disrupted to steep orientation.
	1168 5	1172 2		112	5B210	(5DO) 80:20
		52 5				Similar to Unit # 10 (130.8 - 137.9). Dominantly dark grey, CS2-foliated, soft, calcareous, thinly banded phyllite. S2 surfaces are dark shiny grey. These surfaces do not mark the fingers. Scattered pyrite porphyroblasts. S1 microlithons defined by pale grey qtz-calcite siltstone bands. Contains interbands up to 25 cm thick of pale olive green, soft, homogeneous, calcareous, chloritic phyllite. S2 surfaces are shiny olive grey. PS2-foliated w/ thin qtz-calcite veins. Marginal contacts sharp parallel S2. Core mod. poker chippy w/ OK Recovery.

DDH 89G-11

CURRAGH RESOURCES INC.
Lithologic Log

Date: July 31/89 Logged By: LCP

Code	From	To	Recov.	No.	Unit	Description
1	10 14	16 20	22 24	26 28	30 34	35
	1172 2	1187 5 57 2		13	5B20	Very dark grey, moderately soft, CS2-foliated, thinly banded, calcareous phyllite. S2 surfaces are dark shiny to steely grey but do not mark fingers readily. Scattered minor pyrite porphyroblasts. Calcite occurs w/ qtz in thin siltstone bands defining S1 microlithons. Phyllitic intervals have well developed pressure-soln striping. Core slightly poker chippy w/ good recovery.
	1187 5	1195 8 59 7		14	5D0	(5B20) 70:30 Soft, PS2-foliated, calcareous, pale olive green chloritic phyllite. S2 surfaces are shiny, micaceous pale green. Diffuse calcareous bands parallel S1. White qtz-calcite veinlets parallel S1. Contains interbands of dark grey, CS2-foliated, calcareous, thinly banded phyllite. S2 surfaces steely grey but do not mark fingers. Banding defined by pale grey to white calcite-qtz siltstones generally less than 1cm thick. Marginal contacts w/ 5D sharp, parallel S1 - locally they define F2 folds. Interbands of 5B generally less than 10 cm thick. Core slightly brken to mod. brken w/ good recovery
	1195 8	2112 0 64 6		15	GOUGE	5B20 — 5D0 Rubble and mud gouge of pale olive green chloritic phyllite and dark grey, thinly banded, calcareous phyllite. Not a major fault because same unit on both sides TOI - 197.8 Mod. to very brken 5B20 S2 surfaces only slightly mark fingers Bottom 0.5' has bxa/coherent fault texture w/ qtz vein clasts in dark grey to black, fine grained matrix. Upper contact 33/000 wrt S2 - much steeper than S2. 197.8 - EOI mud gouge and fine rubble. 197.8-201 only 1 foot core // 201-205 only 1.5 foot core // 205-211 only 1 foot core // 211-EOI only 0.5 foot core. Bottom 13/000 wrt S2

DDH BGG-11 (2 8)

CURRAGH RESOURCES INC.
Lithologic Log

Date: Aug 2/89 Logged By: LCP

Code	From	To	Recov.	No.	Unit	Description
1	10 14	16 20	22 24	26 28	30 34	35
	121120	121316 5 72 1		116	15D01	(5B20) 95:05 Soft, homogeneous, PS2-foliated, calcareous, pale olive green chloritic phyllite S2 surfaces are shiny pale olive green. Contains diffuse calcite-qtz bands parallel S1. Also contains thin qtz-calcite veinlets parallel S1. Contains interbands up to 10cm thick of dark grey, thinly banded, CS2-foliated, calcareous phyllite. S2 surfaces are dark steely grey and only slightly mark fingers. Minor scattered pyrite porphyroblasts. Marginal contacts are steep parallel S1. TOI-227.0 Slightly broken w/ good recovery // except 213.5-214.5 rubbly along steep fractures. // 227-230 very poker chippy to mod. rubbly - recovery OK // 230-232 mod. broken w/ good recovery // 232-EOI rubbly & very broken w/ minor incipient gouge. Only 2 feet core recovered
	121316 5	121513 5 77 3		117	15B102	(5D0) MINOR Overwhelmingly a soft, calcareous, medium dark grey, thinly banded phyllite. S2 surfaces are medium to dark steely grey and do not mark the fingers. Contains scattered subhedral pyrite porphyroblasts. Both PS2- and CS2-foliated. PS2 foliated intervals have very well-developed pressure solution striping. Compositional banding defined by pale grey qtz-calcite bands. Contains minor thin interbands of calcareous, pale olive green, PS2-foliated, homogeneous, chloritic phyllite. S2 surfaces are shiny pale olive green. Thickest interval is 10cm. TOI-240. moderately poker chippy w/ good recovery // 240-244 rubbly w/ some gouge - only 2 feet recovered // 244-247 very poker chippy - only 2 feet recovered // 247-251 mod. to very poker chippy - only 2 feet recovered // 251-EOI mod broken w/ OK recovery Not a major fault - just poor recovery in poker chippy slightly gouged zones.

DDH BGG-11
2 8

CURRAGH RESOURCES INC.
Lithologic Log

Date: Aug 2/89 Logged By: LCR

Code	From	To	Recov.	No.	Unit	Description
1	10 14	16 20	22 24	26 28	30 34	35
	121513.5	121613.0 (80) 2		118	151D101	→ (5D$) (5B2O) 50:50: TRACE
						Soft, homogeneous, PS2-foliated, pale olive green chloritic phyllite. S2 surfaces pale olive. Contains diffuse qtz-carbonate bands parallel S1. Also contains white qtz-carbonate veinlets parallel S1. For top ½ of interval carbonate is calcite, for bottom ½ carbonate is qtz-tan weathering dolomite. Contains very minor thin interbands of medium grey phyllite. Marginal contacts of 5D sharp where visible. S2 surfaces of grey phyllite are steely grey
						TOI - 259 mod. broken w/ local rubble & incipient gouge - recovery OK // 259 - EOI mod. to slightly broken w/ 10 cm gouge @ EOI. Gouges are lithology-related & not significant.
	121613.0	121811.0 (85) 6		119	151C1417	"ZEBRA ROCK"
						Soft, CS2-foliated, noncalcareous grey-green striped phyllite. Contains thin anastomosing, discontinuous dark green chlorite laminae in medium-fine xline grey matrix. Grey matrix does not readily react to 20% HCl. S2 surfaces are patchy dark green chlorite. Locally unit contains small, subhedral carbonate (?) chunks. Also has minor more uniform medium dark green chloritic phyllite locally. Looks like carbonated metabasite. Chlorite laminae are along S1 and S2.
						TOI - 272.5 mod. broken w/ good recovery // 272.5 - 275.0 rubble w/ gouge - good recovery // 275 - EOI Mod. broken w/ good recovery. 15cm gouge @ EOI w/ minor spots of bright green "fuchsite" in this interval. Bottom contact displaced slightly along steep fracture 15/100 wrt S2.
	121811.0	121817.5 (87) 6		120	141D101	(4A4) 60:40 [4B4 (4D5) 60:40]
						off-white, very hard, noncalcareous, thinly banded qtzite. Banding defined by sphalerite + galena in S1 and S2 pressure solution stringers. S2 surfaces are qtz-tan grey w/ thin patchy silvery

DDH 89G-41
2 8

CURRAGH RESOURCES INC.
Lithologic Log

Date: Aug 2/89 Logged By: LCP

Code	From	To	Recov.	No.	Unit	Description
1	10 14	16 20	22 24	26 28	30 34	35
		121817 5		1210		cream from muscovite. Unit contains only very, very rare pyrite. Estimated grade 9% (Pb+Zn). Pressure shadow stringers parallel S2 are thicker and contain more sphalerite.
						Interval 284.0-287.0 is very hard, medium dark grey, CS2-foliated, moderately carbonaceous qtzite. Change from white to grey qtzite gradational at both top and bottom. Again sphalerite >> pyrite. Estimated grade 9% (Pb+Zn). Sphalerite in qtz-sulphide ribbons parallel S1 and pressure shadow stringers parallel S1 and S2. S2 surfaces dark grey but do not smear fingers. Grey as splashy infillings of qtz fractures. Core slightly broken w/ excellent recovery.
	121817 5	131017 3		1211	5C4171	± 5% "ZEBRA ROCK" (5D6) 90:10
		93 7				Soft, mainly PS2-foliated, noncalcareous to slightly dolomitic, green and grey striped phyllite. Dark green chlorite as thin discontinuous stringers and streaks parallel S1 and S2. S2 surfaces pale green w/ dark green spots. Matrix generally noncalcareous although locally dolomitic. Locally contains minor bright blue-green "fuchsite" spots.
						Some interbands of soft, pale olive green, noncalcareous, homogeneous chloritic phyllite. S2 surfaces are silvery olive green. More pervasively foliated and micaceous than typical 5C zebra rock.
						TOI - 294 Mod broken w/ good recovery 30cm incipient gouge - lithology related @ TOI // 294-297 very poker chippy and rubbly - recovery OK // 297 - EOI slightly to moderately broken w/ good recovery EOI fracture contact 25° wrt core axis
	131017 3	131018 5		1212	14D151	BXA + GOUGE (5C4) MINOR
		94 0				Rubble & gouge of very hard, moderately dark grey, CS2-foliated qtzite. Contains sphalerite and pyrite. Sphalerite > pyrite. Estimated grade 6% (Pb+Zn) Dominant bxa texture w/ micro fractures & small qtz clasts in carbonaceous matrix. Recovery OK. Probably not a major fault.

DDH 89G-11 (2 8)

CURRAGH RESOURCES INC.
Lithologic Log

Date: Aug 2/89 Logged By: LCP

Code	From	To	Recov.	No.	Unit	Description
1	10 14	16 20	22 24	26 28	30 34	35
	308 5	312 0		23	5C4	BXA GOUGE
		95 1				Soft, noncalcareous to slightly dolomitic, PS2-foliated, pale greenish grey phyllite. Contains abundant bright blue-green spots of "fuchsite" Top 1 foot has bxa texture w/ qtz vein clasts in fine grained fault rock matrix. Rest of interval is broken gouge Recovery reasonable. Probably continuation of same fault in unit immediately above.
	312 0	334 3		24	5C7$	
		101 9				Pale green to medium green, soft, slightly dolomitic, PS2-foliated chloritic phyllite. Contains thin dark green chlorite streaks. S2 surfaces pale green w/ dark green spots. Relict igneous texture w/ pale grey dolomite spots and streaks. Minor incipient bxa textures developed on steep fractures. Locally looks like dominant foltn is S1 w/ S2 recognizable mainly by breaking pattern of core. Core mod. broken w/ 10-20 cm incipient gouge and rubble zones. Gouges lithology related - no major faults. Recovery OK
	334 3	338 4		25	5C4$	
		103 1				Moderately hard, PS2-foliated, slightly dolomitic, pale grey phyllite. Weathers to a pale beige. Contains bright green "fuchsite" spots. S2 surfaces silvery tan w/ bright green "fuchsite" spots. Unit strongly PS2-foliated. Core mod. broken w/ good recovery
	338 4	379 8		26	4A0	(4D0)(5C4) GOUGE BXA 60:20:20
		115 8				Rubble and gouge of 3 interbanded rock types. Major type is carbonaceous, hard, noncalcareous, qtzite. S2 surfaces are shiny black and do not mark fingers. Minor pyrite in qtz-sulphide veins Pyrite content 5% or less Estimated grade low Pale grey to white, CS2-foliated, noncalcareous, qtzite. Sphalerite > pyrite. Estimated grade 6% (Pb+Zn) Sulphides in pressure soln stripes and concentrated along late

DDH 89G-11
2 8

CURRAGH RESOURCES INC.
Lithologic Log

Date: Aug 2/89 Logged By: KCP

Code	From	To	Recov.	No.	Unit	Description
1	10 14	16 20	22 24	26 28	30 34	35
						fractures. Abundant evidence of bxa textures and fault rocks. S2 surfaces where visible are silvery from muscovite. Breakage appears to be along steep cleavages.
						Interbanded pale silvery tan, noncalcareous muscovite-quartz phyllite. S2 surfaces silvery cream. Contains numerous bright blue-green "fuchsite" spots. Commonly this lithology is very gouged - partly lithology related.
						TOI - 346 rubble of 4A w/ some 4D pieces - only 4.5 feet recovered
						346 - 350 rubble and gouge of 4A and 5C - only 2.5 feet recovered
						350 - 354 rubble of 4D w/ lesser 4A and 5C - only 2 feet recovered
						354 - 358 rubble and gouge of 5C and 4A - only 1.5 feet recovered
						358 - 361 rubble of 4A - only 0.5 feet
						361 - 364 no recovery with note of mislatch
						364 - 366.5 4A and 4D rubble - only 1 foot recovered
						366.5 - 368 4D and 5C4 rubble - only 1 foot recovered
						368 - 372.5 5C4 w/ minor 4A gouge and rubble - 2 feet recovered
						372.5 - 376 4A rubble - 1.5 feet recovered
						376 - 377.5 4A gouge - 1.5 feet recovered
						377.5 - EOI 4A gouge 2 feet recovered
						Bottom contact of 4A gouge (EOI) 50 wrt core axis. Also have fractures going nearly down core axis.
						Possibly a significant fault - certainly it is gouged severely w/ poor recovery
	3719 8	3869 117 9	1	27	4D4	(5C4 $) 85:15
						Major unit is sugary white, CS2-foliated, slightly pyritic qtzite. S2 surfaces have patchy silver from minor muscovite. Abundant sphalerite and lesser pyrite forms fracture network and S1/S2 pressure soln stripes. Estimated grade 12% (Pb + Zn). Steep fractures parallel core axis locally have "open" cavities. Qtzite has powdery, flat

DDH 89G-111
2 8

CURRAGH RESOURCES INC.
Lithologic Log

Date: Aug 2/89 Logged By: LCP

Code	From	To	Recov.	No.	Unit	Description
1	10 14	16 20	22 24	26 28	30 34	35
		131816 9		1217		appearance – possibly due to "weathering" Contains interbands of pale tan, slightly dolomitic, soft, PS2-foliated muscovite-qtz phyllite. Typically contains bright blue-green "fuchsite" streaks. S2 surfaces are pale silvery cream. Especially in upper part of interval marginal contacts consist of tectonic brx and are offset along steep fractures. Continuation of fault in last unit. Core mod. broken w/ good recovery // TOT - tectonic brx contact 05 wrt core axis // 385 tectonic brx contact 45° wrt core axis
	131816 9	131910 7 119 1		1218	141D141	
						Hard, pale grey to white, noncalcareous, slightly pyritic qtzite. S2 surfaces have minor patchy silver from minor muscovite. Sphalerite > pyrite along S1 and S2 pressure soln surfaces. S2 pressure soln surfaces are thicker (up to 1cm thick) Estimated grade 12% (Pb+Zn) Pyrite content about 5% Upper contact against metabasite, lower contact gradational over short distance. Core mod. to slightly broken w/ good recovery
	131910 7	131917 5 121 2		1219	141D151	[5B129] [4D5 phyllitic] Medium dark grey, CS2-foliated, hard, noncalcareous qtzite to siliceous phyllite. Medium grey Cut surface can be scratched w/ nail although not easily. S2 surfaces are very micaceous sticky grey and do not mark fingers. Sphalerite ≥ pyrite as diffuse bands generally parallel S2. As go down interval develop thicker qtz-py diffuse bands generally parallel S2. Estimated grade 6% (Pb+Zn) Not a good 4D because slightly softer, and contains thicker micaceous partings along S2. Possibly weathered? Pyrite content about 10-15% Core mod. golden choppy to very rubbly. Recovery good.

DDH 89G-11
2 8

CURRAGH RESOURCES INC.
Lithologic Log

Date: Aug 2/89 Logged By: LCP

Code	From	To	Recov.	No.	Unit	Description
1	10 14	16 20	22 24	26 28	30 34	35
	3917 5	4011 0 122 2		310	4L1124	[4DO phyllitic] Hard, CS2-foliated, noncalcareous, slightly pyritic qtzite to siliceous phyllite. S2 surfaces silvery from abundant fine muscovite. Cut surface can typically be scratched w/ difficulty by nail. Disseminated pyrite and sphalerite in equal proportions as pressure soln stripes in S1 and S2. Estimated grade 6% (Pb+Zn). Upper and lower contacts gradational. Looks like "4D" which is not as extensively silicified as the classic Anvil ore type. Tends to show a "phyllitic" parentage. Core mod. poker chippy w/ gouges (10cm) @ 398' and 399.5'
	4011 0	4110 5 125 1		311	4L1121	CARBONACEOUS ± $ [4C5 PHYLLITIC] Medium grey, hard, CS2-foliated, slightly dolomitic micaceous qtzite to qtzose phyllite. Cut surface can be scratched with a nail — although with difficulty. S2 pressure soln stripes consist o 1-5mm thick dark grey carbonaceous phyllite partings. S2 surfaces are steely grey. Also have thin carbonaceous partings parallel S1 defining microlithons. Pyrite as irregular grains within diffuse compositional bands up to 2cm thick — locally these have a ribbon-banding qtz-sulphide aspect. Cut surface rough w/ ribbed effect as phyllitic partings weather recessively. Looks like poorly silicified and partially bleached phyllite which originally had some qtz-sulphide banding. 10% pyrite — no grade. Core moderately poker chippy as it breaks on S2 surfaces. Recovery good.
	4110 5	4114 2 126 2		312	4C101	[4CO PHYLLITIC] Pale off-white, hard, CS2-foliated, noncalcareous qtzite. Contains pressure soln stripes for S2 consisting of white, fine muscovite. S2 surfaces are silvery clear. Fine pyrite + lesser sphalerite as disseminated grains in thin compositional bands parallel S1 and S2. Both upper and lower contacts gradational. Pyrite 10%. Grade estimate 4% (Pb+Zn)

DDH 89G-11 (2 8)

CURRAGH RESOURCES INC.
Lithologic Log

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Date: Aug 2/89 Logged By: LCP

Code	From	To	Recov.	No.	Unit	Description
1	10 14	16 20	22 24	26 28	30 34	35
						Core moderately to slightly poker chippy. Recovery OK
	14114 2	14214 5 129 4		313	4L1124	$ CARBONACEOUS [5B1 $ 9] [4C $5 PHYLLITIC] Hard, CS2-foliated, medium grey, slightly dolomitic siliceous phyllite to micaceous qtzite. S2 surfaces are shiny steely grey to light silvery grey. Pyrite with minor sphalerite as disseminated grains in more qtzose bands, and as thin pressure solution stripes parallel S1 and S2. Looks like phyllite w/ siltstone bands which has been silicified and locally bleached of carbon. Micaceous pressure soln stripes are generally less than 2mm thick. Upper and lower contacts are gradational over short distance. Grade 1-3% (Pb+Zn). Pyrite content 5%. Core slightly broken w/ good recovery
	14214 5	14218 5 130 6		314	5B2619	Medium dark grey, CS2-foliated, noncalcareous, thinly banded phyllite. S2 surfaces are dark steely grey to steely grey and slightly mark the fingers. Unit contains medium pale grey qtz siltstone compositional bands up to 2 cm thick. Pyrite occurs as irregular grains in light grey qtz-pyrite bands up to 1cm across. Micaceous intervals are strongly S2-pressure solution striped. Minor pyrite also in thin xcutting irregular fractures. Minor cpy present in late fractures. Minor fine reddish brown sphalerite in pressure soln stripes. Unit has appearance of "incompletely silicified" 4A
	14218 5	14514 5 138 5		315	5A6191	Dark grey to black, poorly CS2-foliated, moderately hard, thinly banded, noncalcareous phyllite. S2 surfaces are dark steely grey but do not mark fingers. Contains thin medium grey qtz siltstone bands. Also contains S1 foliaform (i.e. folded by S2 folds) qtz-pyrite ± sphalerite veins. Commonly very pyritic qtz veins have "holes" from weathered out carbonate (?). Veins folded by P2. They are up to 1cm thick

DDH 89G-11 (2–8)

CURRAGH RESOURCES INC.
Lithologic Log

Date: Aug 3/89 Logged By: LCP

Code	From	To	Recov.	No.	Unit	Description
1	10–14	16–20	22–24	26–28	30–34	35
		454 5		35		Rock is transitional between 5A and 4A. Softness and color are characteristic of 5A. Qtz-pyrite ribbon banding characteristic of 4A. Ribbon banding very definitely veins and xcuts So bedding. Also has minor sphalerite + pyrite on S2 parallel pressure soln stripes. Pyrite content 5%. Estimated grade 2% (Pb+Zn). Upper and lower contacts gradational - darker colour and less siliceous than last unit and next unit doesn't have qtz-pyrite veins. TOI - 432.5 mod. poker chippy w/ good recovery // 432.5-435.5 very poker chippy w/ incipient gouge recovery about 90% // 435.5 - EOI slightly brken w/ good recovery
	454 5	464 8 141 7		36	5B26	Dark grey, noncalcareous, PS2-foliated, soft phyllite. S2 surfaces are dark steely grey and do not mark the fingers. Only locally have a poorly preserved CS2-fabric - generally it is PS2. Minor thin qtz-pyrite veins are folded into D2 folds. Major difference from above unit # 35 (- 454.5) is general lack of qtz-pyrite veins. TOI - 457.5 moderately poker chippy w/ good recovery // 457.5 - 459.0 very poker chippy w/ incipient gouge developed // 459 - EOI mod. brken w/ locally very poker chippy 15 cm intervals - recovery OK.
	464 8	469 5 143 1		37	4A01	(5A619) 75:25 Entire interval has 4A texture w/ qtz-pyrite ± sphalerite vein ribbon-banding separated by fine-grained dark grey to black micaceous/cherty intervals. All noncalcareous. S2 surfaces are very dark grey and only moderately mark fingers. Pyrite content 5-10% Sphalerite < pyrite Estimated grade 3-4% (Pb+Zn). In uppermost 1 foot of interval between qtz-py veins have siliceous phyllite or qtz-rose siltstone. In rest of unit lithology between qtz-py veins is dark grey

DDH BGG-11

CURRAGH RESOURCES INC.

Lithologic Log

Date: Aug 3/89 Logged By: LCP

Code	From	To	Recov.	No.	Unit	Description
1	10 14	16 20	22 24	26 28	30 34	35
						qtzite. This lower part is good 4A in texture and hardness. Upper 1 foot is 4A-like in texture but not hardness. Unit slightly broken w/ good recovery
	14619.5	14711.8		318	101909	
		1438				Pegmatitic white vein qtz. Very minor splashy galena and dark red sphalerite in hairline fractures. Core very rubbly and broken. Recovery good
	14711.8	15110.3		319	141015	(4A4) 70:30
		1555				Very hard, noncalcareous, medium dark grey, CS2-foliated, pyritic qtzite. S2 surfaces range from silvery grey to dark black. Black S2 folia moderately mark the fingers. Gradational variations between 4D (medium grey) and 4A (dark grey). Sphalerite occurs w/ pyrite in qtz-sulphide ribbon banding folded during D2. Sphalerite also occurs as grainy solid shapes in S2. Sphalerite ~ 2 times pyrite. Pyrite content 5-10%. Estimated grade 9-12% (Pb+Zn). General trend to increasing grade as go down DDH. Locally some short intervals (like at 496 feet) are not as extensively silicified — can be scratched with moderate difficulty by a nail. Near EOI estimated grade 15% (Pb+Zn). as pyrite occurs as micro breccia clast within finer red sphalerite matrix.
						TOI - 475.5 slightly broken w/ good recovery // 475.5-477 very poken chippy w/ good recovery // 477-484 mod. broken w/ good recovery // 484-495 very broken and poken chippy 488-492 only 2.5 feet core, 492-495 only 1.5 feet core, otherwise recovery OK // 495-500 mod. poken chippy w/ OK recovery // 500-507 very broken & rubbly w/ OK recovery // 507-EOI mod. broken w/ OK recovery. Generally broken on steep fractures running right down the core axis.

DDH 89-G-11 (2 / 8)

CURRAGH RESOURCES INC.
Lithologic Log

Date: Aug 3/89 Logged By: LCP

Code	From	To	Recov.	No.	Unit	Description
1	10 14	16 20	22 24	26 28	30 34	35
	151103	151157 (157) 2		1410	141A141	(405 | 5D46) 75:25: TRACE
						Dominantly a very hard, dark grey, noncalcareous, ribbon-banded qtzite. S2 surfaces are black to dark grey and only moderately mark fingers. Qtz-sphalerite-pyrite ribbon banding. Pyrite ≥ sphalerite. Pyrite content 5-10% Estimated grade 7% (Pb+Zn). Banding parallel S1 and S2. Locally pyrite grains in reddish sphalerite matrix forms a microbuckshot texture.
						Contains a few 1-3cm thick bands of soft, homogeneous, pale tan green, noncalcareous chlorite-muscovite phyllite. S2 surfaces are silvery beige. Represents very thin bands of altered 5D.
						For intervals the qtzite is less carbonaceous. S2 surfaces are silvery grey and cut surface is medium grey. Similar grades and pyrite content as for the 4A.
						TOI-511.5 — very broken & rubbly w/ OK recovery // 511.5-514.0 mod to slightly broken w/ good recovery // 514-515 Very broken w/ incipient gouge — recovery OK — fractures within gouged area and @ top of gouged area 15/330 w.r.t. S2 // 515-EOI mod broken w/ good recovery
	151157	152160 (160) 3		1411	5B12619	
						Moderately soft, PS2- to poorly CS2-foliated, dark grey, noncalcareous phyllite. S2 surfaces are medium steely grey and only slightly mark fingers. Contains diffuse qtz-carbonate (?)-sphalerite siltstone bands. Carbonate doesn't react to 20% HCl but assumes a frosted appearance after acid bath. Overall this gives unit a speckled appearance. No pyrite present. Estimated grade about 1% (Pb+Zn) - only minor fine, reddish sphalerite present
						TOI-519 mod to very broken — recovery OK // 519-521 very poor chippy w/ incipient gouge — recovery OK // 521-EOI slightly broken w/ good recovery
						EOH

DDH 89-6-11 (2–8)

CURRAGH RESOURCES INC.
Structural Log

Page 1 of 1

Date: July 11/89 Logged By: A. Reznik

Code	From (10–14)	To (meters) (16–20)	Feature (22–24)	Sym (26)	S_0 Dip (28–32)	S_0 Direct. (28–32)	S_1 Dip (34–38)	S_1 Direct. (34–38)	S_2 Dip (40–44)	S_2 Direct (40–44)	Description
		16 6	CS3				41	335	76		micaceous [illegible] / crenulation cluges
		14 2	CS2	S			39	14	60		" " "
		16 9	CS2	M			00	015	71		" " "
		24 7	PS2	-			T	T	64		S2 defined by chlorite bands comp banding present + Fold Hinge
		30 0	PS2	-			T	T	63		micaceous foltns & comp banding present.
		35 7	CS2	Z			57	000	49		" "
		40 2	CS2	M			17	09	73		" "
		48 5	CS2	M			00	25	77		comp banding present.
		51 7	CS2	Z			41	200	59		comp banding + micaceous fltns.
		57 3	CS2	Z			24	253	66		comp banding present
		66 4	CS2	Z			31	180	47		micaceous fltns & comp banding.
		72 2	CS2	M			00	025	77		compositional " banding "
		79 2	PS2	-			T	T	58		" " "
		88 7	PS2	-			T	T	44		" " " define S_2
		89 6	PS2	-			T	T	50		" " " "
		97 6	CS2				26	000	60		" " " define S_1
		101 7	PS2	-			T	T	61		" " " define S_2
		119 5	CS3	-	35	000	T	T	63		" " & Py & " " "
		126 6	CS2	Z			34	180	60		S_2 defined by Sph & Py banding.
		129 2	CS2	Z			22	180	77		" " " " " "
		134 2	CS3				29	182	58		PS2 foliation " " CS3 spaced crenulation cluge
		142 2	PS2	-			T	T	58		comp banding & micaceous fltns present. S_2 defined by Py banding
		145 8	CS2	-			90	000	44		comp banding present. S_2 defined by Py & Sph Banding
		151 0	PS2	-			T	T	68		comp banding & micaceous fltns. S_2 defined by Py & sph banding.
		152 0	T	-			T	T	T		Fold Nose present.
		159 1	CS3				32	110	70		comp banding & micaceous fltns (S2 & PS2)
						EOH					
		18 5	CS2				00	055	60		compositional banding + crenulation cluge.
		18 5	CS3		35	000			60		fine crenulation cluge.
		14 5	CS3		30	000			64		spaced crenulation cluge w/ micas
		72 2	CS3		30	19			77		crenulation cluges
		87 3	CS2	Z			15	180	60		compositional banding - pressure soln striping
		93 0	CS2				15	000	43		micaceous foliations in 5C7 - chlorite

EOH

OK

DDH 89G-11 (2–8) CURRAGH RESOURCES INC.

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Logged by LCP

ASSAY LOG (SAMPLER'S COPY)

Date _____ Sampled by _____

CODE	FROM	TO	SAMPLE	INTR.	REC (m)	UNIT	DESCRIPTION
1	10 0 14	16 85. 20	22 — 26	28 — 30	32 34	36 WAST 40	42
	85.6 2810	86.6 2840	14794	30	0.9 30	4D01	
	2840	87.6 2875	14795	35	1.1 35	4A4	
	27.6	93.7	—	—	—	WASTE	
	93.7 3073	94.0 3085	14796	12	0.4 12	4D5	
	940	103.1	—	—	—	WASTE	
	103.1 3384	104.7 3435	14797	51	1.0 34	4AD	
	3435	106.1 3480	14798	45	1.0 33	4AD	
	3480	107.9 3540	14799	60	1.1 36	4AD	
	3540	109.1 3580	14800	35	0.5 18	4AD	
	3580	111.7 3665	14801	85	0.5 18	4AD	Very poor recovery
	3665	113.5 3725	14802	60	1.0 34	4AD	
	3725	114.6 3760	14803	35	0.5 16	4A	RUBBLE
	3760	115.8 3798	14804	38	1.2 38	4A	GOUGE
	3798	116.7 3830	14805	32	1.1 37	4D4	
	3830	117.9 3869	14806	39	1.2 39	4D4	
	3869	119.1 3907	14807	38	1.2 38	4D4	
	3907	120.0 3938	14808	31	0.9 31	4D5	
	3938	121.2 3975	14809	37	1.1 37	4D5	
	3975	122.2 4010	14810	35	1.1 35	4L2114	
	4010	123.6 4055	14811	45	1.4 45	4L112	
	4055	125.1 4105	14812	50	1.4 47	4L112	
	4105	126.2 4142	14813	37	1.1 37	4C01	
	4142	128.1 4203	14814	61	1.3 43	4L1124	
	4203	129.5 4245	14815	42	1.3 42	4L1124	
	4245	130.6 4285	14816	40	1.2 40	5B2169	
	4285	132.0 4330	14817	45	1.4 45	5A69	
	4330	133.2 4370	14818	40	1.2 40	5A69	
	133.2	141.7	—	—	—	WASTE	
	141.7 4648	143.1 4695	14819	47	1.4 47	4A01	
	4695	143.8 4718	14820	23	0.7 23	10Q09	
	4718	145.2 4765	14821	47	1.4 47	4AD	
	4765	146.6 4810	14822	45	1.4 45	4DA	
	4810	147.8 4850	14823	40	1.2 40	4DA	
	4850	149.2 4895	14824	45	1.4 45	4AD	
	4895	150.9 4950	14825	55	0.9 30	4AD	
	4950	153.0 5020	14826	70	2.0 66	4AD	

DDH 89G-11 (2–8)

CURRAGH RESOURCES INC.

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Logged by LCP

ASSAY LOG (SAMPLER'S COPY)

Date _____ Sampled by _____

CODE (1)	FROM (10–14)	TO (16–20)	SAMPLE (22–26)	INTR. (28–30)	REC (m) (32–34)	UNIT (36–40)	DESCRIPTION (42)
	5020	5062 (154.2)	14827	40	1.2 40	4AD	
	5060	5103 (155.5)	14828	43	1.3 43	4AD	
	5103	5157 (157.2)	14829	54	1.7 47	4AD	
	5157	5210 (158.8)	14830	53	1.5 50	5BZ69	
	158.8	1603	—	—	—	WASTE	

PROJECT _____ DRILLHOLE NO. DDH 89G11 COORDINATES: N _____ DATE July 11 1989

LOCATION _____ HOLE SIZE _____ E _____ PAGE 1 of 4

LOGGER A. Reznik INCLINATION _____ ELEVATION _____

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VANCOUVER CALGARY

GEOTECHNICAL CORE LOG

DEPTH (TO)	LENGTH OF RUN	CORE RECOVERY		RQD		HARDNESS	DEGREE OF BREAKAGE		DEGREE OF WEATHERING	ROCK TYPE	BEDDING DIP		BEDDING JOINTS		CROSS JOINTS		COMMENTS
		LENGTH	%	LENGTH	%		CATEGORY	NO.			DEPTH	ANGLE	NO.	FREQ.	NO.	FREQ.	
5.2	5.2	.91		0			6		D							0	
7.0	1.8	1.61		0			7		E							2	
10.1	3.1	2.94		.41			8		E							3	
11.3	1.2	1.2		0			6		E							2	
12.2	.9	.9		0			6		E							3	
14.0	1.8	1.25		0			7		F							0	
15.2	1.2	1.10		.12			7		E							1	
16.5	1.3	1.12		0			6		F							0	
18.9	2.4	1.06		.32			8		F							2	
22.7	3.8	3.78		.41			8		E							2	
23.8	1.1	1.1		.20			7		E							2	
25.7	1.9	.96		0			6		E							1	
27.4	2.6	1.64		0			7		F							4	
28.7	1.3	1.27		0			6		F							3	
29.6	.9	.9		0			6		F							0	
32.0	2.4	2.4		.52			8		F							1	
33.8	1.8	1.8		.58			8		F							1	
35.4	1.6	1.51		.10			7		F							0	
38.1	2.7	2.7		.86			8		E							3	
41.1	3	3		1.32			11		E							1	
43.1	2.0	2.0		.85			11		F							0	
45.4	2.3	2.22		.81			9		F							1	
48.5	3.1	3.0		.20			8		F							1	
50.4	1.9	1.87		.20			7		F							0	
53.5	3.1	3.1		.73			9		F							0	
56.2	2.7	2.55		.40			8		F							0	
59.1	2.9	2.65		.70			8		F							0	
61.2	2.1	1.62		.21			6		E							3	

Fig. 1. Typical rock mechanics core log.

PROJECT _____ DRILLHOLE NO. DDH 89 6-11 COORDINATES: N _____ DATE July 13 1989

LOCATION _____ HOLE SIZE _____ E _____ PAGE 2 of 4

LOGGER A. Rezvik INCLINATION _____ ELEVATION _____

PITEAU & ASSOCIATES
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GEOTECHNICAL CORE LOG

DEPTH (TO)	LENGTH OF RUN	CORE RECOVERY		RQD		HARDNESS	DEGREE OF BREAKAGE		DEGREE OF WEATHERING	ROCK TYPE	BEDDING DIP		BEDDING JOINTS		CROSS JOINTS		COMMENTS
		LENGTH	%	LENGTH	%		CATEGORY	NO.			DEPTH	ANGLE	NO.	FREQ.	NO.	FREQ.	
62.5	1.3	.52		0			2		D							0	
64.3	1.8	.37		0			3		D							0	
65.2	.9	.69		0			5		D							0	
66.1	.9	.77		0			6		E							1	
68.0	1.9	1.9		.19			7		E							0	
69.5	1.5	1.32		.12			7		F							1	
70.7	1.2	1.2		0			6		F							1	
72.1	1.4	.66		0			6		E							2	
73.2	1.1	1.1		0			6		D							1	
74.4	1.2	.64		0			5		D							0	
75.3	.9	.66		0			4		D							1	
76.5	1.2	.55		0			5		D							0	
77.7	1.2	1.2		.10			6		E							0	
78.9	1.2	1.2		.12			6		E							1	
81.4	2.5	1.75		.30			9		E							0	
82.9	1.5	1.5		.10			8		E							2	
84.4	1.5	1.5		.20			8		E							1	
87.4	3.0	2.97		.60			10		F							2	
88.7	1.3	1.23		.21			8		F							1	
90.5	1.8	1.8		.61			6		E							0	
92.7	2.2	2.2		.43			8		E							1	
94.2	1.5	1.5		.43			3		D							0	
96.0	2.2	2.1		.10			3		D							0	
99.1	3.1	3.1		1.01			11		E							0	
102.3	3.2	3.00		.43			7		D							0	
103.3	1.0	1.00		0			3		D							0	
105.5	2.2	1.0		0			9		E							3	
106.7	1.2	.87		0			2		D							0	
107.9	1.2	.67		0			1		D							0	

Fig. 1. Typical rock mechanics core log

PROJECT _____ DRILLHOLE NO. DDH 89 COORDINATES: N _____ DATE July 13 1989

LOCATION _____ HOLE SIZE 6-11 E _____ PAGE 3 of 4

LOGGER A. Rasik INCLINATION _____ ELEVATION _____

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GEOTECHNICAL CORE LOG

DEPTH (TO)	LENGTH OF RUN	CORE RECOVERY		RQD		HARDNESS	DEGREE OF BREAKAGE		DEGREE OF WEATHERING	ROCK TYPE	BEDDING DIP		BEDDING JOINTS		CROSS JOINTS		COMMENTS
		LENGTH	%	LENGTH	%		CATEGORY	NO.			DEPTH	ANGLE	NO.	FREQ.	NO.	FREQ.	
109.1	1.2	.49		0			1		D							0	
110	.9	.15		0			5		D							0	
110.9	Missing																
111.7	.8	.32		0			5		D							0	
113.5	1.8	.94		0			1		D							0	
114.6	1.1	.48		0			1		D							0	
115.1	.5	.5		0			1		D							0	
117.7	2.0	2.0		0			3		D							0	
118.3	1.2	.74		0			6		E							1	
119.5	1.2	1.2		.10			7		E							1	
121.3	1.8	1.8		.10			6		D							2	
122.1	.8	.66		0			6		D							1	
123.4	1.3	1.3		0			6		D							2	
124.9	1.5	1.4		0			6		D							2	
126.2	1.3	1.3		0			6		E							1	
128.6	2.4	1.95		.32			8		F							1	
130.8	2.2	2.2		1.02			8		F							0	
132.0	1.2	1.2		0			7		E							0	
132.3	.3	.24		0			6		D							0	
132.6	.3	.3		0			6		D							0	
134	1.4	1.4		.36			7		E							0	
135.3	1.3	1.3		.39			7		E							1	
137.0	1.7	1.44		.22			8		F							1	
138.5	1.5	1.5		.76			8		F							0	
140	1.5	1.5		0			7		F							2	
141.4	1.4	1.4		.30			7		F							2	
143.1	1.7	1.54		.78			8		F							0	
144.0	.9	.9		0			6		F							1	

Fig. 1. Typical rock mechanics core log.

PROJECT _____ DRILLHOLE NO. DDH 89 6-11 COORDINATES: N _____ DATE July 13 1989

LOCATION _____ HOLE SIZE _____ E _____ PAGE 4 of 4

LOGGER A. Rennie INCLINATION _____ ELEVATION _____

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VANCOUVER CALGARY

GEOTECHNICAL CORE LOG

DEPTH (TO)	LENGTH OF RUN	CORE RECOVERY		RQD		HARDNESS	DEGREE OF BREAKAGE		DEGREE OF WEATHERING	ROCK TYPE	BEDDING DIP		BEDDING JOINTS		CROSS JOINTS		COMMENTS
		LENGTH	%	LENGTH	%		CATEGORY	NO.			DEPTH	ANGLE	NO.	FREQ.	NO.	FREQ.	
145	1.0	1.0		.25			6		F							0	
146.3	1.3	1.05		.10			6		F							2	
147.8	1.5	1.08		.26			7		E							0	
148.7	.9	.9		0			6		D							1	
150	1.3	.9		0			6		D							0	
151	1.0	.43		0			6		D							0	
152.3	1.3	1.3		0			6		D							0	
153	.7	.7		0			6		D							0	
154.2	1.2	1.2		.10			6		D							1	
155.8	1.6	1.6		.10			6		D							5	
157.5	1.7	1.54		.56			9		D							1	
158.9	1.4	1.30		0			7		D							2	
160.3	1.4	1.4		.84			10		E							1	
							—	EOH	—								
102.3																	
103.3	1.0	1.0		0			6		E							3	

Fig. 1. Typical rock mechanics core log.

89-G-12

CURRAGH RESOURCES INC.

Page 1 of ____

DIAMOND DRILL CORE LOG

Date: _____

Hole Number: 896-12

Reference Fabric Orientation Diagram:

Project: 1989 GRUM FILL-IN

Location: _____

Claim: _____

UTM ~~Terr~~.Plane Co-ords.: 6905321.102 N 6,755.90 N

592111.336 E 2,849.38 E

Grid Co-ords: 86W /8N

Elevation: 1312.432

All symmetry determinations looking

Total Depth: 515 feet _____ with _____ dipping

Inclination: -65° TO NE _____ with dip azimuth _____.

Purpose: Test NW pit for ore

Reason hole Terminated: _____

Logged by: L.C. Pigage

Date(s) Logged: _____

Drilling Contractor: ARCTIC

Hole Cemented: _____ Steel down Hole: _____

Assay Lab: _____

Certificate No's: _____

CORE Size	From	To	Collar Cased and Capped: ____
NW	0	11 feet	
NQ	11	515 feet	

Started: July 12/89 Completed: July 14/89

CURRAGH RESOURCES INC.

Diamond Drill Core Log

DDH 89G-12 (2–8)

Date: _____ Logged By: _____

Code	Drillhole	Elevation	Northing	Easting	Units (feet/metres)	R.F.E.	
	2 8	10 16	17 24	25 32	34 39	41 42	
T	89G-12						

Code	Drillhole	Depth FEET	~~Zenith~~ Angle	True Azimuth	Comments
	2 8	10 14	22 26	28 32	34 56
R	89G-12	0 0	-65.0	..	ATCOLLAR
R	89G-12	1201 2 0	-67.0	055.0	SPERRY SUN SS
R	89G-12	1351 2 0	-68.0	057.0	SPERRY SUN SS
R	89G-12	1501 2 0	-69.7	064.0	SPERRY SUN SS
R		..	..	..	
R		..	..	..	
R		..	..	..	
R		..	..	..	
R		..	..	..	
R		..	..	..	
R		..	..	..	
R		..	..	..	
R		..	..	..	
R		..	..	..	
R		..	..	..	
R		..	..	..	
R		..	..	..	
R		..	..	..	
R		..	..	..	
R		..	..	..	
R		..	..	..	
R		..	..	..	
R		..	..	..	
R		..	..	..	
R		..	..	..	

Code	Drillhole	Comments, Errant Remarks, Snivellings and / or Lewd Suggestions
	2 8	10 56

DDH 89G-12 (2 8)

CURRAGH RESOURCES INC.

Lithologic Log

Date: July 20/89 Logged By: LCP

Code	From	To	Recov.	No.	Unit	Description
	10 14	16 20	22 24	26 28	30 34	35
L	10 0			1	#1	TRICONED – NO RECOVERY
L		117 5		2	5B1012	SLIGHTLY WEATHERED
		53				Moderately soft, CS2-foliated, thinly banded, medium grey, calcareous phyllite. Banding defined by pale grey to off-white qtz-calcite siltstone bands up to 1 cm thick. Banding parallel S1 of pressure solution style striping parallel S2. Minor qtz-calcite infilling scatting fractures. S2 surfaces are shiny, steely grey. Fractures commonly have thin orange-brown weathering surface coating. Thin coating is reason for slightly weathered statement. Core rubbly and very poker choppy uppermost 1 foot has ground core. Recovery
	117 5	131 29		3	5B1012	
		100				Moderately soft, CS2-foliated, thinly banded, medium-dark grey, calcareous phyllite. S2 surfaces are shiny, steely grey. S2 marked by pressure solution striping. S1 surfaces defined by microlithons defined by pale grey qtz-calcite siltstone bands which are locally up to 5cm thick. S2 surfaces are crinkled by later crenulations style which is also visible as stripes on cut surface. No weathering stain on any surface. Scattered pyrite porphyroblasts. Core very poker choppy over entire interval. Recovery OK except for 31.0-32.5 has only 0.3 feet core. Intvl 25.0-25.5 incipient gouge-not significant
	131 29	146 3		4	5D101	(5B07) 70:30
		14 1				Moderately soft, PS2-foliated, calcareous, pale olive green, homogeneous, chloritic phyllite. S2 surfaces are olive green. Cut surface has silky feel and texture

DDH 89G-12 (2 8)

CURRAGH RESOURCES INC.

Lithologic Log

Date: July 21/89 Logged By: LCP

Code	From	To	Recov.	No.	Unit	Description
1	10 14	16 20	22 24	26 28	30 34	35
	1312.9	1416.3		14		Calcite disseminated in matrix and forming thin white veins (gtz-calcite)
		1417				generally parallel S2. These veins also define S2 folds.
						Interbanded w soft, CS2-foliated, calcareous, dark green-grey phyllite.
						S2 surfaces are mottled shiny grey and silvery green. Cut surface is medium-dark green when wet. Calcite-gtz siltstone bands form S1 microlithons.
						Marginal contacts appear to be parallel S2 - in many instances they are obscured by rubble. Thickest interband is 2.5'
						TOI - 43.0 Slightly to moderately broken. Recovery good. Incipient
						gouge lump @ 40.5.
						43.0 - 44.0 Rubbly and very poker chuppy. Recovery good
	1416.3	1431.5		15	15B1710	±2 MNOR (5DO) MINOR
		440.1				Moderately soft, CS2-foliated, medium dark green to greenish grey, thinly-banded, calcareous phyllite. Banding defined by thin grey gtz-calcite siltstone bands and laminae up to 2cm thick. Cut surface is medium green & grey striped when wet.
						S2 surfaces silvery greenish grey to shiny grey. Near end of interval phyllite becomes slightly darker coloured. Scattered pyrite and pyrrhotite porphyroblasts.
						Thin interbands of homogeneous, soft, pale olive green, slightly calcareous, chloritic phyllite. S2 surfaces are silvery green to pale green. Units commonly 1-10cm thick although locally 30 cm thick. Located @ 74.8-75.5, 100.5, 106.0.
						TOI - 54.0 Moderately broken to slightly poker chuppy. Recovery OK
						54.0 - 57.0 Only 2' core up hole of Mislatch @ 57'. Core mod. broken.
						57.0 - 90.0 Moderately poker chuppy. Recovery OK
						90.0 - 100.5 Moderately broken. Recovery OK
						100.5 - EOI Moderately poker chuppy. Recovery OK

DDH 89G-112
2 8

CURRAGH RESOURCES INC.
Lithologic Log

Date: July 21/89 Logged By: LCP

Code	From	To	Recov.	No.	Unit	Description
1	10 14	16 20	22 24	26 28	30 34	35
	113115	115198		16	5D101	± $ (5B70) 60:40
		14987				Soft, pale olive green, moderately calcareous, PS2-foliated, chlorite phyllite. S2 surfaces are green to silvery green. Homogeneous. Contains thin qtz-calcite bands parallel S2 foliation. Locally veins are coarsely grained and contain qtz-calcite-dolomite. Locally scattered small (1-2 mm) pale tan dolomite rhombs in matrix.
						Contains interbeds of soft, medium green to greyish green, calcareous, CS2-foliated, thinly banded phyllite. Banding defined by pale grey qtz-calcite siltstone layers up to 3cm thick. Texturally the siltstone bands display a well-developed S1 microlithons texture. S2 surfaces are silvery green to silvery grey. Lithology contains scattered, irregular, pyritohedral porphyroblasts. Lithology more common near bottom of interval. Locally difficult to decide whether rock is 5D or 5B7.
						TOI - 138.0 Mod. broken w/ local incipient gouge @ 134, 137. Recovery OK
						138 - 144.5 Moderately poker chipped. Recovery OK
						144.5 - 148.5 Mod. broken - recovery OK
						148.5 - 150.5 Mod. to very poker chipped. - Recovery OK
						150.5 - EOI Slightly broken. Recovery OK.
						Tends to be more poker chipped in 5B7 intervals
	115198	121070		17	5D101	(5B20) 60:40
		1631				Moderately soft, PS2-foliated, moderately calcareous, olive green, phyllite. Diffusely banded w/ grey qtz-calcite bands and veinlets. Marginal contacts sharp, parallel S1 and commonly therefore parallel S2.
						Interbanded w/ dark grey, soft, calcareous, thinly banded CS2-foliated phyllite. S2 surfaces are dark steely grey and shiny, mark the fingers. CS2-fabric defined

DDH 89G-12

CURRAGH RESOURCES INC.
Lithologic Log

Date: July 21/89 Logged By: LCP

Code	From	To	Recov.	No.	Unit	Description
1	10 14	16 20	22 24	26 28	30 34	35
						by abundant thin pale grey qtz-calcite siltstone bands. Contains scattered subhedral to irregular pyrite porphyroblasts. Interbanded w/ chlorite phyllite on scale from 2cm - 2m. Amt of 5D decreases as go down DDH
						Similar to last unit only interbanded calcareous phyllite is definitely very dark grey to almost 5A black. Does contain crudely S2 foliaform, white bull qtz veins up to 30cm thick.
						TOI-167.5 Mod. brken w/ good recovery
						167.5-EOI Mod. poker chippy Especially in 5B2 intervals. Recovery OK.
	2070	2238		8	5A01	[5B20]
		682				Moderately soft, CS2-foliated, very dark grey, calcareous, thinly banded phyllite. Banding defined by medium grey qtz-calcite siltstone bands up to 5cm thick. Siltstone bands are commonly internally thinly laminated and display S1 microlithon textures. S2 surfaces are dark shiny grey and only slightly marks the fingers. Scattered irregular pyrite porphyroblasts.
						TOI-212.0 Mod. brken w/ good recovery
						212.0-216.5 Poker chippy & mod. rubbly w/ minor incipient gouge @ 214.5. Recovery OK
						216.5-EOI Mod. brken Recovery OK
	2238	2311		9	5D01	(5B20 ± 7 Minor) 55:45
		704				Soft, pale olive green, moderately calcareous, PS2-foliated, chlorite phyllite. Abundant very thin, white, calcite-qtz veins parallel S2. Otherwise unit homogeneous. Minor pyrite porphyroblasts. Marginal contacts sharp. Thickness ranges from 0.6m - 3cm. Some foliaform (S2) pegmatite white qtz veins

DDH BGG-12 (2 8)

CURRAGH RESOURCES INC.
Lithologic Log

Date: July 21/82 Logged By: LCP

Code	From	To	Recov.	No.	Unit	Description
1	10 14	16 20	22 24	26 28	30 34	35
	1213 8	1311 1		19		Interbanded w/ SD is soft, CS2-foliated, dark grey, calcareous, thinly
		704				banded phyllite. S2 surfaces shiny grey to stocky grey & do not readily mark fingers.
						S1 and S2 partly defined by thinly laminated pale grey qtz-calcite siltstone
						bands up to 3cm thick. Minor scattered, very irregular, pyrite porphyroblasts.
						Core mod. broken w/ excellent recovery
	1311 1	1513 0		110	5B1210	± 7 MINOR
		771				Soft, CS2-foliated, dark grey, calcareous phyllite. S2 surfaces are dark shiny
						grey to grey-black but do not strongly mark fingers. Abundant thin qtz-calcite
						siltstone bands are internally thinly laminated. Laminae define S1. S2 defined by
						pressure soln carbonaceous stripes bordering the bands. Minor very
						irregular scattered pyrite porphyroblasts. At 242' phyllite is slightly
						lighter in colour w/ definite green tinge on cut surface.
						Core mod broken w/ 10cm rubble & incipient gouge & FOT Recovery OK
	1513 0	1614 5		111	5B1610	±$ ±# (SD$) MINOR ±BXA
		806				Moderately soft, CS2-foliated, pale grey, thinly banded phyllite. Cut surface
						has faint greenish tinge when wet. S2 surfaces are silvery grey. Banding
						defined by thin grey qtz ± dolomite ± calcite siltstone bands and laminae. In
						dolomitic intervals the siltstone has a pale tan weathering colour. Upper
						contact sharp against 5B20 rubble. Lower contact gradational w/ segregations
						of calcite in normal amounts. Interval more extensively fractured and has
						thin zone of cohesive fault gouge similar to Tic Tuff 258-259.5
						Minor thin interbands of soft, slightly dolomitic, PS2-foliated,
						homogeneous, olive-green phyllite locally altered to a pale tan.

DDH 89-16-12

CURRAGH RESOURCES INC.
Lithologic Log

Date: July 21/89 Logged By: LCP

Code	From	To	Recov.	No.	Unit	Description
	215.30	216.45		111		TOI - 257.0 Slightly broken w/ good recovery Steep fracture w/ orientation 48/220 wrt SZ.
		218.06				257.0 - 259.5 Very broken & rubbly lower part consists of cohesive fault gouge /bxa similar to TIE fault w/ qtz vein clasts. Recovery OK Intense contacts w/in bxa have angles 45-60° wrt core axis
						259.5 - EOI Moderately broken w/ minor incipient gouge along steep fractures. Fracture orientations 57/180 wrt SZ.
	216.45	218.53		112	5B1210	7 MINOR (5DD) MINOR
		218.70				Dominantly a soft, CS2-foliated, calcareous, medium dark grey, thinly banded phyllite. SZ surfaces are shiny grey Thin qtz-calcite siltstone bands and laminae define the compositional banding along both S1 and S2.
						Cut surface has minor green tinge - locally this appears to be concentrated in the siltstone bands.
						Uppermost 1.5' consists of calcareous, pale olive, PS2-foliated chlorite phyllite. Diffuse qtz-calcite bands and veinlets are folded by S2.
						Core moderately broken w/ reasonable recovery
	218.53	219.10		113	15D101	
		218.84				Soft, calcareous, PS2-foliated, homogeneous, pale olive chloritic phyllite. SZ surfaces are typically silvery green. locally contains thin white "beaded" qtz-calcite veinlets parallel SZ. Upper contact sharp against phyllite. Lower contact gradational over short interval. Represents foliated margin to SC multibasaltic.
						Core slightly broken to intact w/ good recovery

DDH 89-G-12
2 8

CURRAGH RESOURCES INC.
Lithologic Log

Date: July 21/89 Logged By: LCP

Code	From	To	Recov.	No.	Unit	Description
1	10 14	16 20	22 24	26 28	30 34	35
	121910 2	131315 5		114	15C1617	± $ "ZEBRA ROCK"
		1/10 2 2				Soft, generally noncalcareous, strongly banded chloritic phyllite. Banding defined by dark green chlorite stripes in pale green to pale grey matrix. Locally striping becomes less strained and can see through striping to relict equigranular "spotted" igneous texture. S2 surfaces grey w/ mottled dark green spots and stripes. Locally unit is slightly dolomitic. No pyrrhotite noted. Chlorite striping locally defines S1 as well as S2. Lower contact gradational and marked by increasing alteration.
						TOI - 255.5 Slightly broken to intact w/ good recovery
						255.5 - 256.3 Insignificant mud gouge in mod broken core. Recovery OK Not a significant fault.
						256.3 - EOI Slightly broken w/ good recovery
	131315 5	131411 0		115	15C14/1$	
		1/0 3 9				Moderately hard, slightly dolomitic, PS2-foliated, altered chloritic phyllite. Colour turn to pale green w/ bright green "fuchsite" spots and streaks. S2 surfaces turn w/ green "fuchsite" spots. Core shows evidence of slip displacement w/ veins being suddenly cut off and S2 orientations changing sharply across slip surface. Lower contact sharp - not quite parallel S2.
						Core mod. broken w/ good recovery
	131411 0	131511 5		116	14D15?	± BXA (5C4) MINOR
		1/0 7 1				Hard, medium to medium-dark grey, CS2-foliated, noncalcareous pyrite. S2 surfaces are pyrite grey to carbonaceous black. Carbonaceous S2 surfaces moderately mark fingers. Dominantly dark reddish galena in S2 stringers / only minor galena is parallel S1. Estimated grade 7% Pb+Zn Unit extensively fractured along steep fractures.

DDH 89G-12

CURRAGH RESOURCES INC.
Lithologic Log

Date: July 21/89 Logged By: LCP

Code	From	To	Recov.	No.	Unit	Description
1	10 14	16 20	22 24	26 28	30 34	35
	341 0	351 5		16		locally fractures have open spaces along them
		107 1				TOI - 345.8 Moderately broken w/ good recovery Steep fractures
						27/270 wrt S2. locally develops microbxa texture w/ small angular qtzite
						clasts in carbonaceous matrix
						345.8 - 347.7 Gouge + bxa. Upper part gouge. lowermost 0.3'
						coherent tectonic bxa. Angle 30°/ wrt core axis. Recovery OK
						347.7 - EOI Very broken & rubbly along steep fractures. Recovery OK
						Two sets of fractures - conjugate 30° and 60° wrt core axis.
	351 5	383 0		17	4A4	(4D5) 80:20
		116 7				Very hard, dark grey, CS2-foliated, slightly pyritic qtzite. Ribbon-banded texture
						w/ qtz-S² bands in a fine, dark grey, cherty matrix. S2 surfaces sooty to bright
						black and mark fingers. Sphalerite about 2 times pyrite. Estimated grade 7% Pb+Zn
						locally unit becomes more uniform qtzite medium grey. S2 surfaces are dark grey w/
						silvery luster and do not readily mark fingers.
						Core very rubbly and broken over entire interval locally see bxa texture w/ qtzite and
						S² clasts in a carbonaceous matrix. Recovery seems reasonable given degree of brokenness
						of core.
	383 0	387 0		18	4D5	(4A4) 90:10
		118 0				Dominantly a medium grey, noncalcareous, CS2-foliated, very hard qtzite. S2 surfaces are
						silvery dark grey and lightly mark fingers. Sphalerite ≈ pyrite. Estimated grade
						9% (Pb+Zn). About 10-15% pyrite. Sulphides form diffuse bands parallel S2 and
						thin more sharply defined bands parallel S1. Qtzite matrix generally uniform grey.
						Uppermost 1.5 feet is ribbon-banded 4A texture. Coarser grained qtz-pyrite-sphalerite
						bands alternating w/ fine dark grey qtzite bands. Banding scale generally 1cm or so

DDH 89G-12

CURRAGH RESOURCES INC.
Lithologic Log

Page 11 of

Date: July 21/89 Logged By: KP

Code	From	To	Recov.	No.	Unit	Description
1	10 14	16 20	22 24	26 28	30 34	35
						Grade & pyrite content similar to 4D5
						Core mod. brken & slightly poker chippy. Recovery OK
	3870	3942		19	4C5	[4B5]
		1202				Dark grey, CS2-foliated, hard, noncalcareous qtzite. Non pyritic and only minor disseminated sphalerite. Estimated grade 2% (Pb+Zn) Characterized by 2-3mm thick soft, carbonaceous pressure soln stripes parallel S2. Intervals between softer stripes consists of microlithomed medium grey qtzite.
						Core very poker chippy. Only 3 feet core in 5' interval. Lacks ribbon-banding texture typical for 4A
	3942	4135		20	4A4	±3 (4D5±3±4) 95:05
		1260				Very hard, noncalcareous, CS2-foliated, dark grey, ribbon-banded, carbonaceous qtzite. Ribbon-banding defined by pale grey qtz w/ disseminated sphal + galena + pyrite in a fine-grained grey qtzite matrix. S2 surfaces are black to dark grey & moderately mark fingers. Contains thick bands 1-5cm of barren py + qtz w/ minor pale tan dolomite. Pyritic bands are crudely foliaform w/ S2.
						Estimated grade 10-13% (Pb+Zn) Sphal greater than pyrite so often get micro buckshot texture w/ pyrite grains "floating" in sphalerite-rich matrix. Estimated pyrite content overall 15%.
						Locally develops stylolitic texture w/ carbon concentrated on irregular surface.
						Locally have moderate "fading/bleaching" of the medium-dark grey qtzite matrix to form a 4D5 unit. S2 surfaces dark grey w/ silvery sheen.
						Core very brken & rubbly. Recovery OK. No bxa or gouge noted.
						Lower contact marked at end of thicker pyrite zones

DDH 89G-12

CURRAGH RESOURCES INC.
Lithologic Log

Date: July 21/89 Logged By: LCP

Code	From	To	Recov.	No.	Unit	Description
1	10 14	16 20	22 24	26 28	30 34	35
	4113 5	4215 5		21	4D5	±4
		1297				Very hard, noncalcareous, CS2-foliated, medium dark grey qtzite. Only slightly pyritic (1-2%) w/ sphalerite >> pyrite. Estimated grade 9-12% (Pb+Zn). Sphalerite concentrated in pressure soln stripes parallel S2. Also occurs in diffuse thin bands and laminae parallel S1 and S2. S2 surfaces dark silvery grey to shiny black and only moderately mark fingers. Locally can see "faded" relict ribbon banding texture typical of 4A.
						Core mod. brken w/ locally rubbly intervals 420-421 very brken & rubbly 422.5-EOI very brken & rubbly Recovery seems OK.
	4215 5	4410 5		22	4D0	±4 (5D4 ?) MINOR
		1343				Pale to medium grey, very hard, noncalcareous, slightly pyritic qtzite. S2 surfaces silvery w/ minor grey and do not mark fingers. Sphalerite >> pyrite. Sphal concentrated in PS2 stripes and diffuse bands parallel S1 and S2. Commonly have microbuckshot texture w/ pyrite "floating" in sphalerite-rich matrix.
						Estimated grade 9-12% (Pb+Zn) Pyrite content 5-10%
						At 427.5 have 10cm of tan-weathering, pale grey, soft, PS2-foliated, muscovite-qtz phyllite. Slightly dolomitic Strongly altered 5D. Marginal contacts disrupted and displaced along steep fractures
						TOI-428 Mod. brken w/ OK recovery
						428-430 Very brken & rubbly w/ some gouge. Recovery OK
						430-EOI Mod. brken w/ OK recovery Minor gouge @ 432.0

DDH 89G-12 (2 8)

CURRAGH RESOURCES INC.

Lithologic Log

Date: July 21/89 Logged By: LCP

Code	From	To	Recov.	No.	Unit	Description
1	10 14	16 20	22 24	26 28	30 34	35
	141410.5	141413.5		1213	141D151	
		1/13 5 2				Similar to last Unit @ 22 (425.5 - 440.5). Hard, CS2-foliated, medium dark grey strike. S2 surfaces are dark silvery grey. Sphalerite > Pyrite. Estimated grade 6-8 % (Pb+Zn). Entire unit incipiently fractured and gouged both along S2 surface and along steeper fracture surface. Steeper fracture 25/000 wrt S2. Recovery looks good.
	141413.5	141518.0		1214	41D151T	(5A19 [4A0])
		1/39 6				Dominant unit is medium dark grey, very hard, noncalcareous, slightly pyritic strike. S2 surfaces range from steely grey to silvery grey. Pyrite & sphalerite. Overall grade estimate 6% (Pb+Zn). Pyrite occurs as effuse bands parallel S2. Within bands both pyrite and sphalerite look to be infilling "fracture networks" within strike. CS2-foliated. Lower part of interval is thinly banded, noncalcareous, hard carbonaceous phyllite. Banding defined by alternating grey strike and black phyllite. Phyllite soft and strike hard. Banding on a scale of 0.5 cm - 1.0 cm. S2 surfaces are shiny dark grey to black and do not readily mark fingers. No grade. Core very rubbly and broken through entire interval. Recovery OK.
	141518.0	141610		1215	41L11214	→ (4C5) 70:30
		1/405				Centre of interval is hard, pale grey, micaceous, slightly pyritic strike. S2 surfaces silvery w/ greenish tinge. Generally PS2-foliated. Minor fine pyrite and sphalerite in thin bands parallel S2. Estimated grade 2% (Pb+Zn). At top and bottom grades into very hard, dark grey, strike. Slightly pyritic. Estimated grade 3% Pb+Zn. S2 surfaces are dark shiny grey. Lowest interval has coarse grained arsenopyrite concentrated in 2cm strike band parallel S2.

DDH B96-12 (2 / 8)

CURRAGH RESOURCES INC.
Lithologic Log

Date: July 22/82 Logged By: KCP

Code	From	To	Recov.	No.	Unit	Description
	10 14	16 20	22 24	26 28	30 34	35
	141518 0	141611 0		1215		Interval moderately broken up rubble at EOI and TOI. Marginal contacts hidden in rubble but probably gradational. Recovery looks OK
		1/4/05				
	141611 0	141645		1216	141A141	
		1/4/16				Very hard, dark grey, noncalcareous, ribbon-banded, carbonaceous qtzite. Banding on 0.5 cm scale w/ dark cherty bands & white to light grey qtz bands. Sphalerite >> pyrite. Estimated grade 10-12% (Pb+Zn). Sphalerite concentrated in stripes parallel S2. CS2-foliated S2 surfaces are shiny dark grey to black and do not mark fingers.
						TOI - 463 Core very rubbly w/ terrible recovery. About 0.5' core for each 1' interval.
						463 - EOI Core mod. broken w/ OK recovery
	141644 5	141665		1217	15D141	$ MINOR
		1/4/22				Moderately hard, PS2-foliated, pale tan to olive-tan, PS2-foliated, muscovite-phyllite. Contains veins of subbedded dolomite + qtz parallel S2. S2 surfaces are silvery w/ faint greenish tinge. Interval has very micaceous aspect. TOI and EOI are coarse white foliaform qtz vein rubble.
						Core moderately broken, recovery OK
	141665	141916 8		1218	13G1016 9	BIO MINOR
		1/5/14				Moderately hard, CS2-foliated to PS2-foliated, medium dark grey, noncalcareous, phyllite. S2 surfaces are dark steely grey. Contains diffuse grey qtzose siltstone (?) bands which locally contain fine disseminated pyrite. Minor reddish brown sphalerite in thin irregular streaks generally parallel S2. Locally the sphalerite has associated coarse pyrrhotite grains.

DDH 89G-12

CURRAGH RESOURCES INC.
Lithologic Log

Date: July 22/89 Logged By: LCP

Code	From	To	Recov.	No.	Unit	Description
1	10 14	16 20	22 24	26 28	30 34	35
	4665	4968		28		Minor fine biotite scattered through siltstone bands. This unit is not
		1514				typical footwall 3G "speckled / spotted"
						TOI - 487 Core slightly broken to intact - recovery good
						487 - 487.5 Moderately poker chippy - recovery good
						487.5 - 491 Slightly broken, recovery good
						491 - 493 Moderately poker chippy - recovery good
						493 - EOI Intact w/ good recovery
	4968	5040		29	3G0619	BIO MINOR (3B4 @ MINOR) 70:30
		1536				Medium dark grey, noncalcareous, PS2- to poorly CS2-foliated phyllite. Minor
						qtz-osc siltstone bands which contain disseminated pyrite and locally pale
						ankerite. S2 surfaces are dark steely grey. Minor thin bands/streaks of
						fine dark reddish sphalerite parallel S2.
						Contains two interbands of PS2-foliated, soft, pale olive tan chloritic
						phyllite. S2 surfaces silvery w/ faint greenish tinge. Slight reaction to 20%
						HCl indicating unit ankeritic. Contains coarse-grained, foliaform qtz-ankerite
						veins. Marginal contacts obscured by foliaform qtz.
						Core intact to slightly broken w/ excellent recovery
	5040	5070		30	4A47	
		1545				Dark grey, noncalcareous, PS2- foliated, carbonaceous, ribbon-banded qtzite. S2 surfaces
						are rough, black and do not mark the fingers. Sphalerite slightly > pyrite.
						Pyrite content 20%. Estimated grade 11% (Pb+Zn). Sphalerite fine-grained
						reddish-brown, and forms streaks generally parallel S2. Minor pyrrhotite as fracture
						infillings also crudely S2 foliaform. Upper & lower contacts reasonably sharp.
						Ribbon-banding on a scale <1 cm. Core very broken to rubbly - recovery good.

DDH B9G-12
2 8

CURRAGH RESOURCES INC.
Lithologic Log

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Date: July 22/89 Logged By: LCP

Code	From	To	Recov.	No.	Unit	Description
1	10 14	16 20	22 24	26 28	30 34	35
	5017 0	5115 0		31	3B41$	(3G09) 90:10
		1569				Dominant rock type is soft, PS2-foliated, dolomitic, homogeneous, pale tan-grey muscovite phyllite. Contains thin qtz-dolomite-minor pyrite veinlets parallel S2 and folded by S2. Locally has small dolomitic spots/rhombs disseminated in matrix. S2 surfaces are silvery cream.
						Minor interbands of dark grey, PS2-foliated, noncalcareous, soft phyllite. S2 surfaces are steely grey. Marginal contacts w/ pale tan lithology appears gradational over 2cm interval or is sharp. (depending on location)
						Core moderately broken. Recovery good
						EOH

DDH 89-6-12 (2 – 8) METRES

CURRAGH RESOURCES INC.
Structural Log

Page 1 of 1

Date: July 19/89 Logged By: A. Reznik

Code (1)	From (10–14)	To (16–20)	Feature (22–24)	Sym (26)	S_0 Dip (28–32)	S_0 Direct.	S_1 Dip (34–38)	S_1 Direct.	S_2 Dip (40–44)	S_2 Direct	Description
		88	CS3				60	324	70		micaceous fltns. present.
		151	CS2	I			32	270 (270)	64		" " " "
		207	CS2	Z			30	219	70		" " " "
		244	CS3				19	120	58		" " " "
		331	CS2	Z			28	225	56		" " " "
		340	CS2	S			29	000	69		thin micaceous fltns are ∥ to & define S_2.
		431	CS2	Z			20	232	68		" " " "
		472	PS2	-			T	T	63		thin micaceous fltns & comp banding are present to S_2
		524	PS2	-			T	T	68		" " "
		616	PS2	-			T	T	65		" " "
		668	CS2	Z			33	180	68		micaceous fltns & comp banding present.
		677	T	-			T	T	T		Fold Nose. Present.
		695	CS2	Z			46	215	82		micaceous fltns & comp banding are present.
		738	CS2	M			00	180	73		" " "
		811	PS2	-			T	T	69		S_2 is defined by thin chlorite bands.
		8[illegible]0	PS2	-			T	T	70		S_2 defined by thin micaceous fltns & comp banding
		896	PS2	-			T	T	65		S_2 defnd by comp banding & micaceous fltns.
		995	PS2	-			T	T	69		" " "
		1091	PS2	-			T	T			comp banding present. S_2 defnd by Sph & Py [illegible]
		1199	CS2	M			09	176	70		comp banding present. S_2 defined by Sph & Py [illegible]
		952	S2								Fold nose in 5C
		1039	PS2						62		carbonaceous folia in 4A
		1226	CS2	S			17	020	72		carbonaceous folia in 4A
		1275	CS2	Z			40	180	56		carbonaceous -S= folia in 4A
		1334	CS2	Z			60	180	58		carbonaceous S= folia in 4A
		1390	CS2						65		micaceous folia / qtz siltstone band
		1437	PS2						45		micaceous foltn
		1452	PS2	-			T	T	38		micaceous foltn.
		1530	PS2	-			T	T	53		" "

DDH 89G-12 (2–8) CURRAGH RESOURCES INC. ok

Page _____ of _____

Logged by LCP

ASSAY LOG (SAMPLER'S COPY) Date _____ Sampled by _____

CODE	FROM	TO	SAMPLE	INTR.	REC (m)	UNIT	DESCRIPTION
1	10 0 14	16 103 20	22 0 26	28 30	32 34	36 WASTE 40	42
	103.9 / 3410	105.9 / 3460	41926	50	1.5 50	4D5	
	3460	107.1 / 3515	41927	55	1.7 55	4D5	GOUGE BXA
	3515	108.5 / 3560	41928	45	1.4 45	4A4	
	3560	109.9 / 3605	41929	45	1.4 45	4A4	
	3605	111.3 / 3650	41930	45	1.4 45	4AD	
	3650	112.5 / 3692	41931	42	1.3 42	4A4	
	3692	113.9 / 3737	41932	45	1.4 45	4A4	
	3737	115.5 / 3790	41933	53	1.6 53	4AD	
	3790	116.7 / 3830	41934	40	1.2 40	4A4	
	3830	118.0 / 3870	41935	40	1.2 40	4DA	
	3870	120.2 / 3942	41936	72	1.8 60	4C5	
	3942	122.8 / 4008	41937	66	1.6 54	4A34	
	4008	123.4 / 4050	41938	42	1.3 42	4A34	
	4050	124.8 / 4095	41939	45	1.4 45	4AD3	
	4095	126.0 / 4135	41940	45	1.4 45	4A34	
	4135	127.9 / 4195	41941	45	1.4 45	4D5	
	4195	129.7 / 4255	41942	60	1.8 60	4D5	
	4255	131.2 / 4303	41943	48	1.5 48	4D0	
	4303	132.9 / 4360	41944	57	1.6 51	4D0	
	4360	134.3 / 4405	41945	45	1.4 45	4D0	
	4405	135.2 / 4435	41946	30	0.9 30	4D5	
	4435	136.9 / 4472	41947	37	1.1 37	4D5	
	4472	137.4 / 4507	41948	35	1.1 35	4D5	
	4507	138.5 / 4545	41949	38	1.2 38	4D5	
	4545	139.6 / 4580	41950	35	1.1 35	5A1	
	4580	140.5 / 4610	41951	30	0.9 30	4L1 24	
	4610	141.6 / 4645	41952	35	1.0 33	4A4	
	141.6	153.6	— 0 —	—	—	WASTE	
	153.6 / 5040	154.5 / 5070	41953	30	0.9 30	—	
	154.5	156.9	— 9 —	—	—	WASTE	
			EOH				

PROJECT _____ DRILLHOLE NO. DDH 89-12 COORDINATES: N _____ DATE July 17 1989

LOCATION _____ HOLE SIZE _____ E _____ PAGE 1 of 5

LOGGER Terry / Audrey INCLINATION _____ ELEVATION _____

PITEAU & ASSOCIATES
GEOTECHNICAL CONSULTANTS
VANCOUVER CALGARY

GEOTECHNICAL CORE LOG

DEPTH (TO)	LENGTH OF RUN	CORE RECOVERY		RQD		HARDNESS	DEGREE OF BREAKAGE		DEGREE OF WEATHERING	ROCK TYPE	BEDDING DIP		BEDDING JOINTS		CROSS JOINTS		(m) depth (to)	COMMENTS	(m) length of run
		LENGTH	length (cm)	LENGTH	length (cm)		CATEGORY	NO.			DEPTH	ANGLE	NO.	FREQ.	NO.	FREQ.			
16	16	3.2	1.0	0	0		6		D							0	4.9		4.9
20	4	4	1.2	0	0		6		D							2	6.1		1.2
24	4	4	1.2	0	0		6		D							1	7.3		1.2
27	3	2.7	.8	0	0		6		D							0	8.2		.9
31	4	4	1.2	0	0		6		E							0	9.4		1.2
32.5	1	.4	.1	0	0		6		E							0	9.9		.3
38	5.5	4.1	1.2	.4	.1		6		E							1	11.6		1.7
43	5	5	1.5	1.7	.5		7		F							0	13.1		1.5
48	5	5.0	1.5	.6	.2		7		F							1	14.6		1.5
51	3	3	.9	1.2	.4		8		F							2	15.5		.9
54	3	2.8	.8	0.4	.1		6		F							0	16.5		.9
57	3	1.9	.6	0	0		6		F							0	mislatch 17.4		.9
60.5	3.5	3.5	1.1	0	0		6		F							0	18.4		1.1
65	4.5	4.5	1.4	0	0		6		F							1	19.8		1.4
68	3	3	.9	0	0		6		F							1	20.7		.9
72	4	3.9	1.2	0	0		6		F							3	21.9		1.2
76	4	4	1.2	0	0		6		F							2	23.2		1.2
81	5	5	1.5	1.55	.5		7		E							0	24.7		1.5
85	4	4	1.2	0.4	.1		6		F							0	25.9		1.2
90	5	4.9	1.5	0	0		6		F							2	27.4		1.5
95	5	5	1.5	2.3	.6		8		F							0	28.9		1.5
100.5	5.5	4.8	1.5	2	.6		7		F							1	30.6		1.7
107.5	7	7	2.1	0	0		6		F							3	32.8		2.1
111.5	4	4	1.2	0.85	.3		7		F							0	33.9		1.2
114.5	3	2.7	.8	0	0		6		F							0	34.9		.9
119	4.5	4.5	1.4	0	0		6		F							2	36.3		1.4
123	4	4	1.2	0	0		6		E							1	37.5		1.2
127	4	4	1.2	0	0		6		F							1	38.7		1.2

Fig. 1. Typical rock mechanics core log.

PROJECT _____ DRILLHOLE NO. 89-6 12 COORDINATES: N _____ DATE July 17 1989

LOCATION _____ HOLE SIZE _____ E _____ PAGE 2 of 5

LOGGER Regnak / Kehoe INCLINATION _____ ELEVATION _____

PITEAU & ASSOCIATES
GEOTECHNICAL CONSULTANTS
VANCOUVER CALGARY

GEOTECHNICAL CORE LOG

DEPTH (TO)	LENGTH OF RUN	CORE RECOVERY		RQD		HARDNESS	DEGREE OF BREAKAGE		DEGREE OF WEATHERING	ROCK TYPE	BEDDING DIP		BEDDING JOINTS		CROSS JOINTS		(m) depth (TO)	COMMENTS	(m) length of run
		LENGTH	length (m)	LENGTH	length (m)		CATEGORY	NO.			DEPTH	ANGLE	NO.	FREQ.	NO.	FREQ.			
39.5	3.5	2.2	.7	0	0		6		F						0		39.8		1.1
135	4.5	4.5	1.4	0.5	.2		6		F						1		41.1		1.4
139.5	4.5	4.5	1.4	0.75	.2		6		E						1		42.5		1.4
44.5	5	5	1.5	0	0		6		F						2		44.0		1.5
148.5	4	3.9	1.2	0.75	.2		7		F						0		45.3		1.2
150.5	2	2	.6	0	0		6		F						0		45.9		.6
155	4.5	4.5	1.4	1.15	.4		7		F						1		47.2		1.4
159	4	3.9	1.2	1.65	.5		7		F						0		48.5		1.2
165	6	5	1.5	1.7	.5		7		F						0		50.3		1.8
167.5	2.5	2.4	.7	0	0		6		F						0		51.5		.8
170	2.5	2.25	.7	0	0		6		F						0		51.8		1.4
174.5	4.5	3.7	1.1	0	0		6		F						1		53.2		1.4
179	4.5	4.5	1.4	1	.3		7		F						2		54.6		1.4
186	7	4	1.2	0.95	.3		7		F						1		56.7		2.1
190	4	3.4	1.0	0.5	.2		7		F						2		57.9		1.4
193	3	3	.9	0.7	.2		7		F						3		58.8		.9
198	5	5	1.5	0.35	.1		6		F						3		60.4		1.5
202	4	4	1.2	0.7	.2		6		F						1		61.6		1.2
207	5	5	1.5	1.2	.4		7		F						1		63.1		1.5
212	5	5	1.5	0	0		7		F						1		64.6		1.5
214.5	2.5	2.5	.8	0	0		6		D						2		65.4		.2
218	3.5	3.9	1.2	0.35	.1		6		D						2		66.4		1.1
222	4	4	1.2	0.7	.2		7		E						0		67.7		1.2
227	5	5	1.5	1.1	.3		7		E						1		69.2		1.5
232	5	4.9	1.5	1.17	.4		7		E						1		70.7		1.5
237	5	5	1.5	0	0		6		F						2		72.2		1.5
242	5	5	1.5	2.4	.7		8		F						1		73.8		1.5
247	5	5	1.5	1.9	.6		8		F						0		75.3		1.5

Fig. 1. Typical rock mechanics core log.

PROJECT _____ DRILLHOLE NO. 89-G12 COORDINATES: N _____ DATE July 17 1989

LOCATION _____ HOLE SIZE _____ E _____ PAGE 3 of 5

LOGGER Reynolds/Kerber INCLINATION _____ ELEVATION _____

PITEAU & ASSOCIATES
GEOTECHNICAL CONSULTANTS
VANCOUVER CALGARY

GEOTECHNICAL CORE LOG

DEPTH (TO)	LENGTH OF RUN	CORE RECOVERY		RQD		HARDNESS	DEGREE OF BREAKAGE		DEGREE OF WEATHERING	ROCK TYPE	BEDDING DIP		BEDDING JOINTS		CROSS JOINTS		(m) depth (to)	COMMENTS	(m) length of run
		LENGTH	length (m)	LENGTH	length (m)		CATEGORY	NO.			DEPTH	ANGLE	NO.	FREQ.	NO.	FREQ.			
250	3	3	.9	0	0		6		F						2		76.2		.9
255	5	5	1.5	0.7	.2		7		F						1		77.7		1.5
259	4	4	1.2	1.05	.3		7		F						2		78.9		1.2
269.5	10.5	10.5	3.2	2.2	.7		7		F						5		82.1		3.2
274.5	5	5	1.5	0.9	.3		7		F						2		83.7		1.5
280	5.5	5.15	1.6	0.35	.1		7		F						2		85.3		1.7
285	5	5	1.5	1.75	.5		7		F						2		86.9		1.5
290	5	5	1.5	1.9	.6		9		F						0		88.4		1.5
295	5	5	1.5	0.35	.1		8		F						1		90.0		1.5
300	5	5	1.5	1.1	.3		8		F						2		91.44		1.5
305	5	5	1.5	1.4	.4		8		F						1		93.0		1.5
310	5	5	1.5	2.55	.8		9		F						0		94.4		1.5
315	5	5	1.5	2	.6		7		F						0		96.0		1.5
320	5	5	1.5	2.7	.8		9		F						0		97.5		1.5
325.5	5.5	5.4	1.6	3.25	1.0		9		F						2		99.2		1.7
330.5	5	5	1.5	1.75	.5		7		F						1		100.7		1.5
336	5.5	5.5	1.7	2.5	.8		9		F						2		102.4		1.7
341	5	5	1.5	1.25	.4		9		F						3		103.9		1.5
346	5	5	1.5	0	0		6		F						2		105.5		1.5
351.5	5.5	5.5	1.7	0.9	3		6		E						2		107.1		1.7
356	4.5	3.6	1.1	0	0		5		E						3		108.5		1.4
358	2	1.8	.5	0	0		5		E						1		109.1		.6
359.5	1.5	1.5	.5	0	0		5		E						1		109.6		.5
364.5	5	5	1.5	0	0		6		F						1		111.1		1.5
368	3.5	3.5	1.1	0	0		5		D						1		112.2		1.1
372	4	4	1.2	0	0		6		E						2		113.4		1.2
376	4	3.7	1.1	0	0		3		D						3		114.6		1.2
380	4	4	1.2	0	0		3		D						2		115.8		1.2

Fig. 1. Typical rock mechanics core log.

PROJECT _____ DRILLHOLE NO. 89G-12 COORDINATES: N _____ DATE July 17 1989

LOCATION _____ HOLE SIZE _____ E _____ PAGE 4 of 5

LOGGER Bagnit + Kerber INCLINATION _____ ELEVATION _____

PITEAU & ASSOCIATES
GEOTECHNICAL CONSULTANTS
VANCOUVER CALGARY

GEOTECHNICAL CORE LOG

DEPTH (TO)	LENGTH OF RUN	CORE RECOVERY		RQD		HARDNESS	DEGREE OF BREAKAGE		DEGREE OF WEATHERING	ROCK TYPE	BEDDING DIP		BEDDING JOINTS		CROSS JOINTS		(m) depth (+0) COMMENTS	(m) length of run
		LENGTH	length (m)	LENGTH	length (m)		CATEGORY	NO.			DEPTH	ANGLE	NO.	FREQ.	NO.	FREQ.		
383.5	3.5	3.4	1.0	0	0		5		E						0		116.9	1.1
388.5	5	5	1.5	0.5	.2		6		F						1		118.4	1.5
393.5	5	3.1	.9	0	0		6		E						4		119.9	1.5
399.5	6.0	4.55	1.4	0.4	.1		6		F						2		121.8	1.8
404.5	5	5	1.5	0.95	.3		7		F						2		123.3	1.5
407.5	3	30	.9	0	0		6		F						3		124.2	.9
411	3.5	3.5	1.1	0.6	.2		6		F						1		125.3	1.1
415.5	4.5	4.5	1.4	0	0		6		F						3		126.6	1.7
421	5.5	5.4	1.6	0.75	.2		6		F						1		128.3	1.7
424.5	3.5	3.5	1.1	0.4	.1		7		F						4		129.4	1.1
428.5	4	4	1.2	0.35	.1		7		F						2		130.6	1.2
433.5	5	4.2	1.3	0.4	.1		6		F						1		132.1	1.5
437.5	4	4	1.2	0	0		6		F						3		133.4	1.2
442	4.5	4.5	1.4	0.75	.2		7		E						1		134.7	1.4
446.5	4.5	4.3	1.3	0	0		6		E						1		136.1	1.4
449	2.5	2.5	.8	0	0		5		E						2		136.9	.8
453.5	4.5	4.4	1.3	0	0		5		E						2		138.2	1.4
457.5	4	4	1.2	0	0		6		E						3		139.4	1.2
461	3.5	3.5	1.1	0	0		6		F						5		140.5	1.1
462	1	0.75	.2	0	0		5		E						0		140.8	.3
463	1	0.75	.22	0	0		5		E						0		141.1	.3
466.5	3.5	3.5	1.1	0	0		6		F						4		142.2	1.1
471.5	5	5	1.5	1.45	.4		8		F						2		143.7	1.5
476.5	5	5	1.5	1.8	.5		9		F						2		145.2	1.5
482	5.5	5.3	1.6	1.95	.6		9		F						0		146.9	1.7
487	5	5	1.5	2.75	.8		10		F						0		148.4	1.5
492	5	5	1.5	0.85	.3		8		F						1		~~74~~ 150.0	1.5
494	2	2	.6	0	0		6		F						1		150.5	.6

Fig. 1. Typical rock mechanics core log.

PROJECT _____ DRILLHOLE NO. BBG-12 COORDINATES: N _____ DATE July 17 1989

LOCATION _____ HOLE SIZE _____ E _____ PAGE 5 of 5

LOGGER Reznek/Herbert INCLINATION _____ ELEVATION _____

PITEAU & ASSOCIATES
GEOTECHNICAL CONSULTANTS
VANCOUVER CALGARY

GEOTECHNICAL CORE LOG

DEPTH (TO)	LENGTH OF RUN	CORE RECOVERY		RQD		HARDNESS	DEGREE OF BREAKAGE		DEGREE OF WEATHERING	ROCK TYPE	BEDDING DIP		BEDDING JOINTS		CROSS JOINTS		(m) depth (to) COMMENTS	(m) length of run
		LENGTH	length (m)	LENGTH	length (m)		CATEGORY	NO.			DEPTH	ANGLE	NO.	FREQ.	NO.	FREQ.		
497	5	5	1.5	2.3	.7		11		F						1		152.1	1.5
504	5	5	1.5	3.3	1		9		F						0		153.6	1.5
506	2	2	.6	0.35	.1		6		F						1		154.2	.6
511	5	5	1.5	0.75	.2		9		F						4		155.8	1.5
515	4	4	1.2	1.05	.3		7		F						2		157.0	1.2
							EOH											

Fig. 1. Typical rock mechanics core log.

89-G-13

CURRAGH RESOURCES INC.

Page 1 of ____

DIAMOND DRILL CORE LOG

Date: _____

Hole Number: 89G-13

Reference Fabric Orientation Diagram:

Project: GLUM FILL-IN

Location: _____

Claim: _____

UTM ~~Terr.~~ Plane Co-ords.: 6905300.010 N 6,756.91N

592090.320 E 2,819.96E

Grid Co-ords: 86W / 7N

Elevation: 1313.152

All symmetry determinations looking

Total Depth: 599 feet _____ with _____ dipping

Inclination: -65° to NE _____ with dip azimuth _____.

Purpose: _____

Reason hole Terminated: _____

Logged by: _____ Date(s) Logged: _____

Drilling Contractor: ARCTIC

Hole Cemented: _____ Steel down Hole: _____

Assay Lab: _____

Certificate No's: _____

CORE Size	From	To
NW	0	13 feet
NQ	13	_____
_____	_____	_____

Collar Cased and Capped: _____

Started: July 13/89 Completed: July 15/89

CURRAGH RESOURCES INC.

Diamond Drill Core Log

DDH 819G-113

Date: _____ Logged By: _____

Code	Drillhole	Elevation	Northing	Easting	Units (feet/metres)	R.F.E.	
I	2 8	10 16	17 24	25 32	34 39	41 42	
T							

feet

Code	Drillhole	Depth	Zenith Angle	True Azimuth	Comments
I	2 8	10 14	22 26	28 32	34 56
R	819G-113	100	-165° 0	014 21° 0	AT COLLAR
R	819G-113	1281 3 0	-170 1° 0	015 19° 0	SPERRY SUN
R	819G-113	1413 3 0	-172 1° 0	016 17° 0	SPERRY SUN
R	819G-113	1581 3 0	-171 4° 0	017 10° 0	SPERRY SUN
R			°	°	
R			°	°	
R			°	°	
R			°	°	
R			°	°	
R			°	°	
R			°	°	
R			°	°	
R			°	°	
R			°	°	
R			°	°	
R			°	°	
R			°	°	
R			°	°	
R			°	°	
R			°	°	
R			°	°	
R			°	°	
R			°	°	
R			°	°	

Code	Drillhole	Comments, Errant Remarks, Snivellings and / or Lewd Suggestions
I	2 8	10 56

DDH 89G-13

CURRAGH RESOURCES INC.

Lithologic Log

Date: Aug 3/89 Logged By: LCP

Code	From	To	Recov.	No.	Unit	Description
	100	113 4 0		1	#1	TRICONED – NO RECOVERY
	113 0	161 1 2 18 7		2	5B017	± 2 Soft, CS2-foliated, medium grey, calcareous, thinly banded phyllite. S2 surfaces range from silvery grey to dark steely grey. Cut surface has distinct medium green tinge/hue when wet. S1 microlithons defined by pale grey to off-white, qtz-calcite siltstones ranging up to 3cm in thickness. Commonly marginal contacts of siltstones are S2 pressure soln. stripes. Scattered subhedral pyritic porphyroblasts, typically w/ white qtz-calcite pressure soln. shadows in S2. Gets darker in grey colours just before next unit. TOI- 16 feet has patchy orange Fe-oxide stains on S2. Also has some scattered pyrite porphyroblasts. TOI-20 mod. broken & poker chips w/ good recovery // 20-21 = 1 foot sand = cave in hole // 21-EOI mod. broken to poker chippy recovery OK
	161 2	174 6 22 7		3	5B170	± 3 (5DO) 70:30 Soft, CS2-foliated, thinly banded, calcareous to very calcareous phyllite. Colours ranges from pale greens to grey-green. S2 surfaces range from silvery pale greens to silvery grey. Greenish portions of interval are adjacent to 5DO lithology. Compositional banding and S1 microlithons defined by qtz-calcite siltstone bands ranging from a few mm to a few cm in thickness. Lithology has lithified aspect and breaks w/ poker chippy aspect. Intervals 61.2-64.0, 71.8-72.9, 73.6-74.6 consists of soft, homogeneous, pale olive, PS2-foliated, calcareous chlorite phyllite. Cut surface has slightly rough silky feel. S2 surfaces are pale olive. Contains thin white qtz-calcite veins parallel S1. Marginal contacts are sharp parallel S1. Core mod. broken to slightly poker chippy w/ good recovery.

DDH 89G-13 (2 8)

CURRAGH RESOURCES INC.

Lithologic Log

Date: Aug 4/89 Logged By: LCP

Code	From	To	Recov.	No.	Unit	Description
1	10 14	16 20	22 24	26 28	30 34	35
	1714 6	1110 0 33 5		14	5B1017	Soft, CS2-foliated, pale grey, thinly banded phyllite. Calcareous. S2 surfaces are light silvery grey. Cut surface has medium green tinge when wet. S1 microlithons defined by grey to off-white qtz-calcite siltstone bands and laminae up to 3cm thick. Minor scattered pyrite porphyro blasts. Core mod. broken to slightly poker chippy. Recovery OK. No core from 82'-87' because of misletch.
	1110 0	1117 0 35 7		15	5B1017	(5DO) 90:10 Dominantly a pale grey, calcareous, soft, thinly banded phyllite. S2 surfaces are light silvery grey. S1 microlithons defined by pale grey qtz-calcite siltstone bands and laminae. Minor subhedral to irregular pyrite porphyroblasts. Contains thin intervals of pale olive, homogeneous, calcareous, PS2-foliated chlorite phyllite. S2 surfaces are shiny olive green. Marginal contacts are sharp parallel S1. Lowest 5D contains 15 cm pegmatitic white qtz-calcite vein. Core moderately poker chippy w/ 5cm incipient gouge @ EOI. Recovery OK
	1117 0	1143 0 43 6		16	5B1017	Pale grey, CS2-foliated, calcareous, soft, thinly banded phyllite. Banding defined by thin pale grey qtz-calcite laminae & bands in a grey, noncalcareous, micaceous interbands/matrix. Siltstone bands range from a few mm to a few cm in thickness. S2 surfaces are light silvery grey. Cut surface has distinct medium green tinge when wet. Core mod. broken to moderately poker chippy w/ good recovery. Lowest contact gradational.

DDH 89G-13 (2 8)

CURRAGH RESOURCES INC.
Lithologic Log

Page 5 of

Date: Aug 4/89 Logged By: LCP

Code	From	To	Recov.	No.	Unit	Description
1	10 14	16 20	22 24	26 28	30 34	35
	1430	1606		7	5B07	$
		490				Soft, CS2-foliated, calcareous, thinly banded phyllite. Pale grey when dry w/ medium green tinge on cut surface when wet. S2 surfaces are silvery grey to pale shiny, creamy green. Contains thin pale grey qtz-calcite siltstone bands and laminae in a noncalcareous, micaceous phyllite matrix. Distinguished from previous unit because siltstone bands and micaceous phyllite bands both contain scattered euhedral, tan-weathering dolomite rhombs up to 2mm across. Also contains both pyrite and pyrrhotite isolated porphyroblasts.
	1606	2033		8	5B70	± B10 ± $ (5D0 ± B10) 80:20
		620				Interbanded mixture of 2 rock types which are difficult to distinguish. Primarily a soft, pale grey to pale green, calcareous, CS2-foliated, thinly banded phyllite. S2 surfaces range from pale silvery green to pale silvery grey. Locally contains biotite as thin selvages around calcareous siltstone bands and laminae. Minor scattered, irregular pyrrhotite porphyroblasts. Banding defined by qtz-calcite siltstone laminae which are locally indistinct.
						Interbands of pale green, homogeneous, PS2-foliated, calcareous chloritic phyllite. Contains minor S1-parallel thin qtz-calcite veinlets. S2 surfaces are shiny pale green. Intervals definitely of this rock type are 177-179 and 196.8-201. Suspect that have some other thin bands in portions of this unit. Where distinguished marginal contacts are sharp parallel S1. Contains minor disseminated biotite locally.
						Core mod. broken to mod. poker chippy. Recovery OK. No major faults - no gouges
	2033	2070		9	5B20	
		631				Medium dark grey, CS2-foliated, calcareous, thinly banded, soft phyllite. S2 surfaces are medium to light silvery grey. Banding defined by thin medium grey qtz-calcite

DDH BGG-13

CURRAGH RESOURCES INC.

Lithologic Log

Date: Aug 4/89 Logged By: LCP

Code	From	To	Recov.	No.	Unit	Description
1	10 14	16 20	22 24	26 28	30 34	35
						siltstone intervals up to 3cm thick. Minor scattered, irregular pyrrhotite porphyroblasts. Also irregular pyrrhotite w/ trace cpy as irregular fracture infillings. Core mod. broken. Recovery good.
	121017 0	121115 64 5		110	151B1$12	(50$) TRACE
						Soft, CS2-foliated, thinly banded, dolomitic, medium grey phyllite. S2 surfaces are light steely grey and do not mark fingers. S1 microlithons poorly defined by medium grey qtz-dolomite siltstone bands. Also ten-weathering dolomite seams w/ pegmatitic white qtz are thin S2-parallel veinlets. Micaceous phyllitic interbands are medium to dark grey on cut surface. Core mod broken - recovery good. Contains 1 3cm band of pale olive dolomitic phyllite @ 208.5 feet
	121115	121220 67 7		111	151D101	$ MINOR (58.7$)(41.0$) 90:05:05
						Major unit is soft, PS2-foliated, pale olive, calcareous phyllite. Contains thin qtz-calcite veinlets parallel S1 foliations. S2 surfaces are slightly rough pale olive. As go down DDH the unit becomes increasingly off-white and increasingly ten-weathering. Marginal contacts are sharp parallel S1. TOI-212.7 consists of pale green, slightly dolomitic, poorly CS2-foliated phyllite. S2 surfaces are very micaceous, smooth, silvery pale green. Locally unit contains thin dark grey carbonaceous laminae parallel S1. Minor irregular pyrite porphyroblasts present. Interval 217.3-EOI consists of similar unit only colour is pale cream. S2 surfaces are silvery cream from muscovite-qtz phyllite. Minor irregular pyrite porphyroblasts present.
						Interval slightly broken. Recovery generally good. At end of unit have 5cm rubble and mud gouge. For interval 217-222 only 1.8 feet core recovered. All of loss probably in this gouge zone.

DDH 89G-13 (2 8)

CURRAGH RESOURCES INC.
Lithologic Log

Date: Aug 6/89 Logged By: LCP

Code	From	To	Recov.	No.	Unit	Description
1	10 14	16 20	22 24	26 28	30 34	35
	12212 0	12215 7 68 8		112	15A1$1	(5D46) BxA 98:02 Moderately soft, PS2-foliated, very dark grey, slightly dolomitic gtzose phyllite. S2 surfaces are slightly rough, shiny black but don't mark fingers. Contains thin dark grey gtzose siltstone bands up to 2cm thick. Overall unit very contorted w/ incipient bxa developing along fractures running straight down core axis. Slightly anastamosing fracture network. Some displacement occurs across the fractures. AT TOI have 10cm black mud gouge. Then have 15cm piece of 5D64. Upper margin of 5D consists of bxa w/ clasts of 5D and 5A in a dark grey to black fine-grained matrix. Bxa has orientation 25° wrt core axis. 5D consists of pale cream, noncalcareous, PS2-foliated, moderately hard phyllite. S2 surfaces are silvery cream. Overall composition muscovite-qtz phyllite. TOI - 222.4 mud gouge // 222.4 - EOI. mod. broken. Recovery OK Possible major fault except unit similar on both sides. Strong "dolomite" alteration.
	12215 7	12318 5 72 7		113	15D141$	(5A $1) 98:02 Soft, PS2-foliated, slightly dolomitic, pale tan to brownish olive, chlorite-muscovite phyllite. S2 surfaces are silvery-tan-olive. Overall cut surface has a slightly rough, silky aspect. Contains thin gtzose veinlets parallel S1. Minor scattered pyrite. porphyroblasts are locally partly reacted to pyrrhotite. Contains interbands up to 10cm thick of CS2-foliated, moderately hard to hard, slightly dolomitic, dark grey to black, thinly banded phyllite. S2 surfaces are shiny black but only slightly mark the fingers. Marginal contacts w/ 5D are sharp parallel S1. Locally carbonaceous bands are extremely thin - present only as laminae - extensive size change in fold hinges w/ very thin sheared out limbs - PHOTOS TAKEN Core intact w/ good recovery

DDH 89G-13
2 8

CURRAGH RESOURCES INC.
Lithologic Log

Date: Aug 6/89 Logged By: LGO

Code	From	To	Recov.	No.	Unit	Description
1	10 14	16 20	22 24	26 28	30 34	35
	12318 5	12513 0 77 1		114	5B1213	± 7 MINOR (5DO) 70:30
						Moderately soft, CS2-foliated, dark grey, very calcareous, thinly banded phyllite. S2-surfaces are shiny black and moderately marks fingers. Siltstone compositional bands between S2 pressure soln stripes contain abundant calcite. Also at 246' have 5cm band of medium xlline grey marble. Phyllite contains minor small ovoids in S2, fine, black chert nodules. Also minor, scattered, subhedral pyrite porphyroblasts
						Contains interbands of soft, pale olive, PS2-foliated, homogeneous, calcareous, chloritic phyllite S2 surfaces are medium chloritic green. Contains thin, banded, qtz-calcite veinlets parallel S1 and/or S2. Also contains minor diffuse calcareous compositional bands. Marginal contacts w/ dark grey phyllite are sharp, parallel S1. Locally dark grey phyllite bleached adjacent to 5D.
						TOI - 241.7 Very poker chippy & locally rubbly Only minor incipient gouge.
						Recovery OK // 241.7 - EOI used to slightly broken. Recovery OK
	12513 0	12613 7 80 4		115	5B1017	(5DO)(5B70) 35:35:30
						At TOI and EOI have soft, calcareous, thinly banded, medium green-grey phyllite. S2 surfaces silvery green-grey CS2-foliated to locally PS2-foliated. S1 microlithons defined by thin grey qtz-calcite siltstone bands and laminae. Cut surface has a medium green tinge when wet.
						Central portion of unit consists of interbanded 5DO and 5B70. 5DO is soft, PS2-foliated, calcareous, pale olive chlorite phyllite. S2 surfaces are shiny olive green. locally has diffuse white calcite compositional bands defining D2 minor folds. Interbanded with it is pale green, thinly banded, CS2-foliated chlorite-musc-qtz phyllite Calcareous. Green colour blends green rather than olive. Marginal contacts w/ 5D sharp parallel S1. Locally difficult to distinguish these two units. S2

DDH 89G-13

CURRAGH RESOURCES INC.
Lithologic Log

Page 9

Date: Aug 7/89 Logged By: LCP

Code	From	To	Recov.	No.	Unit	Description
1	10 14	16 20	22 24	26 28	30 34	35
		2613 7		15		surfaces are silvery pale green w/ local greyish tint Calcareous. Distinguished from 5D mainly on thinly banded, CS2 fabric, and bluish tinge to the green. Core mod. brken w/ good recovery.
	2613 7	2811 8 85 9		16	5B07	Medium grey, CS2-foliated, calcareous, thinly banded phyllite. Cut surface has medium green tinge when wet. S2 surfaces are shiny to steely grey — locally w/ a slight greenish tinge. CS2 fabric locally very well developed w/ pale grey qtz-calcite siltstone bands and laminae defining S1 microlithons. TOI - 271.0 mod. poker chippy w/ good recovery // 271.0 - 272.5 very poker chippy w/ incipient gouge - recovery good // 272.5 - EOI mod. brken w/ good recovery. No major faults
	2811 8	2817 3 87 6		17	10Q81	(5B70)(5D0) 90:05:05 Dominantly a pegmatitic white bull qtz vein w/ irregular selvages and aggregates of green chlorite, white feldspar, and white to cream calcite. Chlorite as irregular thick to thin aggregates within white qtz. Interbanded have intervals of PS2-foliated, pale green to medium green, soft, slightly calcareous phyllite. S2 surfaces are silvery green. Strong planar PS2 fabric. Includes both metapelites (5B) and meta igneous (5D) paints. In any one piece of core difficult to distinguish between the two units. Core mod brken w/ 10 cm rubbly zones @ TOI, 287', EOI.
	2817 3	2923 89 1		18	5B07	Soft, slightly calcareous, medium grey-green, poorly CS2-foliated, thinly banded phyllite

DDH 89G-13 (2–8)

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Code	From (10–14)	To (16–20)	Recov. (22–24)	No. (26–28)	Unit (30–34)	Description (35)
		12912 3		118		Similar to Unit # 16 (263.7-281.8). Cut surface has strong medium green tinge when wet. S2 surfaces are dark steely grey but do not mark fingers. Calcite veins in thin, poorly defined, discontinuous, greenish grey, siltstone bands. These siltstones also define S1 microlithons. Contains minor scattered, subhedral pyrrhotite porphyroblasts. Core mod. brken w/ good recovery
	12912 3	13010 2 91 5		119	5C6 7	"ZEBRA ROCK" Soft to moderately soft, medium grey-green, noncalcareous, PS2-foliated chloritic phyllite. Consists of thin, anastamosing, medium green chlorite laminae in a medium xlline grey matrix. S2 surfaces are shiny medium to pale green w/ dark green patches. Unit locally reacts very slightly to 20% HCl. Strongly sheared, "carbonated" metabasite. Core mod. brken w/ good recovery
	13010 2	13314 5 102 0		120	5B7 6	± 0 (5D6) 95:05 Majority of unit consists of soft, medium to medium dark green, PS2-foliated to poorly CS2-foliated, generally noncalcareous phyllite. Locally it contains thin siltstone bands preserving S1 microlithons. The siltstone bands are locally calcareous. S2 surfaces range from silvery pale green to medium greenish grey. Unit becomes lighter green near TOI and EOI. Considered metapelite because of grey tinge to S2 surfaces locally, sparse presence of thin, folded, pale siltstone bands. Ends of interval are pale green, PS2-foliated, noncalcareous, soft phyllite. S2 surfaces are shiny pale green. Homogeneous nature suggests that TOI and EOI are strongly strained metabasite which is difficult to distinguish from the metapelite. Suggested SD margin appears to extend for about 3 feet at top and bottom of unit. TOI-322.0 very brken & poker chippy but only rubble zones - no gauges

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Code	From	To	Recov.	No.	Unit	Description
1	10 14	16 20	22 24	26 28	30 34	35
						recovery OK except 310.5 - 315.0 here only 3.2 feet core // 322 - EOI mod. broken to mod poker chippy - 15cm incipient gouge @ 325' and 327.5'. Recovery OK.
	131314 5	131412 4 104 4		1211	15C1417	6 "ZEBRA ROCK" Soft to moderately hard, PS2-foliated, noncalcareous, grey-green chloritic phyllite. TOI consists of medium xlline grey matrix w/ thin anastomosing medium to dark green chlorite laminae defining S2. S2 surfaces are patchy grey green. As go down DDH begin to get gradual changes marked by 1) appearance of streaks of bright blue-green "fuchsite" within S2. 2) unit becomes gradually harder 3) grey matrix w/ green laminae gives way to more uniform greenish grey chloritic (?) phyllite. 4) becomes progressively more extensively tan-weathering. Could be logged as gradual transition 5C76 → 5D46. More strongly PS2-foliated at EOI S2 surfaces are tan w/ bright green spots. Core mod. brken w/ good recovery At 336 feet have steep fracture w/ minor bxa developed Offset on fracture uncertain but definitely at least 10cm. Orientation 15/270 wrt S2.
	131412 4	131515 0 108 2		1212	14D141	±7 (5D46) 85:15 Interval 347.8 - 349.5 consists of noncalcareous, PS2-foliated, moderately hard, beige muscovite-quartz phyllite. Homogeneous with thin off-white qtz veinlets parallel S1. S2 surfaces are silvery tan Unit tan-brown weathering. Contains numerous bright blue green "fuchsite" streaks/spots on S2.

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Date: Aug 7/89 Logged By: KP

Code	From	To	Recov.	No.	Unit	Description
1	10 14	16 20	22 24	26 28	30 34	35
		13515 0		1212		Dominant unit is very hard, off-white, noncalcareous, slightly pyritic qtzite. S2 surfaces qtzite grey w/ a few small silvery muscovite patches. Fine-grained reddish brown sphalerite in compositional bands and laminae parallel S2 and S1. In addition sphalerite remobilized into later fractures. In one location of fine pyrrhotite w/ sphalerite. More commonly have minor micro buckshot texture w/ pyrite grains floating in sphalerite matrix. Estimated grade 11% (Pb+Zn) Pyrite content 5-10%. Unit has extensive incipient fracturing.
						Unit mod. brkn overall. Very rubbly @ 350-351. Interval 349-355 has only 2.5 feet core. Probably lost mainly near 355 feet.
	13515 0	13711 0		1213	14D514	(4C5)(4A4) 50:40:10
		113 1				Dominantly a very hard, noncalcareous, CS2-foliated, medium-dark grey qtzite. S2 folia are dark carbonaceous grey to silvery dark grey. Abundant sphalerite as anastomosing streaks and laminae defining S1. Also slightly thicker pressure soln stripes parallel S2. Thicker sphalerite stripes typically have minor fine pyrite grains floating in a sphalerite-rich matrix. Qtzite slightly "bleached" relative to typical 4A so qtz-S= banding not visible. Estimated grade 12-15% Pb+Zn. Pyrite content 5%.
						For lowermost 3 feet of interval have similar coloured and textured material only sphalerite-absent. Instead have diffuse pyrite-qtz compositional bands up to 2cm thick parallel S2 and only minor sphalerite. Pyrite content 10-15%. Estimated grade 3% (Pb+Zn)
						Interval also contains minor pyritic dark grey qtzite w/ well developed light grey qtz-pyrite-sphalerite ribbon-banding in fine, dark grey cherty matrix. Sphalerite 2X to 3X pyrite. Estimated grade 10% (Pb+Zn) w/ pyrite content 5%. This has the classic 4A ribbon-banded texture.

DDH 89G-13 (2 8)

CURRAGH RESOURCES INC.
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Date: Aug 7/89 Logged By: LCP

Code	From	To	Recov.	No.	Unit	Description
1	10 14	16 20	22 24	26 28	30 34	35
		3711 0		213		TOI - 358 rubble of 4A - only 1 foot core recovered // 358 - 363 slightly to mod. brken w/ good recovery // 363 - 368 very brken & rubbly Between 365 - 368 only 2 feet core recovered. // 368 - EOI moderately poker chippy w/ good recovery. Some S2 surfaces polished by movement along S2 surface.
	3711 0	3719 5 115 7		214	4A	GOUGE Black mud gouge. Contains angular pieces of dark grey to black qtzite. TOI - 373.5 Have 0.5 feet core missing 373.5 - 375.5 Only one foot of mud gouge 375.5 - 379.0 Only 2 feet total of mud gouge 0.5 feet good rock 379.0 - EOI rubble and gouge. recovery OK
	3719 5	3814 0 117 0		215	4A4	→ (4D4 ± 5) 80:20 Dominantly a very hard, noncalcareous, dark grey, PS2-foliated qtzite. Shows classic 4A textures w/ pale grey qtz-sphalerite ± pyrite compositional bands in a fine dark grey "cherty" qtzite matrix. Ribbon-banding is discontinuous along S2. S2 surfaces are dark shiny black but only slightly mark fingers. Sphalerite several times pyrite - pyrite forms microbuckshot texture in fine reddish sphalerite. Pyrite content 2% Estimated grade 11% (Pb+Zn) In bottom 1 foot unit quickly lightens to pale grey qtzite as approach next unit. S2 surfaces qtzite grey w/ patchy silvery muscovite. Estimated Pb+Zn content increases to 15%. At lowermost contact pyrite content also increases significantly. Core mod. to very brken w/ good recovery

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2 8

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Code	From	To	Recov.	No.	Unit	Description
1	10 14	16 20	22 24	26 28	30 34	35
	131814 0	131816 2 117 7		1216	5IC1416	(4DO) 95:05 Mainly pale green to beige, noncalcareous, moderately soft, PS2-foliated muscovite-qtz phyllite. Weathers to a pale tan. Contains thin discontinuous streaks parallel S2 of bright blue-green "fuchsite." Also contains a 3cm band of pale white, very hard, noncalcareous qtzite. Qtzite has S1 parallel laminae to bands w/ fine-grained reddish sphalerite. Good grade. Identical to next unit. Core mod. broken to locally rubbly. Recovery OK.
	131816 2	141016 2 123 8		1217	14D141	7MINOR 8MINOR 9MINOR Very hard, noncalcareous, CS2-foliated, pale grey qtzite. S2 surfaces off white qtzite w/ very minor silvery fine muscovite patches. Contains abundant fine reddish sphalerite w/ lesser pyrite. Sphalerite forms thin laminae parallel S1 and thicker compositional bands parallel S2. Within bands has microbx texture w/ rounded qtz grains floating within an anastomosing network of sphalerite, w/ lesser pyrite. Pyrite content 5% Estimated grade 15% (Pb+Zn) Within pyritic intervals have minor pyrrhotite and magnetite locally. Minor sphalerite occ in xcutting fractures. Galena also remobilized into thin late fractures going down core axis. Core intact w/ excellent recovery.
	141016 2	141115 0 126 5		1218	15C171@	"ZEBRA ROCK" (4C3) 90:10 Mod. soft to mod hard, broadly CS2-foliated, pale grey & green striped, foliated chloritic phyllite. Consists of thin anastomosing, discontinuous chlorite laminae in a medium-fine xlline grey, slightly calcareous matrix. Grey intervals weather to a very light tan. S2 surfaces are mottled dark green and pale grey to tan. Contains two ½ foot thick bands of very pyritic, medium grey qtzite.

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Code	From	To	Recov.	No.	Unit	Description
	10 14	16 20	22 24	26 28	30 34	35
		141.50		1218		Pyrite disseminated throughout as fine grains. PS2 foliated. Pyrite content 35-40%. Estimated grade 2-3% (Pb+Zn). Marginal contacts sharp — apparently parallel S2. Core intact to slightly broken — recovery good.
	141.50	141.195		1219	141D141	
		127.9				Similar to Unit # 27 (396.2 - 406.2) Pale grey, very hard, generally PS2-foliated, noncalcareous, pyritic gtzite. S2 surfaces gtzite off-white w/ patchy fine silvery muscovite. Sphalerite w/ pyrite in thin compositional bands dominantly parallel S2. Locally microbuckshot texture w/ pyrite grains floating in sphalerite-rich matrix. Estimated pyrite content = 3-5%. Estimated grade = 11 % (Pb+Zn) Core mod. to very broken. Recovery appears OK
	141.195	141.216		1310	151C1417	"ZEBRA ROCK"
		130.0				Moderately soft to soft, noncalcareous, PS2-foliated to poorly CS2-foliated, muscovite-chlorite phyllite. Anastomosing dark green chlorite streaks in a medium grey muscovite-qtz matrix. S2 surfaces are silvery beige. Unit weathers to a very pale beige. Cut surface and S2 surface contains streaks/spots of bright blue-green "fuchsite" At TOI typical foliated SC texture // At EOI more typical of foliated SD texture.
						TOI - 421.0 Mod. broken w/ good recovery
						421 - 422 Mud gouge & rubble Recovery uncertain but assumed OK.
						422 - EOI Very broken & rubbly No gouge. 422-428 has only 2 feet core recovered. Significant fault?

DDH 89G-13
2 8

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Lithologic Log

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Code	From	To	Recov.	No.	Unit	Description
1	10 14	16 20	22 24	26 28	30 34	35
	141216 5	141314 5		1311	141A141	
		132 4				Very hard, noncalcareous, dark grey, pyritic qtzite. S2 surfaces are dark staining grey to black but only slightly mark fingers. Ribbon banded texture w/ pale grey qtz-sphalerite-pyrite bands in a fine dark grey qtzite matrix. PS2-foliated w/ dark grey qtzite bands being discontinuous along strike. Microbuckshot texture to S1 w/ pyrite grains floating in sphalerite matrix. Estimated pyrite content 5% Estimated grade 8-10% (Pb+Zn)
						TOI - 428 0.5 feet of rubble & reground pebbles
						428 - 429 No core
						429 - 433 Very broken w/ reasonable recovery
						433 - EOI Very broken to rubbly Recovery OK
	141314 5	141410 7		1312	141D1514	(SD46) MINOR
		134 3				Very hard, PS2-foliated, noncalcareous, medium grey to dark medium grey, slightly pyritic qtzite. S2 surfaces are generally steely grey and do not mark the fingers. Locally CS2-foliated w/ S1 microlithons defined by fine reddish sphalerite. Sulphides sphalerite w/ lesser pyrite, generally as compositional bands up to 1cm thick parallel S2. Locally develops a microbuckshot texture w/ fine pyrite grains floating in a reddish brown sphalerite matrix. Pyrite content 5-10% Estimated grade 12% (Pb+Zn). At 438 feet have a few thin bands of ton-weathering, soft, PS2-foliated, muscovite phyllite. Pyrite forms thin streaks parallel S2 and in xcutting late fractures. Total thickness of interval w/ SD4 bands is about 30cm.
						Core very broken to mod. broken Recovery OK

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2 8

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Code	From	To	Recov.	No.	Unit	Description
1	10 14	16 20	22 24	26 28	30 34	35
	4410 7	4517 0		33	4C5	
		139 3				Hard, noncalcareous, medium grey to medium dark grey, slightly pyritic qtzite. S2 surfaces range from silvery white (muscovitic) to steely grey (carbonaceous). Steely grey surfaces do not readily mark fingers. Both PS2-foliated and CS2-foliated. Pyrite disseminated in S2-parallel compositional bands up to 1cm thick. Only very minor fine reddish sphalerite noted. Pyrite content 5%. Estimated grade 1% (Pb+Zn) or less.
						TOI-445 very brken to mod. poker chippy Recovery OK
						445-EOI very brken and rubbly // 446-451 only 2 feet core recovered / 451-456 only 2 feet core recovered / 456-457 recovery OK.
	4517 0	4614 0		34	4L6 2	7 (4DO) 70:30
		141 4				Moderately soft, noncalcareous, PS2-foliated, medium grey phyllite. S2 surfaces are silvery grey w/ a faint greenish tinge. Not good 4L6 but definitely not 4LO and looks slightly altered. Contains thin qtzose siltstone bands which locally poorly define a CS2-foliation. Siltstone bands contain minor fine disseminated pyrite. Unit also has splotchy intergrown pyrite + pyrrhotite in irregular, xcutting aggregates. These are up to 1cm thick.
						Interval 460-462 consists of very hard, noncalcareous, pale grey qtzite. CS2-foliated w/ thin reddish sphalerite bands/laminae defining both S1 and S2 foliations. Locally disseminated pyrite present in small amounts. S2 surfaces are shiny, silvery grey. Estimated grade 6-8% (Pb+Zn). Pyrite content overall 1-5%. Marginal contacts gradational into altered phyllite.
						Core mod. brken w/ rubbly & poker chippy interval 460-462. Recovery OK.

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CURRAGH RESOURCES INC.

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Code	From	To	Recov.	No.	Unit	Description
1	10 14	16 20	22 24	26 28	30 34	35
	141614 0	141715 0 144 8		1315	151B1612	9 (5A619) 95:05 [3G09] Dominantly a soft, PS2-foliated, noncalcareous, medium grey phyllite. S2 surfaces are steely to shiny grey. Contains thin gtzose siltstone bands up to 1cm thick. Siltstone bands contain minor fine disseminated pyrite. Pyrite and/or pyrrhotite also occurs on irregular, diffuse compositional bands parallel S2 or cross-cutting bands/fractures. Lower contact marks last of these more concentrated, cross-cutting sulphide bands. Uppermost 1 foot consists of noncalcareous, moderately hard, PS2-foliated, dark grey, slightly pyritic phyllite. S2 surfaces are shiny dark grey and do not mark the fingers. Pyrite associated w/ veins qtz ribbons generally parallel S2. TOI-465 rubble - no gouge - recovery OK // 465-EOI slightly brken w/ good recovery.
	141715 0	141815 0 147 8		1316	151B161	± 8 I 9 both minor [360 ± 6 ± 8 both minor] Soft, PS2-foliated, noncalcareous, medium grey phyllite. S2 surfaces are shiny grey. Contains some intervals with a poorly developed CS2-foliation because of thin pale grey gtzose siltstone bands and laminae. Locally contains thin irregular network of pyrite streaks w/ dark green chlorite selvages. Overall thickness of chlorite-pyrite bands about 1cm. These bands are generally parallel S2. TOI-482 Moderately brken w/ minor local rubble and incipient gouge. Recovery good. // 482-EOI Very brken w/ more abundant local incipient gouges. Recovery OK Probably missing 0.5 feet of core.

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2 8

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Code	From	To	Recov.	No.	Unit	Description
1	10 14	16 20	22 24	26 28	30 34	35
	141815 0	141919.5 (152) Z		1317	151B16	± GOUGE (41O GOUGE) 85:15.
						Moderately soft, PS2-foliated, medium grey, noncalcareous phyllite. S2 surfaces are shiny grey and do not mark the fingers. Locally contains thin qtz siltstone bands defining (poorly) S1 microlithons. Near EOI in gouge have 2½-3 feet of silvery grey muscovite-quartz-pyrite phyllite. S2 surfaces are silvery muscovite cream.
						TOI-490.5 Very broken & poker chipped w/ gouge. Recovery OK 485-490 has about 0.5-1.0 foot core missing // 490.5-493.0 gouge and incipient gouge. — recovery OK // 493.0-495 very poker chipped w/ good recovery // 495-EOI mud gouge probably 1 foot core loss 495-500.5.
						Extensive mud gouge marks top of significant fault interval
	141919.5	151112.5 (156) Z		1318	141D15	GOUGE (5A*) 90:10
						Hard, CS2-foliated, medium-dark grey qtzite. S2 surfaces are shiny grey and poorly to moderately mark fingers. Sphalerite occurs on S1 and S2 pressure solution stripes about 1-2 mm thick. Interval almost totally gouge w/ some intervals about 1 foot thick of coherent, "normal" rock. Pyrite content 1-2%. Estimated grade 6-8% (Pb+Zn.)
						TOI-500.5 and 511-EOI consist of randomly oriented, commonly pyritic qtzite clasts in a fine, black gouge matrix. Coherent fault rock. Locally contains highly altered, tan 5D64 clasts as well. Shear fabric has orientations 15° wrt core axis. @ 499.5 ± 511 shear plane has orientation 30° wrt core axis. Continuations of fault described above in Unit #37 (485-499.5)
						TOI-500.5 coherent fault bxa w/ good recovery // 500.5-501.5 mud gouge w/ good recovery // 501.5-503.5 very broken w/ good recovery // 503.5-511 mud gouge — 503.5-505.5 has ½ foot core, 505.5-511 has 3' core // 511-EOI fault bxa w/ good recovery

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Code	From	To	Recov.	No.	Unit	Description
1	10 14	16 20	22 24	26 28	30 34	35
	151.12.5	151.16.0		1319	15C141$	(4DO) BXA 65:35
		157.3				Moderately soft, pale cream, dolomitic, muscovite-qtz phyllite. Contains bright blue-green "fuchsite" streaks. Has brecciated texture w/ slightly rotated phyllite clasts and shear banded texture/fabric.
						Contains intervals of pale grey, noncalcareous, very hard qtzite bxa. Diffuse pyrite, sphalerite, py-sphal bands parallel SZ locally where extensively brecciated the qtzite clasts have randomly oriented py-sphal bands. Fine dolomite fills late hairline cross cutting fractures.
						Core mod. broken w/ good recovery. Start of fault zone which started at about 485 feet. Possibly the fault duplicates the ore. Or perhaps this represents a very broken hinge zone. At TOT fault surface has slicks which are horizontal across core. Fault surface 50° wrt core axis. At 514 fault surface 40° wrt core axis.
	151.16.0	152.13.3		1410	14D 14H	±7±9±5 → (4A44) 70:30
		159.5				Hard, PSZ- to CSZ-foliated, noncalcareous, pale grey qtzite. SZ surfaces are silvery cream muscovite to shiny grey. Contains extensive sphalerite w/ lesser pyrite as compositional bands parallel SZ. Microbuckshot texture w/ fine pyrite floating in reddish sphalerite matrix. Locally microbxa texture w/ "clasts" of qtz in anastomosing network of sulphides. Sphalerite grey infilling late cross cutting fractures. Locally in very sphalerite-rich intervals have pyrrhotite associated w/ sphalerite. Near TOT relict ribbon banded texture present w/ thin carbonaceous folia defining flexed SZ. Estimated Pb+Zn = 15% combined. Pyrite content 15-20%. Core slightly broken w/ good recovery. Much more metal-rich than typical for this ore type.

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CURRAGH RESOURCES INC.

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Date: Aug 9/89 Logged By: KCP

Code	From	To	Recov.	No.	Unit	Description
1	10 14	16 20	22 24	26 28	30 34	35
	151213 3	151316 2 163 4		1411	141A141	±7±9 MINOR [4054] Hard, medium dark grey, CS2-foliated, ribbon-banded qtzite. S2 surfaces are shiny grey and only slightly marker fingers. Matrix consists of fine dark grey "cherty" qtzite. Within this background matrix have pale grey to off-white sulphide-qtz veinlets. Sphalerite-pyrite disseminated as anhedral grains in qtz. Some veins pyrite only. Locally veins are very sulphide rich forming diffuse zones up to 3 cm thick. Minor splashy cpy in xcutting late fractures. Minor pyrrhotite present as late fracture infillings near 525 feet. Qtz-sulphide veins generally parallel S1. Estimated grade 10% (Pb+Zn) Pyrite > sphalerite. Core intact w/ excellent recovery.
-	151316 2	151416 8 166 7		1412	141DIST	Similar to last Unit = 41 (523.3-536.2) only overall lighter grey w/ less distinct dark grey "cherty" matrix, lighter silvery grey S2 folia, pyrite content very much reduced. Dominantly fine reddish sphalerite as extremely fine laminae parallel S1 and thicker pressure solution stripes parallel S2. Pyrite content 1-5% Estimated grade 8% (Pb+Zn) Noncalcareous. TOI - 540.0 Slightly broken w/ good recovery // 540 - EOI Very broken to rubbly. Recovery good. Could be considered mod. poker chippy
	151416 8	151516 5 169 6		1413	141AW1	Very hard, noncalcareous, medium dark grey, ribbon-banded, pyritic qtzite. S2 surfaces streaky grey to dark shiny grey. Darker surfaces moderately marker fingers. Qtz-sulphide banding consists of py on sphalerite, or py-sphal. Py-sphal dominantly 1m-1cm pressure solen stripes parallel S2. Pyrite slightly less than sphalerite. Estimated grade 6-8% (Pb+Zn) Pyrite content 5-10%.

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Code	From	To	Recov.	No.	Unit	Description
1	10 14	16 20	22 24	26 28	30 34	35
		556 5		43		TOI - 553.5 Very brken, rubbly, poker chippy w/ OK recovery // 553.5 - EOI intact w/ excellent recovery.
	556 5	568 5 173 3		44	4D5	(5D4$) MINOR Medium dark grey, CS2-foliated, noncalcareous, qtzite. S2 surfaces are steely grey to shiny dark grey. Darker folia slightly to moderately mark the fingers. Interval does not have well developed ribbon-banding w/ dark cherty matrix and slightly coarser pale grey qtz-sulphide bands. Almost no pyrite present. Sphalerite as reddish brown streaks parallel S1 and thicker pressure soln stripes parallel S2. CS2-foliated. At 563 have several thin disrupted bands of pale tan-weathering, PS2-foliated, soft, dolomitic, muscovite-quartz phyllite. Estimated grade 5-6% (Pb+Zn). Pyrite content only 1-2%. TOI - 563 Very brken & rubbly - TOI - 559.5 recovery OK - 559.5 - 561.0 only 0.5 feet rubble - 561-563 recovery OK // 563 - 566.5 slightly brken w/ good recovery // 566.5 - 567.5 very brken to mod. poker chippy w/ OK recovery // 567.5 - EOI slightly brken w/ good recovery
	568 5	582 3 177 5		45	4A0	(4C5) 90:10 Dominantly very hard, noncalcareous, CS2-foliated, medium dark to dark grey, ribbon-banded qtzite. S2 surfaces are dull to shiny dark grey/black and moderately mark fingers. Well developed ribbon banding texture w/ pale grey to white qtz-pyrite veinlets in fine grained dark grey siliceous matrix. Pyrite grains reasonably coarse - subhedral. Pyrite content 5-10%. Grade 2-3% (Pb+Zn). Locally qtzite is medium grey - slightly bleached. S2 surfaces for these intervals are silvery grey. Ribbon banding is less marked / less strongly noted. TOI - 572.5 mod. brken w/ good recovery // 572.5 - EOI. Very brken & rubbly w/ good recovery.

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Date: Aug 9/89 Logged By: LCP

Code	From	To	Recov.	No.	Unit	Description
	151812 3	151818 7		1416	141D15T	(5D64) MINOR
		179 4				Dominantly a medium dark grey gtzite. Noncalcareous, CS2-foliated. S2 surfaces silvery grey to dark steely grey. Relict ribbon-banding visible only over appearance of being slightly bleached. Pyrite > sphalerite in thin compositional bands dominantly forming pressure solution stripes parallel S2. Pyrite content 10%. Estimated grade 5-6% (Pb+Zn).
						At 585.5 feet have 10 cm interval of tan-weathering, noncalcareous, PS2-foliated muscovite phyllite. Marginal contacts sharp parallel S1. Homogeneous massive 5D4. S2 surfaces silvery cream.
						Entire interval very broken and rubbly. At 583 have incipient 6 x 6 cm steep fracture - orientation 32/000 wrt S2. Recovery good except for 585.5-589 only 2.5 feet core.
	151818 7	151919 0		1417	13G1019	[5B62]
		182 6				Moderately soft, noncalcareous, PS2-foliated, medium dark grey phyllite. Fairly homogeneous. S2 surfaces are steely-grey. Contains minor irregular pyrite porphyroblasts. Pyrite also in recutting qtz-filled fractures.
						TOI-591 mod. broken w/ good recovery // 591-593 poker chippy and rubbly. recovery is good // 593-599. Slightly broken w/ good recovery. At 598.5 have 10 cm gouge and rubble. Overall a homogeneous, medium dark grey, nondescript, noncalcareous phyllite.
						EOH

DDH 89-6-13 (2 – 8)

Box #1 S_3 is present

CURRAGH RESOURCES INC.
Structural Log

Page 1 of 1

Date: July 14/89 Logged By: A. Reznik

Code (1)	From (10–14)	To (meters) (16–20)	Feature (22–24)	Sym (26)	S_0 Dip (28–32)	S_0 Direct. (28–32)	S_1 Dip (34–38)	S_1 Direct. (34–38)	S_2 Dip (40–44)	S_2 Direct (40–44)	Description
		76		Z			22	244	63		micaceous fltns & some comp banding present.
		146		Z			26	250	64		micaceous fltns & comp banding present.
		155		Z			28	215	61		micaceous fltns & comp banding present.
		271		Z			35	180	73		micaceous fltns & comp banding are present.
		296		Z?			42	223	69		micaceous fltns present.
		329		S			22	000	66		comp banding present.
		421		M			06	310	63		micaceous fltns present.
		469		M			11	240	71		micaceous fltns present
		518	PS2	–			T	T	70		micaceous fltns present.
		585	PS2	–			T	T	72		" " "
		633		Z			30	216	71		comp banding & micaceous fltns present.
		695		M			11	180	52		comp banding present.
		753		M			23	335	79		micaceous fltns define S_2. comp banding present.
		837		S			11	15	63		micaceous fltns & comp banding present.
		899	PS2	–			T	T	84		chlorite banding defines S_2 (comp banding present.)
		914	PS2	–			T	T	65		" " "
		1021	PS2	–			T	T	T		Fold Nose Present.
		1029	PS2	–			T	T	72		micaceous fltns & comp banding present. Chlorite banding [illegible] S_2
		1091	CS2	S			10	259	70		comp banding present. Sph banding defines S_2
		1161	CS2	S			50	000	65		comp banding & micaceous fltns present. Sph & Py banding define S_2.
		1184	PS2	–			T	T	66		comp banding of Sph + Py + Qtz define S_2
		1241	CS2	S			50	000	66		comp banding present. Micaceous chlorite bands define S_2.
		1277	PS2	–			T	T	78		comp banding of qtz, sph, Py & thin micaceous chlorite define S_2
		1408	CS2	S			28	121	67		comp banding of Sph & Py. S_2 defined by thin micaceous fltns.
		1465	PS2	–			T	T	59		micaceous fltns present & thin define S_2
		1509	PS2	–			T	T	53		thin micaceous fltns present & define S_2.
		1579	CS2	Z			75	000	68		Py & Sph banding define S_2
		1640	CS2	S			21	344	57		comp banding present. Sph & Py banding define S_2
		1690	CS2	Z			12	220	63		Sph & Py banding define S_2.
		1721	CS2	S			25	344	68		Sph banding defines S_2.
		1817	CS3	–			39	030	59		[illegible]
						EOH					
											[illegible]
											[illegible]
		146	CS3		25	000			64		crenulation cleavage
		1619	CS2	Z			85	000	57		ribbon banding / carbonaceous folia

DDH 89G-13 (2 of 8)

CURRAGH RESOURCES INC.
Structural Log

Page _____ of _____

Date: Aug 9/89 Logged By: LCP

Code	From	To	Feature	Sym	S_0 Dip Direct.	S_1 Dip Direct.	S_2 Dip Direct	Description
1	10 14	16 20	22 24	26	28 32	34 38	40 44	
		116104	1512					Fold Nose in 4A

DDH 89G-13 (2 8) CURRAGH RESOURCES INC. Page ____ of ____

Logged by hcp

ASSAY LOG (SAMPLER'S COPY) Date ____ Sampled by ____

CODE	FROM	TO	SAMPLE	INTR.	REC (m)	UNIT	DESCRIPTION
1	10 014	16 104 20	22 26	28 30	32 34	36 WASTE 40	42
	13412 4	13417 8 0	148131	146	1.4 146	141D141	
	13417 0	13505 2 0	148132	180	1.4 153	141D141	w/ 5D
	13550	13611 2 5	148133	165	1.3 142	141D1514	
	13611 5	13615 3 3	148134	138	1.3 138	41D1541	
	13615 3	13711 1 6	148135	157	1.5 150	41DC151	
	13711 0	13715 5 5	148136	145	1.1 136	41A1 1G0	UGE
→	13715 5	13719 5 7	148137	140	0.9 129	41A1 1G0	UGE
	13719 5	13814 0 0	148138	145	1.4 145	41AD141	
	13814 0	13816 2 2	148139	22	0.2 22	5C4161	
	13816 2	13819 7 7	148140	135	1.1 135	41D141	
	13819 7	13913 4 4	148141	137	1.1 137	41D141	
	13913 4	13917 2 8	148142	144	1.3 144	41D141	
	13917 8	14023 5 0	148143	142	1.3 142	41D141	
	14012 0	14016 2 6	148144	142	1.3 142	41D141	
	14016 2	14111 3 0	148145	148	1.5 148	5C171	w/ 4C3
	14111 0	14115 6 0	148146	140	1.2 140	5C171	
	14115 0	14119 9 5	148147	145	1.4 145	41D141	
	14119 5	14216 0 5	148148	170	1.3 142	5C1417	
	14216 5	14311 5 5	148149	150	1.1 135	41A141	
	14311 5	14314 4 5	148151	130	0.9 130	41A141	
	14314 5	14317 3 2	148152	127	0.9 127	41D5141	
	14317 2	14410 3 7	148153	135	1.1 135	41D5141	
	14410 7	14416 5 9 0	148154	153	1.6 153	41C151	
	14416 0	14517 9 3 0	148155	110	1.4 152	41C151	
	14517 0	14620 2 8 0	148156	150	1.5 148	41LD	
	14410 0	1662 2	— — —	—	—	WASTE	
✓	14919 5 2 2 5	15015 4 5	148157	160	1.6 159	41D151	GOUGE
✓	15015 5	15112 5 6 2 5	148158	170	1.4 146	41D151	GOUGE
✓	15112 5	15116 5 7. 3 0	148159	135	1.0 131	5C141	(4DO) 8XA
✓	15116 0	15119 5 8. 4 5	148160	138	1.3 138	41D1441	
✓	15119 8	15213 5 9. 5 3	148161	135	1.1 135	41D1441	
✓	15213 3	15218 6 8 0 1	148162	148	1.4 145	41A141	
✓	15218 1	15312 6 2 0	148163	137	1.2 139	41A141	
✓	15312 0	15316 6 3. 4 2	148164	142	1.3 142	41A141	
✓	15316 2	15411 6 4. 5 5	148165	153	1.4 146	41D151	
✓	15411 5	15416 6 6 8	148166	153	1.4 146	41D151	

DDH 89G-13 (2–8) CURRAGH RESOURCES INC.

Page _____ of _____

Logged by LCP

ASSAY LOG (SAMPLER'S COPY)

Date _____ Sampled by _____

CODE	FROM	TO	SAMPLE	INTR.	REC (m)	UNIT	DESCRIPTION
1	10–14	16–20	22–26	28–30	32–34	36–40	42
✓	5468	1682 / 5520	14867	52	1.5 / 48	4A4	
✓	5520	1696 / 5565	14868	45	1.4 / 45	4A4	
✓	5565	1710 / 5610	14869	45	1.4 / 45	4D5	
✓	5610	1723 / 5654	14870	44	1.2 / 41	4D5	
✓	5654	1733 / 5685	14871	31	0.9 / 31	4D5	
✓	5685	1750 / 5740	14872	55	1.6 / 53	4A0	
✓	5740	1763 / 5785	14873	45	1.4 / 45	4A0	
✓	5785	1775 / 5823	14874	38	1.2 / 38	4A0	
✓	5823	1794 / 5887	14875	64	1.8 / 60	4D5	
	1794	1826	—	—	—	WASTE	

PROJECT _____ DRILLHOLE NO. 89-G13 COORDINATES: N _____ DATE July 7 1989

LOCATION _____ HOLE SIZE _____ E _____ PAGE 1 of 5

LOGGER Reznik/Kerber INCLINATION _____ ELEVATION _____

PITEAU & ASSOCIATES
GEOTECHNICAL CONSULTANTS
VANCOUVER CALGARY

GEOTECHNICAL CORE LOG

DEPTH (TO)	LENGTH OF RUN	CORE RECOVERY		RQD		HARDNESS	DEGREE OF BREAKAGE		DEGREE OF WEATHERING	ROCK TYPE	BEDDING DIP		BEDDING JOINTS		CROSS JOINTS		(m) depth (to)	COMMENTS	(m) length of run
		LENGTH	length (m)	LENGTH	length (m)		CATEGORY	NO.			DEPTH	ANGLE	NO.	FREQ.	NO.	FREQ.			
16.5	3.5	2.4	.7	0	0		6		D						2		5.0		1.1
20	3.5	3.5	1.1	0	0		6		D						1		6.1		1.1
22	2	2.7	.8	0	0		6		D						0		6.7		.6
27	5	4.8	1.5	0.35	.2		7		D						0		8.2		1.5
29.5	2.5	2.5	.8	0	0		6		D						1		9.0		.8
32	3.5	3.1	.9	0	0		6		D						0		9.8		1.1
35.5	3.5	3.15	1.0	0	0		6		E						0		10.8		1.1
40.5	5	5	1.5	1.25	.4		6		E						2		12.3		1.5
43	2.5	2.5	.8	0	0		6		E						1		13.1		.8
48	5	4.6	1.4	1.2	.4		7		E						2		14.6		1.5
52	4	4	1.2	1.7	.5		8		E						1		15.8		1.2
57	5	5	1.5	0	0		6		F						0		17.4		1.5
61	4	2.5	.8	0	0		6		D						0		18.6		1.2
66	5	5	1.5	2.1	.6		8		F						3		20.1		1.5
70	4	4	1.2	0.4	.1		7		F						1		21.3		1.2
75	5	5	1.5	0.5	.2		6		E						5		22.9		1.5
80	5	5	1.5	0	0		6		D						2		24.4		1.5
83.5	3.5	3.5	1.1	0	0		6		E						3		25.4		1.1
87	MISLATCH																26.5		
92	5	5	1.5	1.2	.4		7		F						1		28.0		1.5
97	5	5	1.5	0.85	.3		7		E						2		29.6		1.5
102	5	5	1.5	0.35	.1		7		E						3		31.1		1.5
106	4	4	1.2	0	0		6		D						3		32.3		1.2
110.5	4.5	4.5	1.4	0	0		6		E						2		33.7		1.4
116	3.5	3.5	1.1	0.5	.2		6		D						2		35.4		1.1
118.5	2.5	2.4	.7	0	0		6		D						2		36.1		.8
123	4.5	4.5	1.4	0	0		6		E						1		37.5		1.4
126.5	3.5	2.6	.8	0	0		6		E						1		38.6		1.1

Fig. 1. Typical rock mechanics core log.

PROJECT _____ DRILLHOLE NO. 89-G13 COORDINATES: N _____ DATE July 17 1989

LOCATION _____ HOLE SIZE _____ E _____ PAGE 2 of 5

LOGGER ROZNIK/KERBER INCLINATION _____ ELEVATION _____

PITEAU & ASSOCIATES
GEOTECHNICAL CONSULTANTS
VANCOUVER CALGARY

GEOTECHNICAL CORE LOG

DEPTH (TO)	LENGTH OF RUN	CORE RECOVERY		ROD		HARDNESS	DEGREE OF BREAKAGE		DEGREE OF WEATHERING	ROCK TYPE	BEDDING DIP		BEDDING JOINTS		CROSS JOINTS		(m) depth (to)	COMMENTS	(m) length of run
		LENGTH	length (m)	LENGTH	length (m)		CATEGORY	NO.			DEPTH	ANGLE	NO.	FREQ.	NO.	FREQ.			
132	5.5	5.5	1.7	0	0		6		E						2		40.2		1.7
134.5	2.5	2.5	.8	0	0		6		E						2		41.		.8
140	5.5	5.2	1.6	0.5	.2		7		F						0		42.7		1.7
143	3	2.95	.9	0	0		6		E						0		43.6		.9
148.5	5.5	5.5	1.7	09	.3		6		E						2		45.3		1.7
153	4.5	4.5	1.4	0	0		7		F						0		46.6		1.4
158	5	5	1.5	1.5	.5		8		F						0		48.2		1.5
163	5	5	1.5	3.01	.9		11		E						0		49.7		1.5
169	6	5.3	1.6	0.75			6		F						0		51.5		1.8
172	3	3	.9	0	0		6		F						0		52.4		.9
177	5	5	1.5	0.35	.2		6		F						2		53.9		1.5
182	5	4.9	1.5	1.3	.4		8		F						1		55.5		1.5
187	5	5	1.5	1.3	.4		6		E						3		57.0		1.5
191	4	5.6	1.1	0	0		6		D						0		58.2		1.2
196	5	5	1.5	0	0		6		E						2		59.7		1.5
201	5	5	1.5	1.6	.5		7		F						0		61.3		1.5
206.6	5.6	5.2	1.6	1.8	.5		8		F						0		62.0		1.7
211.6	5	5	1.5	2.55	.8		9		F						0		64.5		1.5
217	5.4	5.3	1.6	3.2	1.0		11		F						2		66.1		1.6
222	5	1.9	.6	0.5	.2		7		E						2		67.7		1.5
227	5	5	1.5	1.85	.6		8		D						5		69.2		1.5
232	5	5	1.5	3.35	1.0		11		F						0		70.7		1.5
237	5	5	1.5	2.8	.9		9		E						2		72.2		1.5
240.6	3.6	2.6	.8	0.35	.1		6		D						2		73.3		1.1
244.6	4	4	1.2	0.8	.2		7		E						1		74.6		1.2
250	5.4	5.2	1.6	2.65	.8		8		F						0		76.2		1.6
255	5	1.5	1.5	1.95	.6		8		F						0		77.7		1.5
260	5	5	1.5	1.5	.5		7		F						0		79.2		1.5

Fig. 1. Typical rock mechanics core log.

PROJECT _____ DRILLHOLE NO. 89-613 COORDINATES: N _____ DATE July 17 19 89

LOCATION _____ HOLE SIZE _____ E _____ PAGE 3 of 5

LOGGER RCZNIK / KELBEL INCLINATION _____ ELEVATION _____

PITEAU & ASSOCIATES
GEOTECHNICAL CONSULTANTS
VANCOUVER CALGARY

GEOTECHNICAL CORE LOG

DEPTH (TO)	LENGTH OF RUN	CORE RECOVERY		RQD		HARDNESS	DEGREE OF BREAKAGE		DEGREE OF WEATHERING	ROCK TYPE	BEDDING DIP		BEDDING JOINTS		CROSS JOINTS		(m) depth (to)	COMMENTS	(m) length of run
		LENGTH	length (m)	LENGTH	length (m)		CATEGORY	NO.			DEPTH	ANGLE	NO.	FREQ.	NO.	FREQ.			
265	5	5	1.5	1.3	.4		7		F						2		80.8		1.5
270	5	5	1.5	0	0		6		F						0		82.3		1.5
275	5	5	1.5	0.6	.2		6		E						3		83.8		1.5
280	5	5	1.5	0	0		6		E						1		85.3		1.5
282.6	2.6	2.6	.8	0	0		6		D						0		86.1		.8
287	4.4	3.8	1.2	0.85	.3		8		E						0		87.5		1.2
292	5	4.4	1.3	0	0		6		E						2		89.0		1.5
297	5	4.5	1.4	0	0		6		D						3		90.5		1.5
302	5	5	1.5	0	0		6		F						1		92.0		1.5
305	3	2.1	.6	0	0		6		E						1		93		.9
310.6	5.6	5.5	1.7	0	0		6		E						5		94.7		1.7
315	4.4	3.3	1.0	0	0		6		E						1		96.0		1.0
318	3	3	.9	0	0		6		D						2		96.9		.9
322	4	2.2	.7	0	0		6		E						1		98.1		1.2
327	5	5	1.5	0.5	3.2		7		F						2		99.7		1.5
337	10	9.7	3.0	3.75	1.1		8		F						2		102.7		3.0
342	5	5	1.5	2.5	.8		11		F						1		104.2		1.5
347	5	5	1.5	0	0		7		F						8		105.8		1.5
349	2	2	.6	0.4	.1		7		F						1		106.4		.6
355	6	2.65	.8	0	0		6		E						6		108.2		1.8
359.5	5.5	2.2	.7	0	0		6		F						1		109.6		1.7
365	5.5	5.5	1.7	0.7	.2		7		D						5		111.3		1.7
368.5	3.5	2.3	.7	0	0		2		F						0		112.3		1.1
373.5	5	5	1.5	0	0		1		F						0		113.8		1.5
375.5	2	1.25	.4	0	0		1		F						0		114.5		.6
379	3.5	2.15	.7	0	0		1		F						0		115.5		1.1
380	1	1	.3	0	0		2		E						1		115.8		.3
385	5	5	1.5	0	0		7		F						6		117.3		1.5

Fig. 1. Typical rock mechanics core log.

PROJECT _____ DRILLHOLE NO. 87-613 COORDINATES: N _____ DATE July 17 1989

LOCATION _____ HOLE SIZE _____ E _____ PAGE 4 of 5

LOGGER Reznik/Kerber INCLINATION _____ ELEVATION _____

PITEAU & ASSOCIATES
GEOTECHNICAL CONSULTANTS
VANCOUVER CALGARY

GEOTECHNICAL CORE LOG

DEPTH (TO)	LENGTH OF RUN	CORE RECOVERY		RQD		HARDNESS	DEGREE OF BREAKAGE		DEGREE OF WEATHERING	ROCK TYPE	BEDDING DIP		BEDDING JOINTS		CROSS JOINTS		(m) depth (to)	COMMENTS	(cm) length of run
		LENGTH	length (cm)	LENGTH	length (cm)		CATEGORY	NO.			DEPTH	ANGLE	NO.	FREQ.	NO.	FREQ.			
390.5	5.5	5.5	1.7	2.15	.7		9		F						3		119		1.7
395.5	5	5	1.5	3.05	.9		12		F						5		120.5		1.5
400.5	5	5	1.5	4.15	1.3		12		F						2		122.1		1.5
402	1.5	1.5	.5	0	0		7		F						0		122.5		.5
407	5	5	1.5	3.2	1.0		12		F						0		124.1		1.5
412	5	5	1.5	3.45	1.1		12		F						1		125.6		1.5
417	5	5	1.5	1.1	.3		7		F						5		127.1		1.5
422	5	5	1.5	0	0		6		E						3		128.6		1.5
428	5	1.9	.6	0	0		5		D						0		130.5		1.5
429	NO	CORE															130.8		
433	4	4	1.2	0	0		6		D						5		132.0		1.2
438	5	5	1.5	0.4	.1		6		D						4		133.5		1.5
441	3	3	.9	0.75	.2		7		D						4		134.4		.9
446	5	5	1.5	0	0		6		D						5		135.9		1.5
451	5	2	.6	0	0		6		D						1		137.5		1.5
456	5	1.1	.6	0	0		6		D						2		139.0		1.5
457	1	1	.3	0	0		6		D						0		139.3		.3
462	5	4.95	1.5	0	0		6		E						4		140.8		1.5
465	3	3	.9	0.5	.2		6		E						3		141.7		.9
470.5	5.5	5.4	1.6	2.4	.7		8		F						1		143.4		1.7
476	6.5	5.5	1.7	1.1	.3		8		E						4		145.1		1.7
481.6	5.6	5.25	1.6	0.7	.2		7		F						2		146.8		1.7
485	3.4	3.4	1.0	0	0		6		D						2		147.8		1.0
490	5	5	1.5	0	0		6		D						2		149.4		1.5
495	5	5	1.5	0.85	.3		7		D						2		150.9		1.5
500.6	5.6	4.4	1.3	0	0		1		F						0		152.6		1.7
505.6	5	4.2	1.3	0	0		1		F						0		154.1		1.5
511	5.4	2.3	.7	0	0		1		E						0		155.8		1.6

Fig. 1. Typical rock mechanics core log.

PROJECT _____ DRILLHOLE NO. 87-613 COORDINATES: N _____ DATE July 17 1989

LOCATION _____ HOLE SIZE _____ E _____ PAGE 5 of 5

LOGGER Reznuc/Kerber INCLINATION _____ ELEVATION _____

PITEAU & ASSOCIATES
GEOTECHNICAL CONSULTANTS
VANCOUVER CALGARY

GEOTECHNICAL CORE LOG

DEPTH (TO)	LENGTH OF RUN	CORE RECOVERY		RQD		HARDNESS	DEGREE OF BREAKAGE		DEGREE OF WEATHERING	ROCK TYPE	BEDDING DIP		BEDDING JOINTS		CROSS JOINTS		depth (m)	COMMENTS	length of run (m)
		LENGTH	length (m)	LENGTH	length (m)		CATEGORY	NO.			DEPTH	ANGLE	NO.	FREQ.	NO.	FREQ.			
516	5	5	1.5	2.1	.6		9		D						2		157.3		1.5
521	5	5	1.5	1.6	.5		7		E						1		158.8		1.5
526	5	4.5	1.4	1.9	.6		8		F						0		160.3		1.5
531	5	5	1.5	2.1	.6		9		F						1		161.8		1.5
536	5	5	1.5	3.35	1.0		9		F						1		163.4		1.5
541.6	5.6	5.4	1.7	1.35	.4		8		F						5		165.1		1.7
546	4.4	3.8	1.2	0	0		6		E						2		166.4		1.3
550	4	4	1.2	0	0		6		F						1		167.6		1.2
553.6	3.6	3.3	1.0	0	0		6		D						0		168.7		1.1
558.6	5	5	1.5	1.3	.4		7		F						0		170.3		1.5
559.5	0.9	1.8	.5	0	0		6		E						1		170.5		.3
561	1.5	0.35	.1	0	0		4		E						0		171		.5
566.5	5.5	5.3	1.6	1.3	.4		7		E						3		172.7		1.7
571.5	5	5	1.5	0.55	.2		6		E						11		174.2		1.5
574	2.5	2.6	.8	0	0		6		D						3		175		.8
578.5	4.5	4.5	1.4	0	0		6		D						4		176.3		1.4
580.5	2	2	.6	0	0		5		D						1		176.9		.6
585.5	5	5	1.5	0	0		6		D						6		178.5		1.5
589	3.5	2.7	.8	0	0		1		D						1		179.5		1.1
594	5	5	1.5	1.15	.4		7		D						3		181.1		1.5
599	5	5	1.5	2.25	.7		8		F						0		182.6		1.5

Fig. 1. Typical rock mechanics core log.

89-G-14

CURRAGH RESOURCES INC.

Page 1 of ____

DIAMOND DRILL CORE LOG

Date: _____

Hole Number: 89G-14

Reference Fabric Orientation Diagram:

Project: 1989 Grum fill in

Location: Grum pit

Claim: _____

UTM ~~Terr.~~ Plane Co-ords.: 6905235.715 N 6,698.70N

592111.046 E 2,785.92E

Grid Co-ords: 84W /6N

Elevation: 1305.338

All symmetry determinations looking

Total Depth: 627 feet

_____ with _____ dipping

Inclination: -60° to NE

_____ with dip azimuth _____.

Purpose: _____

Reason hole Terminated: _____

Logged by: _____

Date(s) Logged: _____

Drilling Contractor: ARCTIC

Hole Cemented: No

Steel down Hole: yes 25 rods

Assay Lab: _____

Certificate No's: _____

CORE Size	From	To
NW	0	10
NQ	9	627

Collar Cased and Capped: No

Started: July 15/89 Completed: July 18/89

C.R.I. 1987 E - 1

CURRAGH RESOURCES INC.

Diamond Drill Core Log

DDH 89G-14

Date: _____ Logged By: _____

Code	Drillhole	Elevation	Northing	Easting	Units (feet/metres)	R.F.E.	
I	2 8	10 16	17 24	25 32	34 39	41 42	
T							

FEET

Code	Drillhole	Depth	Zenith Angle	True Azimuth	Comments
I	2 8	10 14	22 26	28 32	34 56
R	89G1-114	0 0	-61 01 • 0	014 2 • 0	AT COLLAR
R		310 19 0	-61 4 • 5	015 01 • 0	SPERRY SUN
R		415 19 0	-61 61 • 5	017 1 • 0	SPERRY SUN
R		610 19 0	-61 8 • 0	015 5 • 0	SPERRY SUN
R			•	•	
R			•	•	
R			•	•

DDH 89G-14 (2–8) FEET

CURRAGH RESOURCES INC.
Lithologic Log

Date: July 29/89 Logged By: LCP

Code	From	To	Recov.	No.	Unit	Description
1	10–14	16–20	22–24	26–28	30–34	35
	00	90		1	#	TRICONED – NO RECOVERY
		27				
	90	350		2	5B0	±7±2 (5D0) 95:05
		107				Soft, CS2-foliated, thinly banded, calcareous phyllite. Cut surfaces ranges from medium green through grey to dark grey. S2 surfaces are silvery grey, steely grey, or greenish grey. Banding on 1-2 cm scale or less is defined by white qtz-calcite siltstone bands. These typically form well developed microlithons bounded by grey micaceous pressure solution stripes parallel S2.
						Minor interbands of pale olive green, soft, homogeneous, calcareous, chlorite phyllite. S2 surfaces are medium green. Cut surface has slightly coarser "silty" texture. Contains thin white qtz-calcite veinlets/bands parallel S2. Marginal contacts are hidden in rubble. Longest interval just over 1 foot long.
						Some white bull qtz veins up to 15 cm thick. These also have white calcite.
						Unit very brken and poker chippy throughout. At least partly related to abundant thin qtz-calcite siltstone bands. Interval 9-14 has only 3' core // 14-19 only 3.5' core // rest of interval has good recovery
	350	585		3	5D0	
		178				Soft, calcareous, PS2-foliated, homogeneous, pale olive green chlorite phyllite. Cut surface has a slightly coarser "silty" texture. S2 surfaces are "silty" olive green. Contains numerous 2-3mm qtz-calcite veinlets parallel S2 foliation. Locally these veinlets define S2 minor folds. Upper and lower contacts hidden in brken core.
						TOI-36 very brken & rubbly w/ good recovery
						36-45 moderately brken w/ good recovery
						45-48 very brken w/ good recovery
						48-EOI moderately brken w/ good recovery

DDH 89G-14

FEET 2 8

CURRAGH RESOURCES INC.

Lithologic Log

Date: July 29/89 Logged By: LCP

Code	From	To	Recov.	No.	Unit	Description
1	10 14	16 20	22 24	26 28	30 34	35
	15185	11013 8		14	51B1071	
		131 6				Soft, calcareous, thinly banded, greenish grey to greenish phyllite. CS2-foliated w/ S1 microlithons defined by pale grey to white 1-2mm qtz-calcite siltstone bands. Typically the siltstone bands form 1-3cm bands parallel S2 which are bounded by micaceous pressure solution stripes. S2 surfaces are silvery greens to silvery grey green. Minor subhedral to euhedral pyrite porphyroblasts. Locally the CS2 foliation approaches a more pervasive PS2 foliation.
						Core mod. broken and poker chippy w/ good recovery. Minor incipient garnet balls @ 87.5', 99'.
	11013 8	11218 0		15	51B1$121	± 0 (50$ ± 0)(1000#B) 95:05: MINOR
		139 0				Soft, dolomitic and locally slightly calcareous, CS2-foliated, medium grey to dark grey, thinly banded phyllite. S2 surfaces are silvery grey to steely grey. Banding and S1 microlithons defined by white qtz-dolomite ± calcite intervals up to 2cm thick. Locally CS2-texture approaches PS2-texture. Locally 1-2mm euhedral dolomite rhombs are scattered through matrix.
						Contains 10-15cm interbands of homogeneous, pale olive green, PS2-foliated, dolomitic and locally calcareous, chloritic phyllite. S2 surfaces are silvery olive. Marginal contacts are sharp-parallel S1- and folded by S2. Also locally contains small, scattered, euhedral dolomite rhombs. Minor S2-parallel thin white qtz-carbonate veinlets.
						Minor pegmatitic white qtz-calcite veins crudely S2-foliaform. These locally have associated medium green chlorite. Longest interval 113.5-118.5
						TOI-114.0 moderately broken w/ good recovery
						114.0-116.0 very broken to rubbly. Only 1' core recovered
						116.0-119.5 very broken w/ good recovery
						119.5-EOI mod. broken, slightly poker chippy w/ good recovery

DDH 89G-14
2 8
FEET

CURRAGH RESOURCES INC.
Lithologic Log

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Date: July 29/89 Logged By: LCP

Code	From	To	Recov.	No.	Unit	Description
1	10 14	16 20	22 24	26 28	30 34	35
	1128 0	1155 0		6	5B7 3	(5D$ ± 0 ± 4 MINOR)
		472				Soft, thinly banded, CS2-foliated, very calcareous, pale green phyllite. S1 microlithons defined by thin white calcite-qtz siltstone bands. Also has slightly more coarsely xlline grey marble bands subparallel S1 up to 2 cm thick. S2 surfaces are silvery to silvery grey. Locally in lower part of interval the phyllite is medium to dark grey w/ steely grey S2 surfaces.
						Contains interbands of soft, PS2-foliated, olive green, chlorite phyllite. Commonly dolomitic and locally slightly to moderately calcareous. S2 surfaces are pale olive to silvery cream. Unit contains more muscovite than typical 5D — more micaceous S2 surface. Locally difficult to distinguish between 5B7 and 5D.
						Top 25/000 WRT S2
						TOI-129 mud gouge w/ good recovery
						129-137.5 very broken and poker chippy w/ good recovery
						Top parallel S2
						137.5-141 mud gouge w/ only 2' core recovered
						141-145.5 very rubbly, broken, poker chippy w/ only 2.5' core recovered
						Top 20/000 wrt S2
						145.5-150.0 mud gouge - 0.8' recovery
						150-152 no recovery
						152-155 very rubbly and poker chippy Much reground core in top 0.5 feet. Only 2.5' recovered.
	1155 0	1165 4		7	5B2$	±0 (5D6 ± $ ± 0) MINOR
		504				Soft to moderately hard, CS2-foliated, dark grey, thinly banded, dolomitic phyllite. Locally calcareous as well as dolomitic. S2 surfaces are shiny to dull grey and moderately mark fingers. Harder intervals contain much more abundant pale grey qtz-carbonate siltstone bands. Locally CS2-foliation approaches PS2.
						Contains thin interbands of olive green, soft, chlorite phyllite. Ranges from noncalcareous,

DDH 89G-14
2 8

CURRAGH RESOURCES INC.
Lithologic Log

Date: July 29/89 Logged By: LCP

Code	From	To	Recov.	No.	Unit	Description
1	10 14	16 20	22 24	26 28	30 34	35
	115.50	116.15 4		17		to dolomitic to calcareous. S2 surfaces are silvery green. Thickness ranges
		150 4				from 2cm to 40cm. locally slightly altered to tannish tint because of
						more abundant muscovite. Marginal contacts sharp parallel S1. Locally contains
						minor pyrite subhedral porphyroblasts.
						TOI-155 Very poor chippy and locally rubbly Recovery good
						155-EOI Moderately broken w/ good recovery
	116.15 4	117.12 2		18	5D0	(5B20) MINOR
		512 5				Soft, PS2-foliated, pale olive green, calcareous, chlorite phyllite. S2 surfaces are
						silvery green to medium olive green. Abundant S1 parallel thin stripes formed
						by qtz-calcite veinlets. Contains pegmatitic white bulk qtz-calcite veins which
						are crudely S2-foliaform. At 170.5 have 10cm band of dark grey,
						calcareous, thinly banded, soft phyllite. S2 surfaces are dark steely grey and
						slightly mark the fingers. Marginal contacts between units is sharp and parallel S1.
						Lower contact at EOI is small fracture w/ orientation 180/70 wrt S2.
						Core slightly broken w/ good recovery
	117.12 2	118.13 0		19	5B12 $1	± 0 (5D0) MINOR
		515 8				Soft, CS2-foliated, dark grey, dolomitic to slightly calcareous, thinly banded phyllite.
						S2 surfaces are steely grey and only slightly mark fingers. S1 microlithons defined
						by reasonably abundant pale grey qtz-carbonate siltstone bands ranging between
						1mm - 2cm in thickness. At 180.8' have 5cm interval of pale olive green,
						homogeneous, calcareous phyllite Marginal contacts are sharp parallel S1. Grey
						phyllite contains minor irregular pyrite porphyroblasts.
						Core moderately brken w/ good recovery.

DDH 89G-14
2 8

CURRAGH RESOURCES INC.
Lithologic Log

Date: July 29/89 Logged By: LCP

Code	From	To	Recov.	No.	Unit	Description
1	10 14	16 20	22 24	26 28	30 34	35
	11813 0	11815 9		110	5A1*	[5A BXA FAULT]
		1567				Soft, dark grey to black, slightly dolomitic, coherent phyllite fault rock
						Contains irregular qtz ± calcite vein clasts elongate parallel dominant foliation.
						Foliation surfaces are irregular shiny black and strongly mark fingers.
						Contains pale olive green, highly fractured 5D clasts up to 10cm across
						Two foliations observed. Dominant fltn w/ alignment of elongate qtz vein
						clasts and less well developed later clvge that cut and distorts this surface.
						Suggest shear bands. Upper and lower contacts hidden in pegmatitic white bull
						qtz vein. Core moderately broken w/ good recovery. 66° for major / 45° for
						later crenulations (shear band).
*	11912 0	12018 5		112	5D101	± $ ± BXA (5BO) V. MINOR
NB		1636				Soft, PS2-foliated to locally CS2-foliated, pale olive green, calcareous phyllite.
**						Thickly, diffusely banded parallel S2. Also contains thin white qtz-calcite
*						veinlets parallel S1 and/or S2. S2 surfaces are pale silvery green
place						At 195.5 have 10cm band of soft, CS2-foliated, pale grey, slightly calcareous
						phyllite. S2 surfaces are silvery.
						TOI-199.0 Slightly broken w/ good recovery
						199.0-200.5 Very rubbly w/ good recovery
						200.5-202.5 Mod. broken w/ good recovery
						202.5-204.0 Coherent fault bxa. Only 0.8' recovered. Fltn 25° wrt core axis.
						204.0-207.5 Moderately broken w/ good recovery
						207.5-EOI Very broken w/ gouge and bxa. 25° wrt core axis @ EOI
*	11815 9	11920		111	5B101$17	
		1585				Soft, medium grey, poorly CS2-foliated to PS2-foliated, dolomitic and calcareous,
						thinly banded phyllite. Banding defined by 1-2-10mm pale grey qtz-carbonate siltstone

C.R.L. 1987 F-7A

DDH 89G-14
2 8

CURRAGH RESOURCES INC.
Lithologic Log

Date: July 29/89 Logged By: LCP

Code	From	To	Recov.	No.	Unit	Description
1	10 14	16 20	22 24	26 28	30 34	35
						bands and laminae generally parallel S2. Rock has very striped appearance w/ thin micaceous stripes separating siltstones. S2 surfaces silvery grey to steely grey. Slight greenish tinge on cut surface — especially in siltstone bands (actinolite?) Core intact w/ good recovery. 15cm rubble at EOI
	2085	2103		13	GOUGE	
		641				Grey, greenish grey, and black mud gouge. Contains white vein qtz clasts. Upper contact w/ bxa in previous unit. Lower contact parallel S2 = 40° wrt core axis. Recovery OK.
	2103	2370		14	5B70	±3
		722				Soft, CS2-foliated, pale olive green to light greenish grey, thinly banded phyllite. S2 surfaces range from silvery grey to silvery green. Locally contains ovoid black chert nodules up to 1cm across. S1 microlithons defined by white qtz-calcite siltstone bands separated by S2 pressure solution stripes. Also contains coarser grey marble bands up to 2cm thick — these are parallel S2. May contain minor 5D metabasite — difficult to distinguish — would judge that most of this interval is metapelite. Core mod. brken w/ good recovery
	2370	2477		15	10Q#9	(5D$)(5B$2) 40: 35:25
		755				Coarse pegmatitic white qtz vein. Contains associated calcite, green chlorite, arsenopyrite, pyrrhotite. Contains randomly oriented, subhedral clasts of 5B, 5D. Near TOI have 4' interval of dominantly soft, calcareous, pale olive green, homogeneous chloritic phyllite. Fairly typical 5D. S2 surfaces are silvery olive green

DDH BGG-14 (2 / 8)

CURRAGH RESOURCES INC.
Lithologic Log

Date: July 29/89 Logged By: LCP

Code	From	To	Recov.	No.	Unit	Description
1	10 14	16 20	22 24	26 28	30 34	35
	121317 0	121417 7		115		Centred at 245.0' have 3.5' interval of poorly CS2-foliated, medium grey, dolomitic, soft, thinly banded phyllite. S2 surfaces are light steely grey and do not mark fingers. Poorly defined S1 microlithons are defined by thin pale grey qtz-dolomite laminae. These tend to be extensively disrupted by S2 pressure soln stripes.
		1755				TOI -238 reground pebbles – dominantly qtz vein material. recovery OK?
						238 - 240 slightly broken w/ OK recovery
						240 - 243 very rubbly w/ OK recovery
						243 - EOI mod. broken w/ OK recovery
	121417 7	121611 5		116	51B1$121	±7, B10 (5D$ ±0 B10) 65:35
		1797				Soft, thinly banded, medium grey, CS2-foliated, dolomitic phyllite. S2 surfaces are silvery to steely grey. Banding and microlithons defined by thin qtz-dolomite siltstone bands / laminae. Siltstones extensively disrupted by S2 pressure soln stripes. Contains disseminated biotite which is patchily developed. Cut surface commonly has brownish & greenish tinges)
						Contains interbands of homogeneous, pale olive to medium green, dolomitic to calcareous chloritic phyllite. S2 surfaces are silvery green. Contains minor biotite as thin gouged selvages around qtz-dolomite-calcite veinlets.
						Locally difficult to distinguish between the 2 lithologies in core. Metabasite (5D) bands are generally less than 30 cm thick.
						Core moderately broken w/ good recovery.
	121611 5	121615 5		117	51D1$1	±0
		1809				Soft, homogeneous, olive green, CS2-foliated, dolomitic chlorite phyllite. Lowermost 2' calc-arenous rather than dolomitic. Uppermost 1' has pale tan tinge probably

DDH 89G-14
2 8

CURRAGH RESOURCES INC.
Lithologic Log

Date: July 29/89 Logged By: LCP

Code	From	To	Recov.	No.	Unit	Description
1	10 14	16 20	22 24	26 28	30 34	35
						caused by slight alteration. Numerous thin grey to white qtz-carbonate veinlets subparallel S2. Core mod. brken w/ good recovery. S2 surfaces are pale silvery olive green
	265 5	281 5		18	5B02	± B10 ± 7 (5D0 ± B10) 95:05
		85 8				Soft, PS2-foliated to poorly CS2-foliated, calcareous, dark grey phyllite. S2 surfaces are steely grey. Contains scattered, patchely developed brown biotite. Locally adjacent to 5D has pale green colour due to bleaching out of carbon grey. In these areas S2 surfaces are silvery green. Siltstone bands are not present in any abundance. Qtz veins locally contain coarse euhedral arsenopyrite.
						Minor pale olive green, homogeneous, soft, calcareous, chloritic phyllite. S2 surfaces are silvery pale green. Minor white, thin qtz-calcite bands parallel S2.
						Core mod. brken w/ good recovery
	281 5	294 5		19	5B01	± $ (5D0) MINOR
		89 8				Soft, medium to dark grey, CS2-foliated, thinly banded phyllite. Calcareous to locally dolomitic. S1 microlithons defined by grey qtz-carbonate siltstone bands up to 3cm thick. S2 surfaces are silvery grey to steely grey. At 287.5 have a 2cm thick band of soft, olive green, PS2-foliated. Chloritic phyllite. Marginal contacts are sharp parallel S2.
						TOI - 293.5 moderately brken w/ OK recovery
						293.5 - EOI rubble and gouge Recovery OK No major fault

DDH BGG-14

CURRAGH RESOURCES INC.

Lithologic Log

Date: July 29/89 Logged By: KCP

Code	From	To	Recov.	No.	Unit	Description
1	10 14	16 20	22 24	26 28	30 34	35
	12914.5	13016.5		118	5B1$1	±0 (5B76)(5D$±0) 60:25:15
		934				Moderately soft, CS2-foliated, pale to medium grey, dolomitic, thinly banded phyllite. Unit locally calcareous. S2 surfaces silvery grey to steely grey. Contains isolated subhedral to euhedral pyrite porphyroblasts. S1 microlithons defined by pale grey qtz-carbonate bands up to 2cm thick.
						Contains interbands of soft, homogeneous, pale olive green dolomitic to calcareous, chloritic phyllite. S2 surfaces are pale silvery green. Contains coarse pegmatitic white qtz-dolomite ± calcite veins. Generally PS2 foliated although locally diffuse banding defines a PS1 fabric which is folded.
						Margins of 5D have a moderately soft, pale green, thinly banded, CS2-foliated noncalcareous rim. Typically has a well developed CS2 microlithon fabric. S2 surfaces are smooth silvery green. In one instance see a rounded black siliceous chert nodule within this unit (5B76). Marginal contacts w/ 5D are sharp when visible. Often difficult to distinguish between the above 2 green rock types.
						Core slightly broken to intact — recovery OK.
	13016.5	13212.5		119	5B12$1	±0 (5D0) MINOR
		983				Soft, CS2-foliated, dark grey, dolomitic, thinly banded phyllite. Locally calcareous. S2 surfaces are shiny dark grey to black and moderately mark fingers. Contains isolated euhedral pyrite porphyroblasts. S1 microlithons defined by thin grey qtz-carbonate siltstone bands/laminae. Near EOI have several 5cm-10cm thick pale olive green, PS2-foliated, calcareous, chloritic phyllite. Marginal contacts sharp parallel S1.
						TOI-314 mod broken w/ good recovery
						314-316 locally rubbly - generally mod broken. Recovery OK. Contains minor coherent fault rock w/ clasts of vein qtz & metabasite. Orientations bottom 50/000 wrt S2

DDH BG-14 (2 of 8)

CURRAGH RESOURCES INC.
Lithologic Log

Date: July 29/89 Logged By: LCP

Code	From	To	Recov.	No.	Unit	Description
1	10 14	16 20	22 24	26 28	30 34	35
						316 - 320.5 Slightly brken, recovery OK
						320.5 - EOI Very brken & locally rubbly
						No significant faults
	131212.5	131317.0		210	5B1012	
		1012.7				Medium to pale grey, CS2-foliated, thinly bedded, calcareous phyllite. S2 surfaces are steely grey and only slightly mask fingers. Well developed CS2 microlithons texture w/ up to 2cm thick grey siltstone bands defining the S1 microlithons. Extensive S2 pressure soln micaceous stripes between lithoned siltstone bands. Scattered subhedral to euhedral pyrite porphyroblasts. Core mod. brken - recovery excellent
	131317.0	131710.5		211	5B12$1	(SD4$) MINOR
		1112.9				Moderately soft, CS2-foliated, dolomitic, dark grey, thinly bedded phyllite. At TOI phyllite is medium grey; within 1st meter it gradually darkens to dark grey. S2 surfaces are steely grey but only slightly mask fingers. S1 microlithons defined by pale grey qtz-carbonate siltstone bands up to 2cm thick. At 351' have a 5cm thick band of sheared, pale tan, muscovite-dolomite-qtz-altered SD phyllite. Marginal contacts are sharp. Shearing parallel S2.
						TOI - 343.5 - mod. brken w/ OK recovery
						343.5 - 346.0 - mod. brken to rubbly w/ short incipient gouges - recovery OK
						346.0 - 348.5 - mod. brken / recovery OK
						348.5 - 349.5 - rubbly w/ incipient gouge / recovery OK 15/000 wrt S2
						349.5 - 355.0 - mod. brken w/ incipient gouge 352 - 353.5 / recovery OK
						355.0 - 362.0 - very brken & rubbly w/ incipient gouges / recovery OK 45/180 wrt S2 at TOI
						362 - 367 - mod brken / recovery OK // 367 - EOI very brken & rubbly w/ OK recovery

CRI 1987 F-7A

DDH 89G-14
2 8

CURRAGH RESOURCES INC.
Lithologic Log

Date: July 29/89 Logged By: LCP

Code	From	To	Recov.	No.	Unit	Description
1	10 14	16 20	22 24	26 28	30 34	35
	131705	131817		212	5181$	(5D4$) 85:15
		11180				Soft, pale to medium grey, dolomitic, CS2-foliated, thinly banded phyllite. S2 surfaces are silvery grey to light steely grey. S1 microlithons defined by micas and by pale grey qtz-dolomite siltstone bands up to 1cm thick.
						Contains interbands of soft, dolomitic, CS2-foliated, pale olive tan, chlorite-muscovite phyllite. S2 minor folds defined by qtz veins (?) Marginal contacts are sharp-parallel S1 - ie. folded by S2. Contains the odd speck/spot of bright green "fuchsite". Interbands are up to 40 cm thick.
						Also contains vuggy pegmatitic white qtz vein. Vuggy because of dissolved calcite/carbonate
						TOI-382.0 Mod. broken - recovery OK
						382 - 383.5 Mod. broken w/ rubbly intervals up to 10cm long. Recovery OK
						383.5 - EOI Mod. broken - recovery OK
	131817	141016		213	141444	[4D45]
		11240				Very hard, CS2-foliated, medium to dark grey ribbon-banded qtzite. Contains 1-5 cm thick white qtz veins w/ coarse subhedral to euhedral disseminated pyrite. Pyrite content ranges from 35% - 70%. Generally sphalerite & galena are not associated w/ these bands. Fine sphalerite + galena in thin qtz ribbons up to 1cm thick. These are "parallel" S1. Also contains sphalerite veinlets S2 pressure solution shapes. Matrix is fine-grained medium dark grey qtzite. S2 surfaces not well developed - generally qtzite dark grey w/ irregular patches of carbon. Sphalerite + galena 2% pyrite. Estimated grade 12% (Pb+Zn) Pyrite content about 15% - 20% Core intact to slightly broken - recovery good.

DDH BGG-14 (2 8)

CURRAGH RESOURCES INC.
Lithologic Log

Date: July 29/89 Logged By: ACP

Code	From	To	Recov.	No.	Unit	Description
1	10 14	16 20	22 24	26 28	30 34	35
	141016 8	141107		1214	4D141	@ MINOR (5D4 ?) MINOR
		141252				Very hard, mainly PS2-foliated, creamy white qtzite w/ bands of sphalerite and pyrite up to 1cm thick parallel S2. S2 surfaces white qtzite w/ irregular patchy silvery muscovite. Qtzite has subhedral disseminated white grains which fizz very slowly on acid (calcite ?) Sulphides bands are both paper thin and 1cm thick. Thin ones are S1 related into S2. Sphalerite > pyrite. Estimated pyrite 10% Estimated (Pb+Zn) = 12% At top of unit have 4cm band of soft, PS2-foliated, dolomitic muscovite-qtz phyllite. Contacts parallel S2. Is a highly altered 5D metabasite. Core moderately to very broken. Recovery is good
	141107	141907		1215	5D16±14	? (5C4 @) 60:40
		142177				Margins of unit consist of soft, noncalcareous, PS2-foliated chlorite-muscovite phyllite. Colour on cut surface ranges from pale green to beige-tan. S2 surfaces are silvery cream. Represents highly foliated metabasite. Approximate centre of unit is poorly CS2-foliated, medium green and grey striped, chlorite-carbonate phyllite. Coarser grained than 5D. Chlorite occurs as bands and patches in a grey carbonate-rich matrix. Chlorite parallel S1 and S2. Have darker chlorite streaks probably representing very sheared/flattened pyroxenes. Unit moderately soft. S2 surfaces are patchy medium chlorite green. Near End of lithology are minor bright green "fuchsite" spots. Core slightly broken w/ good recovery.

DDH 89G-14 (2 of 8)

CURRAGH RESOURCES INC.
Lithologic Log

Date: July 29/89 Logged By: LCP

Code	From	To	Recov.	No.	Unit	Description
	141190	141212 5		216	5B6141	(10Q9) 60:40
		1/2188				Soft, poorly CS2-foliated, silvery grey phyllite. Noncalcareous. Cut surface has faint greenish tinge. S2 surfaces silvery cream. CS2-fabric preserved as thin ptygmatic siltstone bands. Now a muscovite-quartz phyllite. Contains pegmatitic white qtz w/ associated minor patchy dark reddish brown sphalerite. Qtz vein has irregular pieces "(fragments") of phyllite within it. Core mod. broken w/ good recovery
	141212 5	141410 0		217	5B6±12	(5D46) MINOR
		1/1340				Dominantly a moderately soft, CS2-foliated, thinly banded, noncalcareous, medium grey phyllite. S2 surfaces are silvery grey. Locally phyllite darken grey with sterky grey to dark shiny grey S2 surfaces. S1 microlithons preserved by thin pale grey ptygmatic siltstone bands and laminae.
						Near 4270' have 20cm band of pale grey tone, noncalcareous, PS2-foliated, soft, muscovite-quartz phyllite. S2 surfaces are silvery cream. Represents a highly altered 5D phyllite. Marginal contacts are hidden in rubble.
						TOI - 430 Very broken & poker chippy w/ gouges developed. Gouging looks parallel S2.
						430 - EOI Moderately poker chippy w/ some incipient gouges. Again gouges parallel S2.
	141410 0	141413 5		218	5A1*	FAULT (5D46) MINOR
		1/352				Dark grey to black, moderately soft, noncalcareous phyllite. Numerous elongate clasts of white vein qtz and pale beige, noncalcareous, PS2-foliated altered 5D phyllite. Dominant fabric irregular, subparallel S2 and cut by later shear bands. Shear bands 50/000 wrt S2. Probably not a major fault. Core mod. to

DDH B.9.G.-1.4. (2 / 8)

CURRAGH RESOURCES INC.
Lithologic Log

Date: July 29/89 Logged By: LCP

Code	From	To	Recov.	No.	Unit	Description
1	10 14	16 20	22 24	26 28	30 34	35
						very broken w/ good recovery. Lower contact looks parallel S2
	141413 5	141417 0		129	5C4@	"Zebra Rock"
		1/136 2				Moderately soft, PS2-foliated, green to greenish grey, slightly calcareous phyllite. Chlorite forms irregular lenses and streaks within medium xlline grey matrix. S2 surfaces grey w/ patchy dark green. Locally have spots of bright green "fuchsite". Represents an altered and sheared 5C metabasik. Core slightly broken w/ good recovery.
	141417 0	141614 5		130	4A4	(5C4@1) BXA + FAULT
		1/141/6				Dominant unit is a very hard, medium dark grey, noncalcareous, qtzite. Contains abundant whit to tan qtz-dolomite late veins. Dominant fabric is irregular, steep, carbonaceous folia forming shear bands. S1 surfaces are disrupted and displaced along these surfaces locally have dark grey bxa zones w/ abundant fine light vein qtz angular clasts in an aphanitic dark grey matrix. Shear band orientation 40/000 wrt S2 at TOI
						Contains interbands of moderately hard, PS2-foliated, grey phyllite w/ streaks of dark green chlorite and bright green "fuchsite". S2 surfaces also bright green and dark green spotted. Unit only very slightly calcareous in 20% HCl. Marginal contacts sharp and typically offset along shear bands. Shear bands spaced through phyllite. Interbands range in thickness from 2cm - 75cm.
						Fine-grained, reddish brown sphalerite along S1 and S2 surfaces. Also remobilized into late fractures and shear bands. Estimated grade 6% Pb+Zn. Pyrite very sparse - only about 2-3%.
						Core moderately broken. Recovery OK. Possibly a significant fault.

DDH 89G-14

CURRAGH RESOURCES INC.

Lithologic Log

Date: July 30/89 Logged By: LCP

Code	From	To	Recov.	No.	Unit	Description
	14614.5	14710.5		1311	4D101	(5C4$) 90:10
		14734				Major unit is very hard, noncalcareous, light grey to white qtzite. S2 surfaces qtzite white w/ thin skim of silvery muscovite. Fine reddish brown sphalerite in thin laminae parallel S1 S2 not well developed. Sphalerite 2X to 3X pyrite. Estimated grade 9% (Pb+Zn).
						20 cm interval near EOI is pale grey to beige, PS2-foliated, chloritic phyllite. Generally grey w/ dark green chlorite and bright green "fuchsite" streaks parallel S2. Unit reacts moderately to 20% HCl.
						TOI - 466 core very broken & rubbly Recovery OK
						466 - EOI Core mod. broken. Only 2' recovery. Probably lost at 466 and 470
	14710.5	14819.0		1312	41A101	±4 [4D5]
		14790				Hard, noncalcareous, CS2-foliated, carbonaceous qtzite. Matrix is fine-grained, dark grey qtzite w/ locally developed thin S1 surfaces. S2 marked by spaced, slightly irregular carbonaceous folia which slightly mark fingers. Pyrite w/ lesser sphalerite forms diffuse bands generally subparallel S2. Sphalerite also concentrated w/ carbonate in the pressure solution streaks parallel S2. Pyrite content 15-20%. Estimated (Pb+Zn) content 4-6%.
						TOI - 479.5 Very broken & rubbly 470.5-474.5 only 2.5' core recovered. Otherwise recovery OK
						479.5 - 485.2 Intact w/ good recovery
						485.2 - EOI. Mod. to very broken w/ good recovery.
						Probably no major faults

DDH 89G-14
2 8

CURRAGH RESOURCES INC.
Lithologic Log

Date: July 30/89 Logged By: LCP

Code	From	To	Recov.	No.	Unit	Description
	10 14	16 20	22 24	26 28	30 34	35
	14819 0	15010 0		313	41D14141	(4G$ ± 4)(4E8 ± 4)(4S443$) 40:40:20: TRACE
		15124				Top 0.7 feet consists of fine-grained sphalerite + pyrite w/ dolomite in matrix. Ductile flow textures w/ clasts of qtz + carbonate up to 1cm across. At upper contact strike of last unit is brecciated. Lower contact crudely parallel S2. Estimated grade 20% (Pb+Zn) locally microbuckshot texture w/ pyrite in "eye" of sphalerite.
						Go down DDH into extremely sphalerite-rich pale grey strk. Wet core has dark red surface from fine sphalerite. Contains scattered carbonate (?) veins ten cubes which do not react to acid but weather recessively. Microbrx texture w qtz grains have sphalerite around them in matrix. Again locally microbuckshot w/ pyrite disseminated in sphalerite. Estimated grade 25% (Pb+Zn) Pyrite only 5%
						Go down DDH into pale grey, poorly banded, slightly pyritic, dolomitic, barite, pleo sulphidaux. Many rounded sphalerite Dolomite disseminated in matrix Contains clasts of carbonate (?) Estimated grade 9-12% (Pb+Zn) Pyrite 40%.
						locally have bands of fine-grained, brassy yellow, barren pyrite with small magnetite streaks.
						Very mixed unit. Not typical ore type for Isabel area. Overall grade will be very high. (15-20%)(Pb+Zn)
						Core mod. broken w/ good recovery
	15010 0	15317 0		314	41D14817	
		16137				Very hard, noncalcareous, medium grey to off-white, slightly pyritic strk. Sphalerite in thin microlithons defining S1. Also sphalerite w/ pyrite and minor magnetite in compositional bands up to 1cm thick parallel S2. Thicker bands often have micro buckshot texture w/ subhedral pyrite in sphalerite-galena matrix. Minor splashy cpy in late cutting fractures. Estimated grade 15% Pb+Zn Sphalerite 3X pyrite S2 surfaces have patchy muscovite. Mod broken - recovery OK

DDH 89G-14 (2 / 8)

CURRAGH RESOURCES INC.
Lithologic Log

Date: July 30/89 Logged By: LCC

Code	From	To	Recov.	No.	Unit	Description
1	10 14	16 20	22 24	26 28	30 34	35
	151317 0	151414 5		1315	4 A 10 1	(4E1) (4D4)(5D4?) 35:35:20:10
		1/1616 0				Upper 2/3 of unit is hard, dark grey, noncalcareous qtzite interbanded w/ brassy yellow, fine-grained, siliceous pyrite. Banding is on a scale of 2' or so. S2 folia in qtzite are sooty black and strongly mark fingers. Estimated grade 3-4% (Pb+Zn). Pyrite content 5% or less. No abundant pale qtzose ribbon banding. Pyrite interbeds have scattered qtz clasts elongate along S2. Locally very broken up along late fractures.
						Lower 1/3 of unit is slightly pyritic, off-white qtzite containing thin soft, PS2-foliated, slightly dolomitic, beige altered 5D bands. Sphalerite ≥ pyrite. Total S= = 60% Estimated grade 20% (Pb+Zn) Upper contact of this 4D part is thin bxa zone against barren pyrite band S2 of the inc clasts in bxa is randomly oriented.
						TOI-542 Very broken & rubbly along steep fractures. Incipient bxa
						542-EOT Mod. broken to intact.
						Recovery good for entire interval.
	151414 5	151617 0		1316	4 A 10 1 ± 14	
		1/1728				Very hard, fine-grained, medium grey, noncalcareous qtzite S2 marked by sparse carbonaceous folia – pressure soln striping S2 surfaces sooty black to shiny black and marks fingers. Contains pale grey qtz-pyrite ± sphalerite ribbon veins up to 3cm thick. Pyrite coarsely disseminated in qtz. These veinlets are subparallel S1 and locally transposed into S2. Locally sphalerite also forms thin laminae parallel S1. Pyrite content 10 -% Estimated grade 4-6% (Pb+Zn)
						Near 557' micro bxa along fractures w/ dolomite infilling fractures – fractures parallel core axis.
						TOI-554 mod broken w/ local rubbly zones. Recovery OK

DDH 89G-14

CURRAGH RESOURCES INC.

Lithologic Log

Date: July 30/89 Logged By: LCP

Code	From	To	Recov.	No.	Unit	Description
1	10 14	16 20	22 24	26 28	30 34	35
						554 - 557 Very broken to rubbly along steep fractures. Recovery OK.
						557 - 560 Slightly broken - recovery OK
						560 - 561 Rubbly & very broken recovery OK
						561 - 565.5 Mod broken / recovery OK
						565.5 - EOI Very broken w/ incipient gouge ball @ EOI
	15617 0	15812 7		13 17	14 A 01	(4D5) MINOR
		17176				Medium dark grey, noncalcareous, slightly pyritic, qtzite. S2 surfaces dark grey to black and moderately wavy fingers. Contains spaced pale grey qtz vein/ribbons w/ disseminated pyrite. These parallel S1 and are up to 2 cm thick locally qtz-py bands also contain fine sphalerite. S2 forms a spaced pressure soln cleavage. Minor fractures along core axis w/ thin dolomite infillings locally.
						Locally unit less carbonaceous (4D5) these intervals also contain slightly more sphalerite.
						Pyrite content 5-10%. Estimated grade 3% (Pb+Zn)
						EOI - 570 Slightly to mod. broken w/ good recovery
						570 - 572 Very broken & rubbly on steep fractures Recovery OK
						572 - 574 Mod. broken / recovery OK
						574 - 577 Mod to very broken / recovery OK
						577 - 581.5 Slightly broken - recovery OK
						581.5 - 582 Gouge 40/000 wrt S2 upper contact Lower cnt. parallel S2.
						582 - EOI intact.

DDH 89G-14
2 8

CURRAGH RESOURCES INC.
Lithologic Log

Date: July 30/89 Logged By: LCP

Code	From	To	Recov.	No.	Unit	Description
1	10 14	16 20	22 24	26 28	30 34	35
	151812 7	151815 0		1318	151816 1	GOUGE (1090) 60:40
		117833				Dark grey, PS2-foliated, micaceous, moderately soft, noncalcareous phyllite. S2 surfaces look shiny grey and slightly mark fingers. Entire interval gouged Qtz veins are more competent & are preserved Bottom 10cm is gouge bxa w/ clasts of pyritic 4A Upper contact 000/10 wrt S2 Lower contact looks parallel S2.
	151815 0	151910 7		1319	41A141	± 3
		118000				Dark grey, hard, noncalcareous, pyritic qtzite. S2 surfaces shiny to sooty black and moderately mark fingers. Fine pyrite in compositional bands up to 5cm thick parallel S1. Locally has fine sphalerite in thin pale grey qtz veinlets parallel S1. Overall grade 6% (Pb+Zn) Pyrite content 30% Locally qtz veins are slightly brecciated and rotated. Core slightly broken - recovery good
	151910 7	151918 5		1410	41A1314 1	(5D46)(4D34)(5B6 ± 2)
		118244				Heterogeneous unit centred around short intervals of highly altered metabasite. PS2-foliated, noncalcareous, pale tans, soft phyllite. Contains minor scattered bright green "fuchsite" shreds. Interbedded w/ metabasite is sulphide-rich, pale grey 4D qtzite. S2 surfaces are silvery sheens. Away from metabasite 4D gradually darkens to carbonaceous, pyritic, ribbon-banded qtzite. Locally also have dark grey, soft, noncalcareous phyllite. Estimated grade overall 7%(Pb+Zn) mainly in 4A and 4D Pyrite content 20% Bottom contact is bxa against gouge. Fault orientation 40/000 wrt S2. Core mod. broken w/ OK recovery Interval 596-597' is barren pyrite similar to that noted @ 540 feet

DDH 89G-14
2 8

CURRAGH RESOURCES INC.
Lithologic Log

Date: July 30/89 Logged By: LCP

Code	From	To	Recov.	No.	Unit	Description
1	10 14	16 20	22 24	26 28	30 34	35
	5918 5	6040		41	GOUGE	
		1841				Grey mud gouge. Most clasts and fragments are qtz vein, metabasite, dark grey qtzite. Upper contact 40/000 wrt SZ. Lower contact apparently parallel SZ. Probably not a major fault. Recovery OK
	6040	6070		42	5B6219	
		1850				Dark grey, noncalcareous, CSZ-foliated, thinly banded phyllite. SZ surfaces are shiny black but do not mark fingers. Contains thin pale grey qtz-pyrite ± sphalerite veinlets. Texturally similar to 4A only not as hard - can be scratched (but not easily) with a nail. Estimated Pb+Zn = 1-2% Gradually fades into the next unit. Core mod. brken - recovery OK
	6070	6120		43	4L1124	(5D4$) 70:30 [4D0 PHYLLITIC]
		1865				Interval 610.5'-611.5' is moderately soft, PSZ-foliated, slightly dolomitic, pale tan beige muscovite-qtz phyllite. Highly altered 5D. Contains SZ-parallel qtz veins. Rest of interval is moderately hard, CSZ-foliated, muscovite-qtz phyllite. Consists of qtzose bands w/ muscovite-rich pressure soln stripes. Fine dark red sphalerite + minor fine pyrite in thin laminae w/in qtzose bands. These outline SI microlithons. Sphalerite slightly > pyrite. Estimated grade 4-6% (Pb+Zn). Sulphide content decreases as go down DDH. Core slightly brken / recovery OK
	6120	6235		44	5B6	4 WEAK
		1900				Moderately soft, poorly CSZ-foliated, pale silvery grey to grey, noncalcareous phyllite. SZ surfaces are silvery to light steely grey. Upper part of interval more muscovite rich. Minor disseminated pyrite in thin streaks parallel SI. Contains crudely foliaform SZ qtz veins. Core slightly to mod. brken / Recovery OK.

DDH 89G-14

CURRAGH RESOURCES INC.
Lithologic Log

Date: July 30/89 Logged By: LCP

Code	From	To	Recov.	No.	Unit	Description
1	10 14	16 20	22 24	26 28	30 34	35
	6213 5	6217 0		45	5D4$	(4C 3:5)(5C4 $) 45:40:15
		1911				Dominant unit is PS2-foliated, soft, beige to pale olive, muscovite-qtz-dolomite ± chlorite phyllite. Slightly dolomitic. S2 surfaces are silvery beige. At EOI has transition to strongly stuped grey and dark green chloritic phyllite. - the change is therefore to Zebra Rock. Also slightly dolomitic. Striping parallel S2.
						Interbanded w/ hard, noncalcareous, off-white qtzite. Contains diffuse bands of fine-grained, brassy yellow pyrite parallel S2. These are 0.5 cm to 1.0 cm thick. Locally slightly carbonaceous and approaches a 4A appearance. Locally contains minor grade. Total grade 2% Pb+Zn. Pyrite content 35%.
						Core intact w/ good recovery
						EOH

DDH 89-6-14 (2 – 8)

CURRAGH RESOURCES INC.
Structural Log

Date: July 24/89 Logged By: A. Reznik

Code (1)	From (10–14)	To (meters) (16–20)	Feature (22–24)	Sym (26)	S_0 Dip (28–32)	S_0 Direct.	S_1 Dip (34–38)	S_1 Direct.	S_2 Dip (40–44)	S_2 Direct	Description
		17 3	CS2	Z			24	180	56		micaceous foliations define S_2. Some compostnl banding pres
		11 6									Fold Nose Present.
		12 3	PS2	–			T	T	56		compositional banding defines S_2 (qtz) + micaceous fltn
		19 1	CS3	S			21	000	59		[illegible]
		22 6	CS2	S			33	042	58		" " "
		25 0	PS2	–			T	T	60		" " "
		25 8	CS2	M			22	250	64		" " "
		31 2									Fold Nose Present.
		33 5	CS2	S			32	000	57		micaceous fltns & comp. banding S_2 defined by tiny micaceous fl
		40 2	CS2	Z			36	190	54		[illegible]
		49 1	CS3	S			43	000	65		micaceous fltns present.
		51 2									Fold Nose Present.
		53 5	CS2	S			41	333	67		micaceous fltns present.
		58 8	PS2	–			T	T	58		tiny micaceous fltns define S_2 comp. banding present.
		67 7	CS2	M			18	005	52		" " "
		69 3	CS2	Z			39	005	53		thin chlorite bands define S_2 comp. banding present.
		77 6	PS2	–			T	T	61		micaceous fltns defining S_2 present.
		83 4	CS2	M			10	005	57		" " "
	Rose 15	S_3? 86 6	CS3		CS3 10	0010	PS1 00	340	CS2 48		
		95 7	CS2	S			25	345	70		micaceous foliatns & comp. banding present.
		101 2	CS2	Z			42	202	46		micaceous fltns present.
		107 0	PS2	–			T	T	42		comp banding present.
		110 8	CS2	S			29	353	79		micaceous fltns present.
		118 9	PS2	–			T	T	72		S_2 defined by Sph bands. comp banding present.
		121 8	CS2	Z			90	0010	55		S_2 defined by Sph = Py & Qtz banding (comp. banding present.)
		127 1	PS2	–			T	T	57		S_2 defined by micaceous fltns. comp banding present.
		132 6	PS2	–			T	T	55		S_2 defined by micaceous fltns.
		136 7	CS2	S			21	352	63		comp banding & micaceous fltns. S_2 defined by Sph banding & mic. fltns
		147 1	PS2	–			T	T	77		comp banding present. S_2 defined by Sph & Py banding
		151 5									Fold Nose Present.
		153 3	PS2	–			T	T	61		S_2 defined by Sph & Py banding
		163 7	PS2	–			T	T	60		S_2 defined [illegible] fractures
											which occur at 90° to S_2
											cleavage.
		168 7	CS2	Z			77	180	70		micaceous fltns & comp banding present. S_2 defined by Py banding
		171 6	CS2	M			05	000	57		micaceous fltns & comp. banding present.

also parallel near band

DDH 89-6-14 (2 8)

CURRAGH RESOURCES INC.
Structural Log

Date: July 24 89 Logged By: A. Reznik

Code (1)	From (10–14)	To (meters) (16–20)	Feature (22–24)	Sym (26)	S_0 Dip (28–32)	S_0 Direct.	S_1 Dip (34–38)	S_1 Direct.	S_2 Dip (40–44)	S_2 Direct	Description
		1768	CS2	-			42	0010	53		S_2 defnd by Py banding comp banding, mic. fltns present
		1850	AS2	-			T	T	67		S_2 defnd by Py & Sph banding
		1892	PS2	-			T	TT	71		S_2 defined by thin micaceous fltns.
						EOH					
		2150	CS3		42	0010			60		crenulation edge

DDH 896-14 (2 8) CURRAGH RESOURCES INC.

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Logged by LCP

ASSAY LOG (SAMPLER'S COPY)

Date _____ Sampled by _____

CODE	FROM	TO	SAMPLE	INTR.	REC (m)	UNIT	DESCRIPTION
1	10 0 14	16 48.0 20	22 — 0 — 26	28 — 30	32 — 34	36 WASTE 40	42
✓	1180 0	1191 47	41954	47	1.4 47	4A44	
✓	1191 7	1217 13	41955	56	1.7 56	4A44	
✓	1197 3	1222 50	41956	47	1.4 47	4A44	
✓	1402 0	1240 8	41957	48	1.5 48	4A44	
✓	1406 8	1250 27	41958	39	1.2 39	4D4	
✓	1410 7	1269 5	41959	58	1.2 40	5C4	
✓	1416 5	1279 70	41960	25	0.8 25	5D6	
✓	1419 0	1288 5	41961	35	1.1 35	10Q9	
	1288	136.2	—	—	—	WASTE	
✓	1362 4470	1376 6	41962	46	1.4 46	4A4	
✓	4516	1390 0	41963	44	1.3 44	4A4	
✓	4560	1402 0	41964	40	1.1 36	4A4	
✓	4600	1416 5	41965	45	1.4 45	4A4	
✓	4645	1435 5	41966	60	1.7 55	4D0	
✓	4705	1452 5	41967	60	1.3 42	4A0	
✓	4765	1465 7	41968	42	1.3 42	4A0	
✓	4807	1479 4	41969	47	1.4 47	4A0	
✓	4854	1490 0	41970	36	1.1 36	4A0	
✓	4890	1507 5	41971	55	1.7 55	4DG	
✓	4945	1520 0	41972	55	1.7 55	4DG	
✓	5000	1538 6	41973	46	1.4 46	4D4	
✓	5046	1551 0	41974	44	1.3 44	4D4	
	5090	1566 8	41975	48	1.5 48	4D4	
	5138	1579 9	41976	41	1.2 41	4D4	
	5179	1590 0	41977	41	1.2 41	4D4	
	5220	1609 0	41978	60	1.6 53	4D4	
	5280	1624 7	41979	47	1.4 47	4D4	
	5327	1637 0	41980	43	1.3 43	4D4	
	5370	1647 5	41981	35	1.1 35	4A3	
	5405	1660 5	41982	40	1.2 40	4DAE	
	5445	1674 3	41983	48	1.5 48	4A4	
	5493	1682 5	41984	42	1.3 42	4A4	
	5535	1702 3	41985	48	1.5 48	4A4	
	5583	1713 0	41986	37	1.1 37	4A4	
	5620	1728 0	41987	50	1.5 49	4A4	
	5670	1740 0	41988	40	1.2 40	4A0	

DDH 89G-14 (2–8) CURRAGH RESOURCES INC.

Page 2 of 2

Logged by LCP

ASSAY LOG (SAMPLER'S COPY)

Date _____ Sampled by _____

CODE	FROM (10–14)	TO (16–20)	SAMPLE (22–26)	INTR. (28–30)	REC (m) (32–34)	UNIT (36–40)	DESCRIPTION (42)
	1571 0	1750 3	41989	3 3	1.0 3 3	4A01	
	1574 3	1763 5	41990	4 2	1.3 4 2	4A01	
	1578 5	1776 7	41991	4 1	1.2 4 1	4A01	
	1582 7	1783 0	41992	2 3	0.7 2 3	5B61	Gouge
	1585 0	1800 7	41993	5 7	1.7 5 6	4A41	
	1590 7	1814 2	41994	4 5	1.4 4 5	4AD1	
	1595 2	1824 5	41995	3 3	1.1 3 5	4AD1	
	1598 5	1841 0	41996	5 5	1.7 5 5	GOUGE	
	1604 0	1850 0	41997	3 0	0.9 3 0	5B6211	9
	1607 0	1865 0	41998	5 0	1.5 5 0	4L1124	
	196.5	190.0	— o —	— . —		WASTE	
	190.0 1623 5	191 6	41999	3 5	1.1 3 5	4C3±5	
	~~191.1~~						

PROJECT _____ DRILLHOLE NO. DDH 89G-14 COORDINATES: N _____ DATE July 19 1989

LOCATION _____ HOLE SIZE _____ E _____ PAGE 1 of 5

LOGGER Locker & A. Rezvit INCLINATION _____ ELEVATION _____

PITEAU & ASSOCIATES
GEOTECHNICAL CONSULTANTS
VANCOUVER CALGARY

GEOTECHNICAL CORE LOG

DEPTH (TO)	LENGTH OF RUN	CORE RECOVERY		RQD		HARDNESS	DEGREE OF BREAKAGE		DEGREE OF WEATHERING	ROCK TYPE	BEDDING DIP		BEDDING JOINTS		CROSS JOINTS		(m) depth (to)	COMMENTS	(cm) length of run
		LENGTH	length (m)	LENGTH	length (m)		CATEGORY	NO.			DEPTH	ANGLE	NO.	FREQ.	NO.	FREQ.			
9																	2.7		
14	5	3.0	.9	0	0		6		D							2	4.3		1.5
19	5	3.5	1.1	0	0		6		D							2	5.8		1.5
22	3	2.8	.9	0	0		6		D							1	6.7		.9
27	5	5.0	1.5	1.05	.3		7		E							1	8.2		1.5
30.5	3.5	3.2	1.0	0	0		6		E							1	9.3		1.1
33	2.5	2.7	.8	0	0		6		E							1	10.1		.8
38	5	5	1.5	.95	.3		7		E							1	11.6		1.5
43	4.5	5	1.5	.7	.2		7		E							1	13.1		1.4
46.5	3.5	3.5	1.1	0	0		7		E							1	14.2		1.1
50.5	4	4	1.2	.5	.2		7		E							3	15.4		1.2
55	4.5	5.3	1.6	2.25	.7		10		E							3	16.8		1.4
60.5	5.5	5.5	1.7	1.35	.4		7		E							1	18.4		1.7
66.0	5.5	5.1	1.6	.35	.1		6		E							0	20.1		1.7
71.0	5.0	5.0	1.5	.7	.2		7		E							2	21.6		1.5
76.6	5.6	5.4	1.6	.45	.1		7		E							3	23.3		1.7
82	5.4	5.4	1.6	1.6	.5		8		E							2	25.0		1.6
85	3.0	3.0	.9	0	0		7		E							1	25.9		.9
91	6.0	5.2	1.6	.7	.2		7		E							0	27.7		1.8
96	5.0	5.0	1.5	1.05	.3		6		E							2	29.3		1.5
101	5.0	4.7	1.4	0	0		7		E							3	30.8		1.5
105	4.0	4.0	1.2	0	0		8		F							3	32.0		1.2
110.6	5.6	5.1	1.6	1.15	.4		8		E							2	33.7		1.7
114.6	4.0	3.95	1.2	1.25	.4		9		E							2	34.9		1.2
116.0	1.4	1.1	.3	0	0		7		F							1	35.4		.4
119.6	3.0	3.0	.9	0	0		7		D							1	36.5		.9
124.0	4.4	5.4	1.6	.6	.2		7		D							2	37.8		1.3
129.0	5.0	3.9	1.2	1.1	.3		8		E							0	39.3		1.5

Fig. 1. Typical rock mechanics core log.

PROJECT _____ DRILLHOLE NO. DDH 896-14 COORDINATES: N _____ DATE July 19 1989.

LOCATION _____ HOLE SIZE _____ E _____ PAGE 2 of 5

LOGGER T. Kerbec & A. Reznik INCLINATION _____ ELEVATION _____

PITEAU & ASSOCIATES
GEOTECHNICAL CONSULTANTS
VANCOUVER CALGARY

GEOTECHNICAL CORE LOG

DEPTH (TO)	LENGTH OF RUN	CORE RECOVERY		RQD		HARDNESS	DEGREE OF BREAKAGE		DEGREE OF WEATHERING	ROCK TYPE	BEDDING DIP		BEDDING JOINTS		CROSS JOINTS		(m) depth (to)	COMMENTS	(m) length of run
		LENGTH	length (cm)	LENGTH	length (cm)		CATEGORY	NO.			DEPTH	ANGLE	NO.	FREQ.	NO.	FREQ.			
133	4	3.7	1.1	0	0		6		D							1	40.5		1.2
138	5	3.0	.9	0	0		6		D							2	42.1		.9
141	3.0	1.2	.4	0	0		3		F							0	42.9		.9
145.5	4.4	2.5	.8	0	0		3		D							2	44.3		.8
150.0	4.5	.8	.2	0	0		1		F							0	45.7		1.4
152.0	2	0	0	0	0		0		—							0	No Core		0
155.0	3	2.5	.8	0	0		6		D							0	47.2		.8
160.0	5.0	4.6	1.4	.35	.1		7		E							1	48.8		1.5
164.5	4.5	4.2	1.3	.75	.2		8		E							2	50.1		1.4
169.5	5.0	5.2	1.6	2.9	.9		10		E							2	51.7		1.5
174	4.5	4.5	1.4	2.1	.6		10		E							0	53.0		1.4
179.5	5.5	5.1	1.6	1.55	.5		8		E							0	54.7		1.7
184	4.5	4.1	1.2	1.05	.3		7		F							0	56.1		1.4
188	4.0	3.8	1.2	.8	.2		8		E							0	57.3		1.2
192	4.0	3.1	.9	.75	.2		7		E							1	58.5		1.2
196.5	4.5	4.5	1.4	1.55	.5		7		E							1	59.9		1.4
200.5	4.0	4.0	1.2	.35	.1		7		E							0	61.1		1.2
204.0	3.5	2.5	.8	.45	.1		7		E							1	62.2		.8
209.0	5.0	5.0	1.5	.4	.1		7		E							2	63.7		1.5
213.5	4.5	3.8	1.2	.5	.2		7		E							0	65.1		1.4
218.5	5.0	5.0	1.5	1.85	.6		9		E							0	66.6		1.5
222	3.5	3.5	1.1	.4	.1		7		E							1	67.7		1.1
226	4.0	3.9	1.2	1.25	.4		7		F							0	68.9		1.2
231	5	5.0	1.5	2.1	.6		10		F							0	70.4		1.5
233.5	2.5	2.4	.7	0	0		6		F							0	71.2		.8
237.0	3.5	1.8	.5	0	0		6		F							0	72.2		1.1
242	5.0	5.0	1.5	.35	.1		6		E							4	73.8		1.5
245	3.0	2.95	.9	.8	.2		7		E							0	74.7		.9

Fig. 1. Typical rock mechanics core log.

PROJECT _____ DRILLHOLE NO. PDH 89 614 COORDINATES: N _____ DATE July 19 1989

LOCATION _____ HOLE SIZE _____ E _____ PAGE 3 of 5

LOGGER T. Kerker & A. Reznik INCLINATION _____ ELEVATION _____

PITEAU & ASSOCIATES
GEOTECHNICAL CONSULTANTS
VANCOUVER CALGARY

GEOTECHNICAL CORE LOG

DEPTH (TO)	LENGTH OF RUN	CORE RECOVERY		RQD		HARDNESS	DEGREE OF BREAKAGE		DEGREE OF WEATHERING	ROCK TYPE	BEDDING DIP		BEDDING JOINTS		CROSS JOINTS		(m) depth (TO)	COMMENTS	(m) length of run
		LENGTH	length (m)	LENGTH	length (m)		CATEGORY	NO.			DEPTH	ANGLE	NO.	FREQ.	NO.	FREQ.			
250	5.0	5.0	1.5	1.85	.6		7		E							1	76.2		1.5
254	4.0	3.1	.9	0	0		7		E							1	77.4		1.2
259	5.0	5.0	1.5	.5	.2		7		F							1	78.9		1.5
264	5.0	5.0	1.5	2.4	.7		9		F							1	80.5		1.5
269.5	5.5	5.1	1.6	1.25	.4		9		F							0	82.1		1.7
274.5	5.0	5.0	1.5	1.75	.5		8		F							1	83.7		1.5
278.5	4.0	3.9	1.2	0	0		7		F							1	84.9		1.2
282	3.5	3.8	1.2	0	0		6		F							0	86		1.1
287	5.0	5.0	1.5	.8	.2		8		F							1	87.5		1.5
292	5.0	5.0	1.5	.5	.2		8		F							1	89.0		1.5
297	5.0	5.0	1.5	.35	.1		6		E							1	90.5		1.5
302	5.0	4.8	1.5	1.8	.5		9		F							0	92		1.5
307	5.0	5.0	1.5	.4	.1		9		F							1	93.6		1.5
312	5.0	4.7	1.4	.70	.2		7		F							1	95.1		1.5
314	2.0	2.0	.6	0	0		6		F							0	95.7		.6
321.5	7.5	5.4	1.6	.35	.1		7		E							2	98		2.3
326.5	5.0	5.0	1.5	.5	.2		9		F							0	99.5		1.5
332	5.5	5.1	1.6	1.1	.3		9		F							0	101.2		1.7
337	5.0	5.0	1.5	1.1	.3		8		F							1	102.7		1.5
342	5.0	5.0	1.5	0	0		6		F							1	104.2		1.5
347	5.0	5.0	1.5	.70	.2		6		F							2	105.8		1.5
352	5.0	5.0	1.5	1.45	.4		9		F							0	107.3		1.5
356.5	4.5	4.5	1.4	1.4	.4		7		E							1	108.7		1.4
362	5.5	5.5	1.7	0	0		6		E							3	110.3		1.7
367	5.0	5.0	1.5	.70	.2		8		E							2	111.9		1.5
370	3.0	3.0	.9	0	0		6		E							2	~~113.8~~ 112.7		.9
372.5	3.5	3.4	1.0	1.55	.5		10		F							2	113.8		1.1
379	5.5	5.1	1.6	1.45	.4		9		F							1	115.5		1.7

Fig. 1. Typical rock mechanics core log.

PROJECT _____ DRILLHOLE NO. DDH 89G14 COORDINATES: N _____ DATE July 19 1989

LOCATION _____ HOLE SIZE _____ E _____ PAGE 4 of 5

LOGGER T. Kerber & A. Reznik INCLINATION _____ ELEVATION _____

PITEAU & ASSOCIATES
GEOTECHNICAL CONSULTANTS
VANCOUVER CALGARY

GEOTECHNICAL CORE LOG

DEPTH (TO)	LENGTH OF RUN	CORE RECOVERY LENGTH	CORE RECOVERY length (m)	RQD LENGTH	RQD length (m)	HARDNESS	DEGREE OF BREAKAGE CATEGORY	DEGREE OF BREAKAGE NO.	DEGREE OF WEATHERING	ROCK TYPE	BEDDING DIP DEPTH	BEDDING DIP ANGLE	BEDDING JOINTS NO.	BEDDING JOINTS FREQ.	CROSS JOINTS NO.	CROSS JOINTS FREQ.	depth (m) (to)	COMMENTS	length of run (m)
384	5.0	5.0	1.5	.5	.2		7		F							3	117		1.5
389	5.0	5.0	1.5	1.4	.4		8		F							0	118.6		1.5
394	5.0	5.0	1.5	3.05	.9		10		F							1	120.1		1.5
399/5	5.5	5.2	1.6	1.75	.5		9		F							2	121.8		1.7 ~~1.6~~
404/5	5.0	5.0	1.5	2.95	.9		12		F							1	123.3		1.5
409/5	5.0	5.0	1.5	2.1	.6		10		F							3	124.8		1.5
414/5	5.0	5.0	1.5	2.75	.8		12		F							0	126.3		1.5
420	5.5	5.3	1.6	.5	.2		8		F							0	128.0		1.7
425	5.0	5.0	1.5	.5	.2		8		F							0	129.5		1.5
426.5	1.5	1.4	.4	0	0		6		D							0	130.0		.4
430	3.5	3.5	1.1	.4	.1		6		D							1	131.1		1.1
435	5.0	5.0	1.5	0	0		6		E							0	132.6		1.5
439.5	4.5	4.2	1.3	.8	.2		7		E							2	134		1.4 ~~1.3~~
444.5	5.0	5.0	1.5	.8	.2		6		E							3	135.5		1.5
449.5	5.0	5.0	1.5	1.6	.5		9		F							1	137		1.5
454.5	5.0	5.0	1.5	.6	.2		8		F							2	138.5		1.5
460	5.5	5.3	1.6	1.3	.4		8		F							0	140.2		1.7
464.5	4.5	4.5	1.4	0	0		7		F							2	141.6		1.4
466	1.5	1.5	.5	0	0		5		E							1	142.0		.5
470.5	4.5	2.7	.8	0	0		5		E							1	143.4		1.4 ~~.8~~
474.5	4.0	2.4	.7	0	0		5		E							1	144.6		1.2 ~~.7~~
478.5	4.0	3.7	1.1	.35	.1		6		E							1	145.8		1.2 ~~1.1~~
483.5	5.0	5.0	1.5	.9	.3		8		F							1	147.4		1.5
492	8.5	5.2	1.6	.4	.1		8		F							0	150		2.6 ~~1.6~~
497	5.0	5.0	1.5	1.5	.5		8		F							2	151.5		1.5
502	5.0	4.8	1.5	1.0	.3		8		F							2	153		1.5
507	5.0	5.0	1.5	2.3	.7		9		F							2	154.5		1.5
512	5.0	5.0	1.5	1.1	.3		8		F							1	156.1		1.5

Fig. 1. Typical rock mechanics core log.

PROJECT _____ DRILLHOLE NO. DDH89614 COORDINATES: N _____ DATE July 19 1989

LOCATION _____ HOLE SIZE _____ E _____ PAGE 5 of 5

LOGGER T. Kacher & A. Reznik INCLINATION _____ ELEVATION _____

PITEAU & ASSOCIATES
GEOTECHNICAL CONSULTANTS
VANCOUVER CALGARY

GEOTECHNICAL CORE LOG

DEPTH (TO)	LENGTH OF RUN	CORE RECOVERY		RQD		HARDNESS	DEGREE OF BREAKAGE		DEGREE OF WEATHERING	ROCK TYPE	BEDDING DIP		BEDDING JOINTS		CROSS JOINTS		(m) depth (to)	COMMENTS	(m) length of run
		LENGTH	length (m)	LENGTH	length (m)		CATEGORY	NO.			DEPTH	ANGLE	NO.	FREQ.	NO.	FREQ.			
517	5.0	5.0	1.5	1.65	.5		9		F							1	157.6		1.5
522	5.0	5.0	1.5	1.3	.4		8		F							1	159.1		1.5
528	6.0	4.75	1.5	0	0		7		F							4	161		1.8
532	4.0	4.0	1.5	2.2	.7		10		F							2	162.2		1.2
537	5.0	5.0	1.5	0	0		7		F							2	163.7		1.5
542	5.0	5.0	1.5	0	0		6		F							0	165.2		1.5
547	5.0	5.0	1.5	1.1	.3		9		F							1	166.7		1.5
552	5.0	5.0	1.5	1.0	.3		9		F							2	168.2		1.5
557	5.0	5.0	1.5	.35	.1		6		E							2	169.8		1.5
562	5.0	5.0	1.5	1.0	.3		7		E							1	171.3		1.5
567	5.0	5.0	1.5	0	0		6		E							3	172.8		1.5
572	5.0	5.0	1.5	1.15	.4		8		E							2	174.3		1.5
577	5.0	5.0	1.5	.5	.2		7		E							2	175.9		1.5
582	5.0	5.0	1.5	1.4	.4		8		E							1	177.4		1.5
587	5.0	5.0	1.5	.4	.1		3		D							2	178.9		1.5
592	5.0	5.0	1.5	1.2	.4		9		F							2	180.4		1.5
597	5.0	5.0	1.5	1.4	.4		8		F							2	182		1.5
607	10.0	5.0	1.5	3.5	1.1		10		F							0	185.0		~~1.5~~ 3
612	5.0	5.0	1.5	1.6	.5		9		F							0	186.5		1.5
617	5.0	5.0	1.5	1.1	.3		9		F							1	188.1		1.5
627	10.0	7.1	2.2	5.0	.2		10		F							1	191.1		~~3.2~~
							— EOH —												

Fig. 1. Typical rock mechanics core log.

89-G-15

CURRAGH RESOURCES INC.

Page 1 of ____

DIAMOND DRILL CORE LOG

Date: _____

Hole Number: 89G-15

Reference Fabric Orientation Diagram:

Project: 1989 GRUM FILL-IN

Location: _____

Claim: _____

Terr.Plane Co-ords.: 6905247.446 N 6,637.62 N

592204.138 E 2,857.21 E

Grid Co-ords: 82W / 8N

Elevation: 1304.102

All symmetry determinations looking

Total Depth: 572 feet

_____ with _____ dipping

Inclination: -65° to NE

_____ with dip azimuth _____.

Purpose: _____

Reason hole Terminated: _____

Logged by: _____

Date(s) Logged: _____

Drilling Contractor: ARCTIC

CORE Size	From	To	
NW	0	16 feet	
NQ	16	572 feet	

Collar Cased and Capped: ____

Hole Cemented: _____ Steel down Hole: _____

Assay Lab: _____

Certificate No's: _____

Started: July 15/89 Completed: July 17/89

_____

CURRAGH RESOURCES INC.

Diamond Drill Core Log

DDH 89G-115

Date: _____ Logged By: _____

Code	Drillhole	Elevation	Northing	Easting	Units (feet/metres)	R.F.E.	
I	2 8	10 16	17 24	25 32	34 39	41 42	
T							

FEET

Code	Drillhole	Depth	Zenith Angle	True Azimuth	Comments
I	2 8	10 14	22 26	28 32	34 56
R	89G-115	00	-65.0	142.0	AT COLLAR
R	89G-115	1254.0	-67.0	141.0	SPERRYSUN
R	89G-115	1404.0	-68.5	156.0	SPERRYSUN
R	89G-115	1554.0	-69.0	163.0	SPERRYSUN
R		.	.	.	
R		.	.	.	
R		.	.	.	
R		.	.	.	
R		.	.	.	
R		.	.	.	
R		.	.	.	
R		.	.	.	
R		.	.	.	
R		.	.	.	
R		.	.	.	
R		.	.	.	
R		.	.	.	
R		.	.	.	
R		.	.	.	
R		.	.	.	
R		.	.	.	
R		.	.	.	
R		.	.	.	
R		.	.	.	
R		.	.	.	

Code	Drillhole	Comments, Errant Remarks, Snivellings and / or Lewd Suggestions
I	2 8	10 56

DDH 89G-15 (2 – 8) FEET

CURRAGH RESOURCES INC.
Lithologic Log

Date: Sept 5/89 Logged By: KCP

Code	From	To	Recov.	No.	Unit	Description
1	10 – 14	16 – 20	22 – 24	26 – 28	30 – 34	35
	0 0	16 0		1	#1	CASING - TRICONED - NO RECOVERY
		4 9				
	16 0	63 4		2	5B02	± 7 MINOR (5D0 ± 4 MINOR) TRACE
		19 3				Soft, CS2-foliated, calcareous, dark grey, thinly banded phyllite. Contains scattered, irregular pyrite porphyroblasts. S2 surfaces are silvery grey to steely grey and do not mark the fingers. Calcite associated w/ qtz in thin qtzose siltstone bands. Siltstones define S1 microlithons. Contains very minor black "cherty" nodules only 1-3 mm across. Locally cut surface has a faint medium green tinge.
						Also contains a few pale olive to pale tan, PS2-foliated, homogeneous chloritic phyllite to altered chloritic phyllite. Probably represents folded hinge of larger metabasite adjacent to drill hole.
						TOI - 49 Core very broken and rubbly local gouges. Some intervals w/ poor recovery. 16-22 only 0.8 feet core / 22-27 1.3 feet rubble / 27-30 0.5 feet rubble / 30-33.5 2.2 feet core / 33.5-35.5 1.8 feet core / 35.5-39.5 1.7 feet core / 39.5-42 1 foot rubble / 42-47 0.8 feet core w/ note of mislatch / 47-49 0.5 feet core w/ note of mislatch
						49-57 mod. broken, mod. poker chippy recovery seems OK
						57-59.5 very rubbly w/ mud gouge. Only 1 foot core - probably lost in this interval rather than between 49 to 57. No major faults - top of hole garbage.
	63 4	66 5		3	5D01	
		20 3				Soft, pale olive, calcareous, poorly CS2-foliated chloritic phyllite. S2 surfaces are silvery olive. Contains off white small, indistinct, calcite fold "hooks" which poorly define S1 microlithons. Also thin white qtz-calcite veinlets folded by D2. Marginal contacts are hidden in rubble. Core mod. broken w/ local rubble. Recovery OK.

DDH 89G-15
2 8

CURRAGH RESOURCES INC.
Lithologic Log

Date: Sept 5/89 Logged By: LCP

Code	From	To	Recov.	No.	Unit	Description
1	10 14	16 20	22 24	26 28	30 34	35
	16 5	82 0 25 0		4	5B0217	Similar to Unit # 2 (16-63.4). Soft, CS2-foliated, medium dark grey, calcareous, thinly banded phyllite. S2 surfaces are silvery grey to steely grey and slightly mark the fingers. Cut surfaces has a medium green tinge when wet. Calcite associated w/ qtz in thin qtzose siltstone bands. Siltstones are folded to form S1 microlithons within S2 pressure soln stripes. Scattered irregular pyrite porphyroblasts. TOI-76.5 Very brken & rubbly w/ local gouges. At 74.5 upper contact of small gouge has orientation 75/180 wrt S2. // 76.5-EOI Mod. brken w/ good recovery
	82 0	91 3 27 8		5	5D01	(5B20) 65:35 Soft, PS2-foliated, pale olive, calcareous, homogeneous chloritic phyllite. S2 surfaces are silvery pale olive. Contains thin and thick qtz ± calcite veinlets parallel S2. Marginal contacts are sharp parallel S1 — folded by S2. Lower 1/3 of unit consists of similar unit to #s 2 & 3 (16-63.4 & 66.5-82.0). Medium dark grey, PS2-foliated, soft, calcareous, thinly banded phyllite. S2 surfaces are steely grey and slightly mark the fingers. Contains irregular pyrite porphyroblasts - locally these are surrounded by a rust orange-brown stain. Calcite associated w/ qtz in thin siltstone bands. Compositional banding generally subparallel S2. TOI-86 mod. brken w/ good recovery // 86-87 very brken w/ good recovery // 87-EOI mod. brken w/ good recovery
	91 3	114 8 35 0		6	GOUGE	5B02 (5D0) TRACE Rubble and mud gouge. Dominantly dark grey to black w/ a few thin greenish tan bands. Poor recovery 87-92 has 4' core - probably lost in this interval / 92-97 1.5 feet gouge / 97-102 2 feet gouge / 102-107 1.4 feet rubble & gouge / 107-111 2.4 feet mud gouge / 111-EOI 2 feet mud gouge. Significant fault ???

DDH 89G-15
2 8

CURRAGH RESOURCES INC.
Lithologic Log

Date: Sept 5/89 Logged By: LCP

Code	From	To	Recov.	No.	Unit	Description
1	10 14	16 20	22 24	26 28	30 34	35
	111148	113136		17	151D1$1	± 0 (5A0) 80:20
		40 7				Soft, PS2-foliated, pale olive, homogeneous chloritic phyllite. S2 surfaces are pale silvery green. At upper part of interval unit weathers tan and contains only dolomite as carbonate. As go down DDH pick up calcite until rare EOI have dominantly calcite. D2 folds defined by thin qtz-calcite veinlets. Scattered pyrite porphyroblasts have extensive rust orange stains around them. Marginal contacts parallel S1-folded by D2- and are sharp.
						Contains interbands of dark grey, slightly to moderately calcareous, PS2-foliated, moderately soft to moderately hard phyllite. S2 surfaces are rarely flat to shiny black and moderately to strongly mark fingers.
						Core slightly to moderately broken w/ good recovery
	113136	115152		18	15A101	(1020) (5D0) 85:10:05
		46 2				Moderately soft, CS2-foliated, very dark grey, calcareous, thinly banded phyllite S2 surfaces are flat black to shiny black and slightly to moderately mark fingers. Contains scattered subhedral pyrite porphyroblasts. Calcite associated w/ qtz as thin qtz-rich siltstone bands. Typically the siltstones define S1 microlithons between S2 carbonaceous pressure soln slipses
						Contains crudely S2 foliaform pegmatitic white quartz bull veins up to 60cm thick. These have pegmatitic calcite. Also have infolds and/or clasts/fragments of phyllite.
						Also contains thin, pale olive, PS2-foliated, homogeneous, soft chloritic phyllite. S2 surfaces are silvery olive. Thickest band about 10cm. Marginal contacts w/ 5A are sharp, parallel S1 and forming D2 fold hinges.
						Core mod. broken w/ short rubbly intervals. Recovery OK No faults. At EOI have small post-D2 fold disrupting S2 orientations locally.

DDH 89G-15
2 8

CURRAGH RESOURCES INC.
Lithologic Log

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Date: Sept 6/89 Logged By: KCP

Code	From	To	Recov.	No.	Unit	Description
1	10 14	16 20	22 24	26 28	30 34	35
	1151 5	1157 8 48 1		9	5D0	Soft, PS2-foliated, calcareous, pale olive chloritic phyllite. S2 surfaces are silvery olive w/ medium green patches. Contains thin white qtz-calcite veinlets & veins which are crudely S2 foliaform. S2 still disrupted by post-D2 folding. Contains small en-echelon tension gashes infilled w/ calcite - probably related to this post D2 deformation. Homogeneous. Scattered, irregular pyrite porphyroblasts have rusty orange stain around them. Marginal contacts sharp. Core slightly broken w/ good recovery
	1157 8	1180 0 54 9		10	5B0 8	±3 (5A0 ±3)(5D0) 85:05:10 [5B07 ±3] Soft, thinly banded, calcareous, medium grey phyllite. S2 surfaces are generally silvery grey. Cut surface has definite medium green tinge when wet. Locally contains intervals of grey, medium xlline marble up to 3cm thick. Banding defined by pale grey thin calcite-qtz siltstone bands. Typically siltstones form S1 microlithons between S2 pressure soln stripes. Contains numerous small en echelon tension gashes infilled w/ calcite. Locally intervals of pelitic schist are very dark grey to black. S2 surfaces are shiny to sooty black and slightly to moderately mark the fingers. Also contains thicker intervals of dark grey calcite marble. Thinly banded w/ calcite-qtz siltstones defining the S1 microlithons Contains intervals of pale olive, homogeneous, PS2-foliated, calcareous chloritic phyllite. S2 surfaces are pale silvery green. Marginal contacts are sharp. These intervals are generally less than 30 cm thick. TOI - 175.5 core mod. broken w/ local rubbly intervals. Recovery OK // 175.5-EOI Very broken & poker chippy w/ short rubbly intervals. Recovery OK. No major faults.

DDH 96-115
2 8

CURRAGH RESOURCES INC.
Lithologic Log

Date: Sept 6/89 Logged By: LCP

Code	From	To	Recov.	No.	Unit	Description
1	10 14	16 20	22 24	26 28	30 34	35
	118100	118151 / 56 4		111	15D101	(5B70 {5B80} {5D FIELD}) 60:40
						Interbanding of two similar rock types. 5D is soft, PS2-foliated, pale olive, calcareous chloritic phyllite. S2 surfaces are pale silvery olive. Contains thin white qtz-calcite veinlets. Homogeneous, massive appearance.
						Interbands are moderately soft to soft, CS2-foliated, pale green, thinly banded phyllite. S2 surfaces are pale silvery green. Calcareous w/ white accumulations of qtz in thin siltstone bands. Distinguished from 5D largely by slightly different green colours and thinly banded nature.
						TOI - 1815 Mod broken w/ local 5-10 cm incipient gouges // 1815 - EOI Mod. to very broken. Recovery over entire interval good.
	118151	119105 / 58 1		112	5B101218	[5B027] (5DO) TRACE
						Soft to moderately soft, CS2-foliated, medium dark grey, calcareous phyllite. Thinly banded w/ calcite-qtz siltstones defining S1 microlithons. S2 surfaces are steely grey to silvery green. Scattered, irregular pyrite porphyroblasts. Contains a few 1-3cm bands of homogeneous, PS2-foliated, pale olive chloritic phyllite (5D). S2 surfaces are pale silvery green. Marginal contacts w/ 5B are sharp.
						Core mod. broken to very broken chippy w/ good recovery
	119105	121012 0 / 61 6		113	15D101	
						Soft, PS2-foliated, olive green, calcareous, chloritic phyllite S2 surfaces are shiny olive. Contains thin calcite-qtz veinlets which define D2 minor folds. Marginal contacts are sharp. Contains some thin 5B70 interbands which are difficult to recognize — in one instance distinguished only because has black chalky nodules which is partially bleached white.
						Core mod. broken w/ good recovery. Unit homogeneous & massive overall.

DDH 89G-115
2 8

CURRAGH RESOURCES INC.
Lithologic Log

Date: Sept 6/89 Logged By: HLP

Code	From	To	Recov.	No.	Unit	Description
1	10 14	16 20	22 24	26 28	30 34	35
	121012 0	121014 4 62 3		114	15B1816	± BIO MINOR [426 ± BIO MINOR] Soft, PS2-foliated, pale silvery green, noncalcareous phyllite. S2 surfaces are pale silvery green. Colour most appropriate for green metapelite rather than green metabasite. Lower contact gradational into darker green phyllite. Minor scattered pyrite porphyroblasts. Minor fine pyrrhotite w/ qtz in 1 hair veinlet parallel S2. Minor fine biotite adjacent to 1 hair cutting fracture infilled w/ calcite. Core intact w/ good recovery. This unit transitional to next unit down the DDH
	121014 4	12121 1 67 4		115	5B12181	(5DO) 95:05 Soft, PS2-foliated, dark greenish grey, slightly calcareous phyllite. S2 surfaces are silvery grey to steely grey. Wet cut surface has definite medium to dark green tinge. PS2 foliation is actually closer to a poorly defined CS2 w/ microlithons being defined by micas. Minor scattered, irregular pyrrhotite porphyroblasts. Contains some interbands of PS2-foliated, soft, calcareous, pale olive to dark olive, homogeneous chloritic phyllite. Marginal contacts are sharp parallel S1 generally. These interbands occur near TOI and EOI. Thickness ranges from 2cm - 40cm. Core slightly to mod. broken w/ good recovery.
	12121 1	121214 4 68 4		116	15D10	± BIO MINOR Soft, PS2-foliated, calcareous, pale to medium olive chloritic phyllite. S2 surfaces are silvery olive. Very homogeneous unit — not even very many qtz-calcite veinlets. Minor fine biotite developed locally adjacent to cutting fracture infilled w/ calcite. Upper contact sharp against 5B. Core slightly broken w/ good recovery

DDH 89G-15

CURRAGH RESOURCES INC.
Lithologic Log

Date: Sept 6/89 Logged By: LCP

Code	From	To	Recov.	No.	Unit	Description
1	10 14	16 20	22 24	26 28	30 34	35
	2214 4	2216 2 68 9		17	10Q0	(5C7$4)(5D$) 60:30:10 Continuation of last unit only contains dolomite rather than calcite as carbonate. At TOI have 10 cm of 5D. Same as Unit # 16 (224.4) only carbonate is dolomite. PS2-foliated, homogeneous, pale olive, chloritic phyllite. Then have 20cm of olive tan, striped, foliated 5C. Chlorite as thin laminae in a pale olive tan matrix. Contains a few bright green "fuchsite" spots / streaks. Rest of interval is pegmatitic white bull qtz. Core mod. brken w/ good recovery.
	2216 2	2219 0 69 8		18	5B$	Moderately soft, PS2-foliated, thinly banded, pale grey phyllite. Banding defined by tan-weathering qtz-dolomite siltstones up to 1cm thick. S2 surfaces are silvery grey. Contains xcutting fractures infilled w/ dolomite-qtz. Core slightly brken w/ good recovery.
	2219 0	2310 4 70 2		19	5C4$	7 Soft, PS2-foliated, pale olive tan muscovite-chlorite phyllite. Dolomitic. Chlorite forms thin laminae defining S1 compositional banding. Contains small streaks of bright green "fuchsite". Has relict equigranular igneous texture which has been disrupted by development of S1 and S2 cleavages. Core mod. brken w/ good recovery.
	2310 4	2413 9 74 3		20	5B$2	Soft, PS2-foliated, dolomitic, medium grey phyllite. S2 surfaces are silvery grey to steely grey. Dolomite infills late, xcutting, en echelon fractures / tension gashes. Core weathers w/ pale tan aspect because of dolomite weathering. Dolomite associated w/ qtz in thin siltstones generally forming compositional bands within S2. Core moderately brken w/ good recovery.

DDH 89G-15
2 8

CURRAGH RESOURCES INC.
Lithologic Log

Date: Sept 6/89 Logged By: LCP

Code	From	To	Recov.	No.	Unit	Description
1	10 14	16 20	22 24	26 28	30 34	35
	12413 9	12419 6 76 1		121	4A4	(5B76 [5B64]) 85:15 Very hard, dark grey, noncalcareous, ribbon-banded qtzite. S2 surfaces are flat black and slightly to moderately mark the fingers. Ribbon-banding defined by qtz ± pyrite bands up to 2cm thick in a fine-grained, dark grey, qtzitic matrix. Ribbons are generally parallel S2. Unit is PS2-foliated. Sphalerite typically occurs along S2 pressure soln stripes and is not closely associated w/ qtz±pyrite ribbons. Contains resulting tension gashes infilled by qtz-ankerite (? - barely reacts to acid). Pyrite content ranges from 0-10%. Estimated grade 7% (Pb+Zn) Interval 244.5-245.5 is moderately hard, noncalcareous, thinly banded, greenish grey phyllite. S2 surfaces are pale silvery greenish grey. Unit is PS2-foliated. Possible infold of phyllite w/ phase 2 folding. Core slightly broken to intact w/ excellent recovery
	12419 6	12615 8 81 0		122	4A0	Hard, noncalcareous, CS2-foliated, ribbon banded pyritic qtzite. S2 defined by carbonaceous, spaced pressure soln stripes. S2 surfaces are flat black but only slightly mark the fingers. Ribbon banding defined by pale grey to off-white qtz "veinlets" containing coarse, disseminated, angular pyrite. Pyrite content ranges from 5-20%. Ribbon bands are locally up to 5cm thick but generally less than 1cm thick. Estimated grade 1-2% Pb+Zn at the most. TOI - 263.5 moderately to slightly broken w/ good recovery. // 263.5-EOI very broken and rubbly w/ good recovery.
	12615 8	12755 84 0		123	4A4	Hard, noncalcareous, dark grey, ribbon-banded, pyritic qtzite. S2 surfaces are flat black and moderately to strongly mark fingers. Both CS2- and PS2-foliated. Upper portion

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2 8

CURRAGH RESOURCES INC.
Lithologic Log

Date: Sept 6/89 Logged By: LCP

Code	From	To	Recov.	No.	Unit	Description
1	10 14	16 20	22 24	26 28	30 34	35
		121715 5		213		of interval is dominantly PS2-foliated. Ribbon-banding defined by off-white qtz-sulphides bands. Bands are parallel S1 and S2. Sulphides in different bands consist of sphalerite (+galena), sphalerite-pyrite, pyrite. Locally sphalerite also disseminated as fine sheaks in dark grey matrix qtzite. Barren pyrite-qtz bands are typically parallel S2. Pyrite content 5% or less. Estimated grades 9-12% (Pb+Zn). Sphalerite > pyrite. Lower contact to next unit is gradational
						TOI - 267.7 slightly broken w/ good recovery // 267.7 - 268.8 very broken & poor chippy w/ good recovery // 268.8 - EOI Mod. broken w/ good recovery
	121715 5	121719 1 85 1		214	14D15T	
						Hard, medium grey, CS2-foliated, ribbon-banded, pyritic qtzite. S2 surfaces are steely grey to silvery grey. S2 surfaces are very micaceous. Unit is lighter coloured grey than previous unit (@ 23 - 2755). Contains pale grey qtz-pyrite ± sphalerite ribbons medium or medium grey, barren qtzite matrix. Colour contrast for ribbon-banding is not as strong as with the 4t. Pyrite content 1-5%. Estimated grade 6-8% (Pb+Zn). Both upper and lower contacts are gradational Core slightly broken w/ good recovery
	121719 1	121814 4 86 7		215	14D10I	(5C746) 60:40
						Symmetrical interval w/ 4D both above and below the 5C unit 4D is very hard, CS2-foliated, creamy white, noncalcareous, slightly pyritic qtzite. S2 surfaces are silvery white from fine muscovite. Sulphides occur as thin bands parallel S1 and S2. Thicker bands (up to 1cm) are parallel S2 Sphalerite > pyrite. Pyrite content 5% Estimated grade 7-9% (Pb+Zn). Upper contact gradational w/ rapid loss of carbon grey Lower part of interval has faint pale green tinge.
						5C consists of soft PS2-foliated pale olive noncalcareous chloritic phyllite

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2 8

CURRAGH RESOURCES INC.
Lithologic Log

Date: Sept 7/89 Logged By: LCP

Code	From	To	Recov.	No.	Unit	Description
1	10 14	16 20	22 24	26 28	30 34	35
		121814 4		1215		S2 surfaces are pale silvery olive. Contains S2-parallel stripes which are pale tan. Locally tan stripes contains thin medium to dark green streaks. Marginal contacts w/ 4D are sharp. SC for interval 280.3 - 281.9. Core slightly broken to intact w/ good recovery
	121814 4	121818 8 88	8 0	1216	51C171$1	±9 ±4 minor (4DO "CHLORITIC") 50:50 Major unit is moderately soft, CS2-foliated, moderately dolomitic, pale olive and tan striped chloritic phyllite. S2 surfaces are medium chlorite green to silvery green. Striping defines S1 w/ S2 defined by micas and by faint, discontinuous tan stripes. Minor local development of bright green "fuchsite" streaks parallel S2. Locally contains 1cm thick bands crudely parallel S2 which contain abundant disseminated sphalerite + galena w/ less pyrite. Marginal contacts w/ 4D are sharp, parallel S1.
						4D is hard, noncalcareous, CS2-foliated, pale green, slightly pyritic phyllite. S2 surfaces are very pale silvery green. Sulphides disseminated in thin compositional bands parallel S1 and S2. Sulphide-rich bands include the assemblages: pyrite, pyrite-sphalerite, sphalerite. Generally bands are less than 1cm thick. Pale green colour strongly suggests this 4D is a silicified metabasite. Very similar to that noted in upper ore intersections in DDH 89G-17. Core intact w/ excellent recovery
	121818 8	131010 8 91 7		1217	51C171$	Soft, PS2-foliated, dolomitic, medium green, striped to streaked chloritic phyllite. S2 surfaces are silvery to medium chloritic green. Unit is streaked to striped between pale grey dolomite-rich and medium green chlorite-rich bands. Bands & streaks are up to 5mm thick. No "fuchsite" developed. Core mod. broken - recovery OK.

DDH 8.9.G-1.5
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CURRAGH RESOURCES INC.
Lithologic Log

Date: Sept 7/89 Logged By: LCP

Code	From	To	Recov.	No.	Unit	Description
1	10 14	16 20	22 24	26 28	30 34	35
	13010 8	13034 92 5		218	4D01	Hard, PS2-foliated, noncalcareous, white, pyritic qtzite. S2 surfaces are silvery white from muscovite. Sulphides form irregular fine streaks and bands within qtzite. Incipient bxa texture as sulphides are "remobilizing" into thin fractures which are post D2. Gives overall textural appearance of interstitial sulphide network w/ qtz angular "clasts". Pyrite ≈ sphalerite. Total Sulphides about 10%. Estimated grade 6% (Pb+Zn). Upper contact sharp & irregular against 5C. Lower contact rapidly gradational into 4A. Core slightly broken w/ good recovery.
	13034	13076 93 8		219	4A4	Hard, medium dark grey, noncalcareous, ribbon-banded, pyritic qtzite. Ribbon banding about 50% of unit. Alternating between pale grey qtz-pyrite-sphalerite ribbons and thin barren dark grey qtzite on a scale of 2cm or less. Generally PS2-foliated. S2 surfaces are dark steely grey and slightly mark fingers. Uppermost 1.5 feet has bxa & very fractured textured w/ sulphides remobilized into thin post-D2 fractures. Extensive late white qtz veining and stylolitic carbonaceous laminae in this interval. More regular PS2-ribbon banding below this bxiated area. Lower contact gradational rapidly to 4D. Sphalerite > pyrite. Total S= 30%. Estimated grade 12-14% (Pb+Zn). TOI-306 core mod. broken w/ good recovery // 306-307 very broken & rubbly w/ good recovery // 307-EOI intact w/ excellent recovery.
	13076	13127 95 3		310	4D01	(5D46 I $) 70:30 Major unit is off-white, PS2-foliated, hard, noncalcareous, pyritic qtzite. S2 surfaces have irregular, patchy silvery white muscovite sheen. Sulphides occur in compositional

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CURRAGH RESOURCES INC.
Lithologic Log

Date: Sept 7/89 Logged By: LCP

Code	From	To	Recov.	No.	Unit	Description
1	10 14	16 20	22 24	26 28	30 34	35
		3112 7		310		bands up to 1cm thick generally parallel S2. Sphalerite >> pyrite. Pyrite occurs as subhedral grains with fine-grained sphalerite-rich matrix. Total sulphides 10-15%. Pyrite content 1-5%. Estimated grade 8% (Pb+Zn)
						Contains interbands of soft, PS2-foliated, pale tan to olive tan, noncalcareous to locally dolomitic phyllite. S2 surface is silvery tan to locally pale silvery green. Marginal contacts are sharp. Locally contains bright blue green "fuchsite" streaks & spots
						Core slightly to moderately broken - recovery excellent.
	3112 7	3211 1		311	4A01	→ (4C5) (5C4$) 70:30: TRACE
		97 9				Hard, medium dark grey, CS2-foliated, noncalcareous, ribbon-banded, pyritic qtzite. S2 surfaces are dark silvery grey to shiny black and slightly to moderately mark the fingers. Unit is fence-sitter - transitional from 4A to 4C5. Ribbon-banding texture present but greys look slightly bleached. Pyrite content 1-5%. Contains minor sphalerite in thin laminae. Estimated grade 3-4% (Pb+Zn).
						Contains a 10cm band of pale tan & grey, poorly streaked, dolomitic, muscovite-qtz phyllite. S2 surfaces are silvery tan. Texture is foliated relict igneous metabasite. Marginal contacts are sharp.
						Core mod. to very broken. Recovery is good
	3211 1	3214 2		312	5C46	
		98 8				Soft, PS2-foliated, noncalcareous, pale tan phyllite. Contains laminae and discontinuous streaks of bright green "fuchsite". S2 surfaces are silvery tan w/ bright green "fuchsite" spots. Contains folded, discontinuous, white vein qtz lenses and bands. S2 fltn disrupted along late xcutting fractures.
						Core mod. broken w/ good recovery

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2 8

CURRAGH RESOURCES INC.
Lithologic Log

Date: Sept 7/89 Logged By: LCP

Code	From	To	Recov.	No.	Unit	Description
1	10 14	16 20	22 24	26 28	30 34	35
	131214 2	131310 1		1313	141A141	(5C4 & MINOR) 95:05
		100 6				Hard, noncalcareous, dark grey, pyritic qtzite. S2 surfaces are flat to shiny black and moderately mark the fingers. Lower 1/3 of unit contains well developed BS2 ribbon-banded texture. In upper 2/3 of unit structure dominated by tectonic disruption along late scattering fractures. Abundant white qtz-filled tension gashes, carbonaceous stylolitic laminae, discontinuous compositional banding. Estimated grade 6-8% (Pb+Zn). Pyrite content varies from 1-10%. Lower contact gradational to lighter grey
						At 326 feet have 20cm interval of highly altered metabasite. Pale tan, soft, noncalcareous phyllite. Contains discontinuous streaks of bright green "fuchsite"
						Dolomite occurs as irregular vein material forming lenses within the phyllite.
						Core mod. broken w/ good recovery
	131310 1	131318 8		1314	141C151	{4A 124 carbonaceous}
		103 3				Hard, CS2-foliated, noncalcareous, pyritic qtzite. S2 surfaces are silvery grey. S2 pressure soln stripes are moderately soft and very micaceous. Contains 1-5cm thick intervals w/ disseminated, interstitial sulphides between the "qtz grains". Pyrite also "remobilized" into late scattering fractures. Interval generally barren but locally contains compositional bands w/ sphalerite. Pyrite content 5-10% Estimated grade 0-4% (Pb+Zn). Upper contact gradational from 4A. This unit is slightly softer than 4A - nail will slightly scratch this unit.
						Core mod. broken w/ good recovery
	131318 8	131413 2		1315	151B161	9
		104 6				Moderately hard to hard, BS2-foliated, noncalcareous, grey phyllite. S2 surfaces are silvery grey. Contains thin grey qtzite interbands locally has fine interstitial pyrite-sphalerite.
						Unit is transitional from qtzite above to phyllite below. Core mod. broken w/ good recovery.

DDH 376-15

CURRAGH RESOURCES INC.

Lithologic Log

Date: Sept 7/89 Logged By: LLP

Code	From	To	Recov.	No.	Unit	Description
1	10 14	16 20	22 24	26 28	30 34	35
	131413 2	131418 7 106 3		1316	151B1219	$ MINOR Moderately soft, medium dark grey, PS2-foliated, slightly dolomitic phyllite. S2 surfaces are silvery grey to steely grey. Contains minor pyrite ± sphalerite in thin qtzose lenses and within scattered fractures. Upper contact transitional-gradational. Core moderately to very broken w/ good recovery.
	131418 7	131511 5 107 1		1317	1101Q1019	White pegmatitic qtz vein w/ irregular fracture fillings of pyrrhotite. Core very rubbly and broken.
	131511 5	131516 5 108 7		1318	51A1$191	MINOR Moderately soft, PS2-foliated, dark grey to black phyllite. S2 surfaces are steely grey to shiny black. Dolomite associated w/ qtz and lesser pyrite in thin siltstone bands up to 5 cm thick. Also contains thin qtz-pyrite veinlets which are also folded by D2 deformation. Core mod. broken and moderately poker chippy. Core recovery good.
	131516 5	131711 0 113 1		1319	15A161	± GOUGE Noncalcareous, moderately soft, PS2-foliated, very dark grey phyllite. S2 surfaces are shiny black. Contains minor thin dark grey qtzose siltstone bands. Also contains minor thin qtz-pyrite veinlets. Core very poker-chippy and very broken. Contains local 5-20 cm gouge intervals. Recovery OK TOI-365.5 / 365.5-368 only 1.4 feet core / 368-371 only 0.8 feet core. Does not look like major fault because of absence of major / significant gouge.

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CURRAGH RESOURCES INC.
Lithologic Log

Date: Sept 7/89 Logged By: LCP

Code	From	To	Recov.	No.	Unit	Description
1	10 14	16 20	22 24	26 28	30 34	35
	131711 0	131713 0		1410	5A1611 9	
		113 7				Dark grey, PS2-foliated, noncalcareous phyllite. S2 surfaces are shiny black to dark grey. Unit characterized by pale grey qtz-pyrite ± sphalerite compositional bands parallel S2. Has appearance of ribbon-banded texture typical of 4A - only dark grey barren bands are phyllite rather than qtzite. Core mod. to very broken w/ good recovery
	131713 0	131918 2		1411	14C15	
		121 4				Hard, medium pale grey, pyritic, noncalcareous qtzite. S2 surfaces are silvery grey. Cut surface is pale grey when dry and medium grey when wet. Generally CS2-foliated w/ S1 folia being thin carbonaceous laminae. Pyrite disseminated in thin, diffuse compositional bands up to 2cm thick. Pyrite content up to 10% Estimated grade 1-3% (Pb+Zn) Ribbon-banding texture more noticeable near top of interval.
						TOI - 394.5 mod. to slightly broken except for very broken & rubbly intervals @ 376-377, 390.5-392 // 394.5-EOI very broken and rubbly. Recovery good throughout. Slightly softer than typical 4C since nail will slightly scratch lithology.
	131918 2	141114 7		1412	14D15	
		126 4				Hard, CS2-foliated, noncalcareous qtzite S2 surfaces are shiny black to dark silvery grey Cut surface is pale grey when dry and medium dark grey when wet. S2 and S1 foliation is defined by carbonaceous laminae/stringers. Poorly distinguished ribbon-banding texture visible w/ slightly lighter colored qtz-pyrite-sphalerite compositional bands. Ribbon banding parallel S1 and S2. Pyrite content 1-5%. Estimated grade 5-6% (Pb+Zn) Commonly unit can be barely scratched by nail with difficulty.
						TOI - 402 core slightly broken w/ good recovery // 402 - EOI Alternating slightly broken & mod. broken + med. poker chippy intervals. Recovery good No breaks.

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Code	From	To	Recov.	No.	Unit	Description
1	10 14	16 20	22 24	26 28	30 34	35
	4114 7	4118 0		43	5D41$	9 (4D53 ± 4) 60:40
		127 4				Soft, PS2-foliated, pale tan to olive, dolomitic muscovite ± chlorite phyllite. S2 surfaces are pale silvery green to tan. Contains coarse dolomite-qtz veins, - locally w/ sulphides. Interbanded w/ metabasite is hard, pale grey, pyritic qtzite. Cut surface is medium grey when wet. Pyrite content 40%. Estimated grade 6-12% depending on location. Marginal contacts w/ metabasite are sharp parallel S1 which is locally parallel S2. Core mod. brken w/ good recovery.
	4118 0	4219 9		44	4C5	
		131 0				Hard, noncalcareous, pyritic qtzite. S2 surfaces are silvery grey. CS2-foliated. Pyrite disseminated in in pale grey qtz-pyrite compositional bands. Pyrite-sphalerite-carbon concentrated on S2 pressure soln stripes. Below 425.5 feet qtzite is slightly lighter-coloured & slightly softer. S2 pressure soln stripes slightly thicker and are very micaceous. Sphalerite also disseminated w/ pyrite in this interval. Core moderately brken w/ good recovery. Pyrite content 5%. Estimated grade 1-4% (Pb+Zn)
	4219 9	4410 0		45	5B6219	[3G029]
		134 1				Moderately soft, PS2-foliated, noncalcareous, dark grey phyllite. S2 surfaces are silvery grey to steely grey and do not mark fingers. Locally has thin qtz siltstone bands up to 3 cm thick. Typically the siltstones contain minor interstitial pyrite. These siltstones commonly define S1 microlithons. Core mod brken and mod poker chippy.
	4410 0	4412 3		46	4A01	[4C5]
		134 8				Hard, noncalcareous, dark grey, PS2-foliated, pyritic qtzite. S2 surfaces are dark steely

DDH BIG-11-5 (2 of 8)

CURRAGH RESOURCES INC.
Lithologic Log

Date: Sept 7/89 Logged By: LLP

Code	From	To	Recov.	No.	Unit	Description
1	10 14	16 20	22 24	26 28	30 34	35
		141412 3		1416		grey. Abundant pale grey qtz-pyrite ribbons separated by thin carbonaceous foliation-pressure soln stripes.
						Entire interval extensively disrupted & broken on late steep fractures w/ orientation 10/330 wrt S2. Core very broken and rubbly. Recovery OK. Slightly porous on late fractures.
	141412 3	141516 6		1417	5TB16121	9 MINOR [3G 26 MINOR]
		139 2				Moderately soft, PS2-foliated, medium dark grey, noncalcareous phyllite. S2 surfaces are dark silvery grey. Contains minor thin qtz-pyrite veinlets which are folded by D2 deformation. Upper and lower contacts appear gradational over short interval. Core moderately broken w/ good recovery. Moderately poker chippy.
	141516 6	141717 0		1418	131G101	[5B6]
		145 4				Soft, noncalcareous, PS2-foliated to poorly CS2-foliated, medium grey phyllite. S2 surfaces are streaky grey to silvery grey. Locally core see thin siltstones forming "fold hook" microlithons within micaceous matrix. Typically siltstones have orange-brown spots from pyrite (?) or reactive carbonate (?). This gives unit a yellowish tinge on cut surface from the weathering. Distinguished from greywacke unit by slightly lighter colour and by more B2-folded character.
						TOI-465.0 core slightly to moderately broken w/ good recovery. //465-EOI core very broken w/ local rubble and mud gouge intervals. Gouges are 10-20 cm thick. Does not look like major faults. At 466 upper gouge contact along fracture w/ orientation 35/070 wrt S2. Lower contact is conjugate fractures 30/240, 25/?? wrt S2. At 473 lower contact of gouge 30/000 wrt S2.

DDH 89-G-15
2 8

CURRAGH RESOURCES INC.
Lithologic Log

Date: Sept 10/89 Logged By: LCP

Code	From	To	Recov.	No.	Unit	Description
1	10 14	16 20	22 24	26 28	30 34	35
	141717 0	141812 0 146 9		1419	15|G|41$	Moderately soft to moderately hard, poorly CS2-foliated, pale beige, muscovite-dolomite-qtz phyllite. Cut surface weathers to an orange-tan. Contains S1 microboudinaged fold hinges between S2 pressure solution stripes. S2 surfaces are silvery white to silvery tan. Core mod. broken to very broken w/ short rubble zones. No major faults. Recovery good
	141812 0	141817 0 148 4		1510	1G|0|U|G	E (3G0) Grey mud gouge. Noncalcareous. Contains short intervals of rock which is pale grey, PS2-foliated, noncalcareous phyllite. S2 surfaces are silvery grey. Cut surface weathers with a pale yellow coating. Gouge contains fragments/clasts of pegmatitic white qtz veins. Upper contact of gouge is qtz vein crudely parallel S2. Lower contact has internal fractures w/ orientation 35° wrt core axis. Recovery OK
	141817 0	151122 156 1		1511	13|G|01	(4L124) (5D4$) 50:30:20 Mixture of rock types w/ broken core. Banding generally on scale of 50cm or higher. Dominant rock type is soft, PS2 foliated, noncalcareous, pale grey phyllite. S2 surfaces are silvery grey. Cut surface weathers w/ a faint yellow tinge. Contains interbands of pale creamy, muscovitic, noncalcareous phyllite. S2 surfaces are silvery white. Thin have thin siliceous bands parallel S2 w/ disseminated sulphides. Sulphides include pyrite ± sphalerite. Sulphides look interstitial around qtz grains. Estimated grade 1-3% (Pb+Zn). Total sulphides 30-50%. Final interbanded rock type is soft, PS2-foliated, pale beige muscovite-qtz-dolomite phyllite. S2 surfaces are silvery white. Total interval very broken & rubbly w/ local gouges. Recovery OK. Gouge 1-10 cm thick

DDH 89G-15
2 8

CURRAGH RESOURCES INC.
Lithologic Log

Date: Sept 11/89 Logged By: LLP

Code	From	To	Recov.	No.	Unit	Description
1	10 14	16 20	22 24	26 28	30 34	35
	5112 2	5114 7 156 9		52	4A01	±4 Hard, dark grey, noncalcareous, pyritic qtzite. S2 surfaces are shiny black and slightly to moderately mark the fingers. Ribbon banded w/ thin pale grey qtz-pyrite ribbons. In lowermost 1/3 of interval ribbon banding is extremely sulphide-rich pyrite-sphalerite-quartz ribbon banding. Total grade 4-5% (Pb+Zn) averaged over intvl. Core very brken and rubbly. No gouges. Difficult to see structure because just looking at angular fragments of core. Contains abundant xcutting white tension gashes/fractures infilled w/ white qtz. Angles wrt core of 40° (white qtz fractures) and 20° (open fractures). Recovery seems OK. 514-517 has 1.8 feet core - much reground/redrilled core at end of interval. Possible core loss there.
	5114 7	5220 159 1		54	5C417	$ (5A96 ± 1 ±4) 70:30 Soft, CS2-foliated, slightly dolomitic, pale grey, muscovite-qtz-dolomite-chlorite phyllite. Striped appearance w/ micaceous laminae & bands separated by pale grey carbonate bands. S2 surfaces are pale silvery white. Unit contains interbands of moderately soft to locally hard, CS2-foliated, noncalcareous, black phyllite. S2 surfaces are shiny black. Contains thin, medium grey siltstone bands. Also has thin qtzose bands w/ disseminated reddish sphalerite or brassy pyrite. Locally unit is bleached adjacent to metabasite. Approaches 4A in ribbon-banded texture but never hard enough to be truly considered a qtzose ore. Marginal contacts w/ 5C are sharp, parallel S1. Metabasite has well developed S1 compositional banding which is folded during D2. TOI-517 very brken & rubbly w/ some possible core loss (see unit above) // 517-519.3 mod. to very brken w/ good recovery // 519.3-522 (=EOI). Mud gouge w/ some rubble. Pieces of qtzose rock in mud gouge. Gouge dominantly 5C4 muscovite phyllite. Interval 517-522 has 4 feet core - loss probably in this last interval.

DDH 8.9.G-1.5
2 8

CURRAGH RESOURCES INC.
Lithologic Log

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Date: Sept 11/89 Logged By: LCP

Code	From	To	Recov.	No.	Unit	Description
1	10 14	16 20	22 24	26 28	30 34	35
	5222 0	5225 0 160 0		55	4A34	4 ± BXA
						Hard, noncalcareous, microbuckshot pyritic sulphides. Contains thin interbands of dark grey carbonaceous qtzite. S2 surfaces are shiny black and slightly mark the fingers. Minor interstitial qtz also present within the sulphides. Subangular pyrite grains floating within matrix of fine reddish brown sphalerite. In lowermost 0.5 feet of unit have angular clasts of 4A carbonaceous qtzite within sulphide-rich matrix. Clasts are up to 3 cm across. S2 fabric randomly oriented. Reddish sphalerite concentrated on margins of clasts and refilling fractures within clasts. Estimated grade 20% (Pb+Zn). Sphalerite >> pyrite locally. Overall pyrite content about 60-70%.
						Core very broken and rubbly. Recovery looks OK.
	5225 0	5337 3 163 8		56	5A61	9 (4A0±4)(5D4 $) 60:40: TRACE
						Very dark grey to black, noncalcareous, moderately hard to hard, PS2-foliated phyllite. S2 surfaces are shiny black and slightly mark the fingers. Grades back and forth between siliceous phyllite and qtzite. Contains thin medium grey qtzose ribbon-banding w/ disseminated sphalerite ± pyrite. Banding generally parallel S2. Contains a few thin interbands of pale tan, soft, slightly dolomitic, PS2-foliated muscovite phyllite. S2 surfaces are silvery white. Marginal contacts are sharp parallel S1. Generally 2-10 cm thick. Estimated grade 3-4% (Pb+Zn) overall.
						TOI-530 very broken and rubbly w/ incipient gouge - Gouge mainly in interval 529-530. Only 4.0 feet core in interval 524.5-530 // 530-EOI very broken. No gouges - recovery OK
						Transitional & gradational unit between 4A lithology and 5A19 lithology.

DDH 89G-11.5
2 8

CURRAGH RESOURCES INC.
Lithologic Log

Date: Sept 11/89 Logged By: LCP

Code	From	To	Recov.	No.	Unit	Description
1	10 14	16 20	22 24	26 28	30 34	35
	151317 3	151415 5 166 3		157	151D141$	(4A4 X 4D0) 90: 08:02 Majority of unit is soft, PSZ-foliated, slightly dolomitic, pale olive to beige-tan chlorite-muscovite phyllite. SZ surfaces are silvery green or silvery white depending on whether dominant mica is chlorite or muscovite. Contains thin white qtz-dolomite veinlets parallel SZ. More altered portions of unit weather to orange tan. Marginal contacts are sharp, parallel SZ Bottom 0.8 feet is qtz-carbonaceous, PSZ-foliated vn Dark grey, ribbon-banded qtz vein. Estimated grade about 6-8% (Pb+Zn) Thinly striped parallel SZ. Uppermost 2 inches against 5D metabasite is bleached to a pale grey to off white. Core mod. broken w/ good recovery.
	151415.5	151712 0 174 3		158	5A1$191	±1 (5D4$) TRACE Dominantly a PSZ-foliated, very dark grey to black, generally soft, slightly dolomitic phyllite. SZ surfaces are shiny black and moderately weak fingers locally hard and slightly lighter grey-weathering in those intervals. Dolomite associated w/ qtz in thin qtz-carb siltstone bands. Sulphides dominantly pyrite. Both disseminated in small shreaks parallel SZ and locally in larger concretions (?) up to 10 cm across. At EOI have 1 foot interval of soft, PSZ-foliated, pale tan, slightly dolomitic muscovite phyllite. SZ surfaces are pale silvery tan. Contains the occasional bright green "fuchsite" shreak in SZ foliations. Core is in abysmal shape. TOI-546.5 mud gauge - apparently parallel SZ // 546.5-559.5 very broken & rubbly, very poker chippy 546.5-552 only 2.9 feet core, 552-555 only 1.8 feet core, 555-560.5 only 3.1 feet core // 559.5-560.5 black mud gauge - possible core loss // 560.5-EOI very broken and very poker chippy 560.5-564.5 has 1.7 feet core, 564.5-570 has 4 feet core Recovery OK 570-572 EOH

DDH 89-6-15 (2 – 8)

CURRAGH RESOURCES INC.
Structural Log

Page 1 of 1

Date: July 24/89 Logged By: A. Reznik

Code (1)	From (10–14)	To (in meters) (16–20)	Feature (22–24)	Sym (26)	S_0 Dip (28–32)	S_0 Direct. (28–32)	S_1 Dip (34–38)	S_1 Direct. (34–38)	S_2 Dip (40–44)	S_2 Direct (40–44)	Description
		149	CS2	Z			52	230	68		micaceous fltns & comp banding are present.
		235	CS2	S			22	013	40		" " "
		277	RS2	–			T	T	49		" " "
		351	RS2	–			T	T	57		comp banding present. S_2 defined by thin micaceous band
		433	CS2	S			12	307	62		" " "
		468	RS2	–			T	T	51		comp banding present. S_2 defined by thin chlorite band
		564	CS2	Z			47	T	78		" " "
		622	CS2	S			36	045	61		" " "
		632	RS2	–			T	T	73		micaceous fltns present.
		733	RS2	–			T	T	82		" " "
		750	RS2	–			T	T	65		S_2 defined by Sph & Py bands
		838	CS2	S			18	338	68		" " " " & micaceous fltns present.
		866	CS2	S			17	062	64		[illegible]
		945	RS2	–			T	T	51		S_2 defined by micaceous bands comp banding present.
		1009	CS2	S			20	025	76		S_2 defined by Sph & Py bands comp banding present
		1083	CS2	S			23	020	82		" " "
		1139	CS2	Z			19	227	68		" " "
		1163	CS2	Z			42	244	62		" " "
		1225	CS2	S			13	011	73		" " "
		1283	CS2	S			32	024	56		" " "
		1362	RS2	–			T	T	71		S_2 defined by Py & thin micaceous fltns.
		1390	CS2	S			34	018	63		micaceous fltns present.
		1466	RS2	–			T	T	86		S_2 defined by thin micaceous banding.
		1500	CS2	M			01	T	67		" " "
		1618	RS2	–			T	T	68		S_2 defined by thin laminations & Sph & Py banding.
		1646	RS2	–			T	T	65		S_2 defined by thin micaceous band
											i.e. compostnl banding
											present.
		1742	RS2	–			T	T	70		S_2 defined by thin
											micaceous laminations
					T	EOH	T				

DDH 89G-15 CURRAGH RESOURCES INC. Page 1 of 2

Logged by LCP

ASSAY LOG (SAMPLER'S COPY) Date _____ Sampled by _____

CODE	FROM	TO	SAMPLE	INTR.	REC (m)	UNIT	DESCRIPTION
1	10 0 14	16 74.23 20	22 — 0 — 26	28 — 30	32 — 34	36 WASTE 40	42
	74.3 1243 9	75.3 1247 0	37164	31	0.9 31	4A4	
	1247 0	76.1 1249 6	37165	26	0.8 26	4A4	
	1249 6	77.2 1253 3	37166	37	1.1 37	4A0	
	1253 3	78.7 1258 3	37167	50	1.5 50	4A0	
	1258 3	80.2 1263 0	37168	47	1.4 47	4A0	
	1263 0	81.0 1265 8	37169	28	0.9 28	4A0	
	1265 8	82.4 1270 3	37170	45	1.4 45	4A4	
	1270 3	84.0 1275 5	37171	52	1.6 51	4A4	
	1275 5	85.1 1279 1	37172	36	1.1 36	4D5	
	1279 1	86.7 1284 4	37173	53	1.6 53	4D0	(5C746)
	1284 4	88.0 1288 8	37174	44	1.3 44	4D0	CHLORITIC (5C7$)
	88.0	91.7	— 0 —	—	—	WASTE	
	91.7 1300 8	92.5 1303 4	37175	26	0.8 26	4D0	
	1303 4	93.8 1307 6	37176	42	1.3 42	4A4	
	1307 6	95.3 1312 7	37177	51	1.6 51	4D0	(5D46 ± $)
	1312 7	96.8 1317 6	37178	49	1.3 44	4AC	
	1317 6	97.9 1321 1	37179	35	1.1 35	4AC	
	1321 1	98.8 1324 2	37180	31	0.8 25	5C46	
	1324 2	99.7 1327 2	37181	30	0.9 30	4A4	
	1327 2	100.6 1330 1	37182	29	0.9 29	4A4	
	1330 1	102.0 1334 7	37183	46	1.4 46	4C5	
	1334 7	103.3 1338 8	37184	41	1.2 41	4C5	
	1338 8	104.6 1343 2	37185	44	1.3 44	5B61	9
	104.6	113.1	— 0 —	—	—	WASTE	
	113.1 1371 0	113.7 1373 0	37186	20	0.6 20	5A61	9
	1373 0	115.3 1378 2	37187	52	1.6 52	4C5	
	1378 2	116.9 1383 4	37188	52	1.6 52	4C5	
	1383 4	118.5 1388 8	37189	54	1.6 54	4C5	
	1388 8	119.9 1393 4	37190	46	1.4 46	4C5	
	1393 4	121.4 1398 2	37191	48	1.5 48	4C5	
	1398 2	122.5 1402 0	37192	38	1.2 38	4D5	
	1402 0	124.1 1407 0	37193	50	1.5 50	4D5	
	1407 0	125.0 1410 1	37194	31	0.9 31	4D5	
	1410 1	126.4 1414 7	37195	46	1.0 34	4D5	
	1414 7	127.4 1418 0	37196	33	1.0 33	4D5	5D4$
	1418 0	128.6 1422 0	37197	40	1.2 40	4C5	

DDH 89G-115 (2 8) CURRAGH RESOURCES INC. Page 2 of 2

Logged by LCP

ASSAY LOG (SAMPLER'S COPY) Date Sept 11/89 Sampled by

CODE	FROM	TO	SAMPLE	INTR.	REC (m)	UNIT	DESCRIPTION
1	10 14	16 20	22 26	28 30	32 34	36 40	42
	141.20	141.59	371918	139	1.39	141C15	
	141.59	142.05	371919	136	1.36	141C15	
	142.05	143.41	———	—	—	WASTE	
	143.41	143.42	372010	123	0.23	141A1C	
	143.42	151.56	———	—	—	WASTE	
	151.56	151.72	372011	125	0.16	141A101	±4
	151.72	151.91	372012	173	1.65	151C141	/5A96
	151.91	152.05	372013	130	0.93	141A134	4
	152.05	153.10	372014	150	1.34	141A11	
	153.10	153.25	372015	132	1.03	141A11	5A
	153.25	153.73	372016	141	1.73	141A11	/5A
	163.38	174.33	———	—	—	WASTE	
							EOH

C.R.I. 1987 E-5

PROJECT _____ DRILLHOLE NO. DDH 89 G15 COORDINATES: N _____ DATE Jul 4/8 1989

LOCATION _____ HOLE SIZE _____ E _____ PAGE 1 of 5

LOGGER A. Brazil INCLINATION _____ ELEVATION _____

PITEAU & ASSOCIATES
GEOTECHNICAL CONSULTANTS
VANCOUVER CALGARY

GEOTECHNICAL CORE LOG

DEPTH (TO)	LENGTH OF RUN	CORE RECOVERY		RQD		HARDNESS	DEGREE OF BREAKAGE		DEGREE OF WEATHERING	ROCK TYPE	BEDDING DIP		BEDDING JOINTS		CROSS JOINTS		(m) depth	COMMENTS	(cm) length of run
		LENGTH	length (m)	LENGTH	length (m)		CATEGORY	NO.			DEPTH	ANGLE	NO.	FREQ.	NO.	FREQ.			
16	CASING																4.9		
22	6	.9	.3	0	0		6		D							0	6.7		1.8
27	5	1.5	.5	0	0		5		D							0	8.2		1.5
30	3	.5	.2	0	0		6		D							0	9.1		.9
33.6	3.6	2.7	.8	0	0		6		D							0	10.2		1.1
35.6	2.0	1.8	.5	0	0		6		D							0	10.9		.6
39.6	4.0	1.7	.5	0	0		6		E							1	12.1		1.2
42	2.4	1.1	.3	0	0		6		E							0	12.8		.7
47	5	.8	.2	0	0		6		E							0	14.3 Mislatch		1.5
49	2	.6	.2	0	0		6		E							0	14.9 Mislatch		.6
54	5	5	1.5	1.7	.5		7		E							1	16.5		1.5
59.6	5.6	3.2	1.1	.7	.2		7		F							0	18.2		1.7
65	5.4	4	1.2	0	0		7		F							1	19.8		1.7
70	5	2.9	.9	.4	.1		6		E							0	21.3		1.5
72	2	2	.6	0	0		5		E							2	21.9		.6
76.6	4.6	4.4	1.4	.8	.2		9		F							0	23.3		1.4
81.6	5	5	1.5	.6	.2		9		E							1	24.9		1.5
87.6	5	4.8	1.5	.35	.1		7		F							1	26.7		1.5
92	4.4	4	1.2	0	0		6		E							1	28.0		1.4
97	5	1.6	.5	0	0		1		D							0	29.6		1.5
102	5	1.2	.4	0	0		1		D							0	31.1		1.5
107	5	1.6	.5	0	0		2		D							0	32.6		1.5
111	4	2.5	.8	0	0		1		D							0	33.8		1.2
115	4	2.6	.8	0	0		1		D							0	35.1		1.2
120.6	5.6	5.4	1.7	1.1	.3		8		F							6	36.8		1.7
125.6	5	5	1.5	25	.8		9		F							0	38.3		1.5
131	5.4	5.4	1.7	1.0	.3		9		F							3	39.9		1.7
136	5	5	1.5	1.2	.4		8		F							0	41.5		1.5

Fig. 1. Typical rock mechanics core log.

PROJECT _____ DRILLHOLE NO. DDH 89.6-15 COORDINATES: N _____ DATE July 18 1989

LOCATION _____ HOLE SIZE _____ E _____ PAGE 2 of 5

LOGGER A. Reznik INCLINATION _____ ELEVATION _____

PITEAU & ASSOCIATES
GEOTECHNICAL CONSULTANTS
VANCOUVER CALGARY

GEOTECHNICAL CORE LOG

DEPTH (TO)	LENGTH OF RUN	CORE RECOVERY		RQD		HARDNESS	DEGREE OF BREAKAGE		DEGREE OF WEATHERING	ROCK TYPE	BEDDING DIP		BEDDING JOINTS		CROSS JOINTS		(m) depth COMMENTS	(cm) length of run
		LENGTH	length (cm)	LENGTH	length (cm)		CATEGORY	NO.			DEPTH	ANGLE	NO.	FREQ.	NO.	FREQ.		
141.6	5.6	5.1	1.5	0	0		6		E							1	43.1	1.7
146	4.4	4.4	1.4	1.35	.4		6		E							0	44.5	1.4
151.5	5.5	4.8	1.5	.35	.1		7		F							1	46.2	1.7
156.5	5	5	1.5	2.55	.8		10		F							2	47.7	1.5
161.5	5	5.3	1.6	1.45	.4		8		F							1	49.2	1.5
171.5	10	2.6	.8	.8	.2		7		F							1	52.3	3
176.5	5	5	1.5	.85	.3		8		F							1	53.8	1.5
181.5	5	4.3	1.3	0	0		6		F							3	55.3	1.5
187	5.5	5.4	1.7	0	0		6		F							1	57	1.7
192	5	5.2	1.6	0	0		6		F							0	58.5	1.5
197	5	4.9	1.5	1.45	.4		7		F							1	60.0	1.5
202	5	5.4	1.7	.5	.2		7		F							0	61.6	1.5
207	5	5.4	1.7	2.35	.7		10		F							0	63.1	1.5
212	5	5	1.5	.9	.3		8		F							2	64.6	1.5
217	5	4.2	1.3	0	0		6		F							1	66.1	1.5
222	5	5.5	1.7	1.6	.5		7		F							0	67.7	1.5
227	5	5.1	1.5	1.4	.4		7		F							1	69.2	1.5
232	5	5.3	1.6	.5	.2		7		F							2	70.7	1.5
235	3	2.8	.9	0	0		6		F							0	71.6	.9
240	5	5	1.5	.8	.2		7		F							0	73.2	1.5
245	5	5	1.5	1.5	.5		9		F							2	74.7	1.5
250	5	5	1.5	2.7	.8		9		F							2	76.2	1.5
255.6	5.6	5.5	1.7	1.8	.5		8		F							3	77.9	1.7
261	5.4	5.2	1.6	1.1	.3		9		F							2	79.6	1.7
266.6	4.6	5.0	1.5	1.4	.4		9		F							2	81.0	1.4
270	4.4	5.6	1.7	0	0		7		F							3	82.3	1.4
275.6	5.6	5.3	1.6	1.0	.3		7		F							1	84.0	1.7
281	5.4	5.2	1.6	3.05	.9		9		F							0	85.6	1.7

Fig. 1. Typical rock mechanics core log.

PROJECT _____ DRILLHOLE NO. DDH89615 COORDINATES: N _____ DATE July 18 1989

LOCATION _____ HOLE SIZE _____ E _____ PAGE 3 of 5

LOGGER A. Rezvit INCLINATION _____ ELEVATION _____

PITEAU & ASSOCIATES
GEOTECHNICAL CONSULTANTS
VANCOUVER CALGARY

GEOTECHNICAL CORE LOG

DEPTH (TO)	LENGTH OF RUN	CORE RECOVERY		RQD		HARDNESS	DEGREE OF BREAKAGE		DEGREE OF WEATHERING	ROCK TYPE	BEDDING DIP		BEDDING JOINTS		CROSS JOINTS		(m) depth COMMENTS	(m) length of run
		LENGTH	length (cm)	LENGTH	length (cm)		CATEGORY	NO.			DEPTH	ANGLE	NO.	FREQ.	NO.	FREQ.		
286	5	5.2	1.6	3.8	1.2		11		F							0	87.2	1.5
291	5	5	1.5	2.65	.8		9		F							0	88.7	1.5
296	5	5	1.5	1.2	.4		8		F							1	90.2	1.5
301.6	5.6	5.3	1.6	3.5	1.1		11		F							0	91.9	1.7
307	5.4	5.5	1.7	1.2	.4		7		F							2	93.6	1.6
312	5	5.0	1.5	2.9	.9		11		F							0	95.1	1.5
316	4	3.2	1.0	0	0		6		F							2	96.3	1.2
321	5	5	1.5	0	0		6		F							1	97.8	1.5
330	9	5.6	1.7	1.3	.4		7		F							1	100.6	2.7
335	5	5.0	1.5	.9	.3		9		F							1	102.1	1.5
340	5	5	1.5	2.1	.6		9		E							0	103.6	1.5
345.6	5.6	5.4	1.6	0	0		7		F							2	105.3	1.7
351	5.4	4.1	1.2	0	0		6		F							1	107	1.6
356	5	5	1.5	0	0		7		F							1	108.5	1.5
360	4	3.15	1.0	0	0		1		F							0	109.7	1.2
365.6	5.6	5.55	1.7	0	0		6		D							0	111.4	1.7
369	2.4	1.5	1.7	0	0		2		F							0	112.2	.7
371	3	1.5	1.7	0	0		1		F							0	113.1	.9
376.6	5.6	5.6	1.7	0.4	.1		6		E							1	114.8	1.7
381.6	5	5.0	1.5	0	0		7		F							0	116.3	1.5
387	5.4	5.4	1.6	185	.6		9		F							2	118.0	1.6

Fig. 1. Typical rock mechanics core log.

PROJECT _____ DRILLHOLE NO. 89-6-15 COORDINATES: N _____ DATE July 19 19__

LOCATION _____ HOLE SIZE _____ E _____ PAGE 4 of 5

LOGGER A. Reznik INCLINATION _____ ELEVATION _____

PITEAU & ASSOCIATES
GEOTECHNICAL CONSULTANTS
VANCOUVER CALGARY

GEOTECHNICAL CORE LOG

DEPTH (TO)	LENGTH OF RUN	CORE RECOVERY		RQD		HARDNESS	DEGREE OF BREAKAGE		DEGREE OF WEATHERING	ROCK TYPE	BEDDING DIP		BEDDING JOINTS		CROSS JOINTS		depth (cm) COMMENTS length of run (cm)	
		LENGTH	length (cm)	LENGTH	length (cm)		CATEGORY	NO.			DEPTH	ANGLE	NO.	FREQ.	NO.	FREQ.		
392	5	5	1.5	0.75	.2		6		F						2		119.5	1.5
397	5	5	1.5	1.85	.6		7		E						2		121	1.5
402	5	5	1.5	0.4	.1		6		F						2		122.5	1.5
407	5	5	1.5	0.85	.3		7		F						3		124.1	1.5
412	5	5	1.5	1.45	.4		8		F						1		125.6	1.5
417	5	5	1.5	1.15	.4		9		F						3		127.1	1.5
422	5	4.95	1.5	2.8	.8		10		F						0		128.6	1.5
427	5	5	1.5	1.2	.4		9		F						3		130.1	1.5
432	5	5	1.5	0.5	.2		8		F						2		131.7	1.5
437	5	5	1.5	1.6	.5		9		F						1		133.2	1.5
441	4	3.7	1.1	0.7	.2		7		E						1		134.4	1.2
447	6	5.5	1.7	0.35	.1		7		E						2		136.2	1.8
450.5	6.5	3.7	1.1	0	0		6		E						1		137.3	2.0
456	5.5	5.2	1.6	1.4	.4		8		F						0		139	1.7
461	5	5	1.5	2.65	.8		9		F						1		140.5	1.5
466	5	5	1.5	0.8	.2		9		F						3		142.0	1.5
471	5	5	1.5	0	0		6		D						1		143.6	1.5
476	5	5	1.5	0	0		7		F						3		145.1	1.5
481.5	5.5	5.5	1.7	0.4	.1		7		F						3		146.8	1.7
487	5.5	5.2	1.6	1.05	.3		9		E						1		148.4	1.7
491	4	4	1.2	0	0		7		F						3		150	1.2
497	6	5.9	1.8	0	0		7		F						2		151.5	1.8
499	2	1.9	.6	0	0		6		F						1		152.1	.6
504	5	5	1.5	0.7	.2		8		F						7		153.6	1.5
509	5	5	1.5	0.5	.2		7		F						3		155.1	1.5
514	5	4	1.2	0.5	.2		6		F						1		156.7	1.5
517	3	2.1	.6	0	0		5		E						0		157.6	.9
522	5	4	1.2	0	0		7		D						3		159.1	1.5

Fig. 1. Typical rock mechanics core log.

PROJECT _____ DRILLHOLE NO. 89-G-15 COORDINATES: N _____ DATE July 19 1989

LOCATION _____ HOLE SIZE _____ E _____ PAGE 5 of 5

LOGGER A. Reznik INCLINATION _____ ELEVATION _____

PITEAU & ASSOCIATES
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VANCOUVER CALGARY

GEOTECHNICAL CORE LOG

DEPTH (TO)	LENGTH OF RUN	CORE RECOVERY		RQD		HARDNESS	DEGREE OF BREAKAGE		DEGREE OF WEATHERING	ROCK TYPE	BEDDING DIP		BEDDING JOINTS		CROSS JOINTS		(cm) depth COMMENTS	(cm) length of run
		LENGTH	length (cm)	LENGTH	length (cm)		CATEGORY	NO.			DEPTH	ANGLE	NO.	FREQ.	NO.	FREQ.		
524.6	2.6	2.5	.8	0	0		6		F						3		160	.8
530	5.4	4.1	1.2	0	0		6		E						4		161.5	1.6
535.6	5.6	5.6	1.7	0.35	.1		8		F						2		163.3	1.7
541	5.4	5.4	1.6	1.5	.5		9		F						2		164.9	1.6
546.6	5.6	5.2	1.6	0	0		7		F						2		166.6	1.7
552	5.4	5.4	1.6	0	0		5		E						0		168.2	1.6
555	3	2	.6	0	0		6		E						0		169.2	.9
560.6	5.6	3.1	.9	0	0		6		E						0		170.9	1.7
564.6	4	1.8	.5	0	0		5		E						0		172.1	1.2
570	5.4	4.2	1.3	0	0		6		E						2		173.7	1.6
572	2	2	.6	0	0		6		F						2		174	.6
		-	EOH															

Fig. 15 Typical rock mechanics core log.

89-G-16

CURRAGH RESOURCES INC.

Page 1 of ____

DIAMOND DRILL CORE LOG

Date: _____

Hole Number: 896-16

Reference Fabric Orientation Diagram:

Project: 1989 GRUM FILL-IN

Location: _____

Claim: _____

UTM ~~Terr~~. Plane Co-ords.: 6905 278.470 N 6,758.60 N

592 068.991 E 2,789.32 E

Grid Co-ords: 86W / 6N

Elevation: 1305.643

All symmetry determinations looking

Total Depth: 635 feet

_____ with _____ dipping

Inclination: -65° TO NE

_____ with dip azimuth _____.

Purpose: _____

Reason hole Terminated: _____

Logged by: _____

Date(s) Logged: _____

Drilling Contractor: ARCTIC

Size	CORE From	To
NW	0	10 feet
NQ	8	635 feet

Collar Cased and Capped: No

Hole Cemented: No

Steel down Hole: No

Assay Lab: _____

Certificate No's: _____

Started: July 19/89 Completed: July 21/89

CURRAGH RESOURCES INC.

Diamond Drill Core Log

DDH _____ (2 – 8)

Date: _____ Logged By: _____

Code	Drillhole (2–8)	Elevation (10–16)	Northing (17–24)	Easting (25–32)	Units (feet/metres) (34–39)	R.F.E. (41–42)	
I							
T							

FEET

Code	Drillhole (2–8)	Depth (10–14)	Zenith Angle (22–26)	True Azimuth (28–32)	Comments (34–56)
I					
R	8191G-1/161	10	-1651.0	0941.0	AT COLLAR
R	8191G-1/161	13212	-1701.0	0161.0	SPERRY SUN
R	8191G-1/161	14712	-1731.0	0161.0	SPERRY SUN
R	8191G-1/161	16212	-1721.5	0161.0	SPERRY SUN
R			.	.	
R			.	.	
R			.	.	
R			.	.	
R			.	.	
R			.	.	
R			.	.	
R			.	.	
R			.	.	
R			.	.	
R			.	.	
R			.	.	
R			.	.	
R			.	.	
R			.	.	
R			.	.	
R			.	.	
R			.	.	
R			.	.	

Code	Drillhole (2–8)	Comments, Errant Remarks, Snivellings and / or Lewd Suggestions (10–56)
I		

DDH 89G-16 (2–8 FEET)

CURRAGH RESOURCES INC.
Lithologic Log

Page 3

Date: Aug 14/89 Logged By: LCP

Code	From	To	Recov.	No.	Unit	Description
1	10–14	16–20	22–24	26–28	30–34	35
	0 0	8 0		1	#	TRICONED – NO RECOVERY
		2 4				
	8 0	4 6 0		2	5B07	(5D0) 95:05
		14 0				Interval 11.5–14.5 consists largely of soft, pale olive, PS2-foliated, calcareous chlorite phyllite. Diffuse compositional banding parallel S1 defined by variations in calcite content. Also contains white qtz-calcite veinlets. S2 surfaces are "gritty" olive green. Does contain minor interbands of 5B70 – very micaceous pale green, thinly banded phyllite.
						Most of unit is calcareous, CS2-foliated, pale grey, soft phyllite. S2 surfaces are silvery grey. S1 microlithons poorly defined by thin white calcite-qtz siltstone bands or laminae. Cut surface has faint medium green tinge when wet. Siltstone bands are up to 2cm thick – commonly they are bounded by micaceous pressure soln. stripes.
						TOI-35.5 Core mod. to very poker chippy. No gouges. Recovery OK
						35.5-EOI Core very poker chippy to rubbly. Reground core @ 36.5' and 46'. Only 3.5 feet core recovered.
	4 6 0	5 8 0		3	5B$	(5D4$) MINOR
		17 7				Pale to medium gray, soft, CS2-foliated, thinly banded phyllite. S2 surfaces are silvery grey to light steely grey. Contains thin, pale grey qtz-dolomite siltstone compositional bands which weather to a very pale tan. Dolomite also as thin fracture infillings for steep fractures at very low angle to core axis. Minor thin (< 5cm) pale tan, slightly dolomitic, PS2-foliated, homogeneous muscovite-dolomite phyllite. Marginal contacts are sharp, parallel S1. S2 surfaces are silvery tan.
						TOI-48.5 mod. broken w/ good recovery // 48.5-49.0 very broken & rubbly w/ good recovery // 49-52 very broken w/ local rubble – only 2 feet core // 52-EOI mod. broken. 52-57 has 3' core.

DDH Eig06-16
2 8

CURRAGH RESOURCES INC.
Lithologic Log

Date: Aug 15/89 Logged By: LCP

Code	From	To	Recov.	No.	Unit	Description
1	10 14	16 20	22 24	26 28	30 34	35
	1518 0	1612 5 19 0		14	15B1$1	± 0
						Soft, CS2-foliated, dolomitic, thinly banded, medium grey phyllite. S2 surfaces are silvery grey. S1 microlithons defined by pale grey g/a-carbonate siltstone bands. Carbonate is dolomite and locally calcite as well (in the siltstone bands/laminae.) Siltstones are generally less than 1cm thick. Core mod. broken to slightly poker chippy w/ good recovery.
	1612 5	1716 5 23 3		15	15B1$12	
						Soft, CS2-foliated, dolomitic, thinly banded, medium dark grey phyllite. S2 surfaces are shelby grey to dark shelby grey. Unit becomes slightly darker as go down DDH. Minor smears of pyrite on S2 surfaces. Dolomite associated w/ g/a in thin compositional bands forming S1 microlithons w/in S2 foliations. Thin siltstone bands tend to weather very pale tan.
						Entire interval moderately poker chippy. 62.5-70.5 has only 2 feet core. Rest of interval has OK recovery.
	1716 5	1817 0 26 5		16	15D101$	4 (5B20$) 70:30
						Soft, pale olive tan, PS2-foliated, homogeneous muscovite-chlorite phyllite. S2 surfaces are silvery olive. Contains diffuse compositional stripes containing dolomite or calcite. Also has thin white calcite veinlets. Veinlets and compositional "bands" parallel S1. Marginal contacts sharp parallel S1. Contains thin pyrite streaks parallel S1. Tan colours and presence of dolomite suggests interval is slightly altered.
						Interbanded w/ soft, CS2-foliated, dark grey, thinly banded phyllite. S2 surfaces are dark shelby grey to shiny black and locally have thin pyrite smears on them. Thin dolomite-quartz ± calcite siltstone laminae and bands define S1 microlithons.
						Fold nose @ 76.5 feet indicates some of the interbanding is structural and

DDH 82G-116 (2 / 8)

CURRAGH RESOURCES INC.

Lithologic Log

Date: Aug 15/69 Logged By: LCP

Code	From	To	Recov.	No.	Unit	Description
1	10 14	16 20	22 24	26 28	30 34	35
						caused by D2 minor folds.
						Unit moderately to very broken. Interval 81-83 very broken. Recovery looks OK.
						At bottom of unit have 3 cm thick brec w/ orientations 48/180 wrt SZ.
						Not a major structure.
	1817 0	1915 0		17	15B1$1	(D) MINOR
		29 0				
						Soft, pale grey, PS2- to poorly CS2-foliated, thinly banded phyllite. S2 surfaces are silvery grey. S1 microlithons poorly defined by micas and very thin, pale tan-weathering, dolomitic siltstone bands. Commonly the siltstone bands are poorly preserved as fold hinges "hooks" between S2 pressure soln stripes.
						Near 92 feet have a thin band of homogeneous, pale greenish tan, PS2- foliated phyllite. S2 surfaces are silvery cream. Only indication of this rock type. About 3-5 cm thick.
						Core mod. broken w/ good recovery.
	1915 0	11615		18	15B1017	± 3
		492				
						Moderately soft, CS2-foliated, pale grey, calcareous, thinly banded phyllite. Cut surface has medium greenish tinge when wet. S2 surfaces are silvery grey. S1 microlithons defined by pale grey qtz-calcite siltstone bands up to .3 cm thick. Siltstones locally bounded by S2 pressure solutions stripes. Also locally siltstone bands are thicker and very calcareous — makes for almost interbeds of thin marble/limestone.
						TOI-126 Mod. broken w/ good recovery. Minor mod. poker chippy intervals
						126-127 Very broken & rubbly w/ incipient gouge — recovery OK
						127-144.5 Mod. poker chippy & mod. to very broken. Recovery OK
						144.5-EOI Mod. broken to slightly broken. Recovery OK.

DDH 89G-16
2 8

CURRAGH RESOURCES INC.
Lithologic Log

Date: Aug 16/89 Logged By: LCP

Code	From	To	Recov.	No.	Unit	Description
1	10 14	16 20	22 24	26 28	30 34	35
	1615	1765		9	5D01	(5B70) 70:30
		538				Mod. soft, calcareous, PS2-foliated, pale olive, homogeneous chlorite phyllite. S2 surfaces are micaceous silvery green or "silty" pale olive. Contains white qtz-calcite veinlets folded by D2. Also contains diffuse compositional bands w/ disseminated calcite — these also are subparallel S1. Qtz-calcite veinlets define several D2 fold noses.
						Contains interbands of mod. soft, poorly CS2-foliated, pale greenish grey, calcareous, thinly banded phyllite. S2 surfaces are silvery green to silvery grey. Siltstone compositional bands are poorly defined by small medium grey siltstone "fold nose "hooks" defining S1 microlithons. Marginal contacts w/ 5D are sharp parallel S1. Pelite interbands look to be up to 2 feet thick.
						TOI-164.5 mod. broken & mod. poker chippy w/ good recovery. Minor thin gouge @ 163.0 feet. lower contact parallel S2. - upper contact 50/180 wrt S2.
						164.5-EOI. slightly broken w/ good recovery.
	1765	1830		10	5B07	
		558				Mod. soft, calcareous, poorly CS2-foliated, greenish grey phyllite. S2 surfaces are silvery grey to steely grey. S1 microlithons are poorly defined by thin medium grey calcite-qtz siltstone fold nose "hooks" within S2 pressure soln. stripes. Cut surface has medium green tinge when wet. Minor scattered, irregular pyrrhotite porphyroblasts. Some crudely S2 foliaform qtz-calcite veins up to 20cm thick.
						Core mod. to slightly broken w/ good recovery
	1830	2040		11	5B70	(5D0) 60:40
		622				Interbanding of 2 lithologies which are similar making it difficult to distinguish them and assign proportions. Mod. soft, calcareous, pale green to pale olive chlorite

DDH BIG-16 (2 of 8)

CURRAGH RESOURCES INC.

Lithologic Log

Date: Aug 16/89 Logged By: LCP

Code	From	To	Recov.	No.	Unit	Description
1	10 14	16 20	22 24	26 28	30 34	35
		121014.0		111		phyllite. S2 surfaces are greenish silver and generally quite micaceous. SD distinguished by being homogeneous & more massive w/ thin qtz-calcite veinlets. SB7 distinguished by thinly banded aspect w/ small fold noses "hooks" of calcite-qtz defining S1 microlithons. Contacts between 2 lithologies locally sharp parallel S1. Also have intervals where contacts appear gradational. Lower contact of entire interval gradational to slightly grey, more carbonaceous pelite.
						TOI- 195.5 mod. to slightly broken w/ good recovery
						195.5- 199.0 mod. poker choppy w/ good recovery
						199.0- EOI mod. to slightly broken w/ good recovery
						Minor scattered pyrrhotite & pyrite as separate porphyroblasts
	121014.0	121017.3		112	1518012	(SDO) 65:35
		63.2				Thinly banded, PS2-foliated, dark grey, slightly calcareous, soft phyllite. S2 surfaces are dark steely grey. Quartz + minor calcite in thin siltstone bands parallel S2 foliation. Minor slightly porous pyrite porphyroblasts.
						lower 1/3 of interval consists of soft, PS2-foliated, calcareous, pale olive chlorite phyllite. S2 surfaces are pale silvery greens. Contains numerous thick crudely S2 foliaforms qtz-calcite veins.
						TOI- 206.2 mod. poker choppy w/ good recovery Last 0.5 feet is rubbly
						206.2- EOI mod. broken w/ good recovery Minor incipient gouge @ EOI along thin fracture parallel core axis.
	121017.3	121511.0		113	1518012	3 I 7 MINOR (SE2) TRACE
		76.5				Mod. soft to mod. hard, CS2-foliated, medium dark grey, very calcareous, thinly banded phyllite. S2 surfaces are generally steely grey. Calcite occurs w/ qtz in thin grey siltstone bands. Typically siltstones disrupted by S2 foliation so forms "lenses" which are calcareous. S1 microlithons are preserved & a cumulation algae and

DDH 89G-16
2 8

CURRAGH RESOURCES INC.
Lithologic Log

Date: Aug 17/89 Logged By: LCP

Code	From	To	Recov.	No.	Unit	Description
1	10 14	16 20	22 24	26 28	30 34	35
		2510		113		as fold hooks/hinges within S2 pressure solution stripes. Locally calcareous bands are grey, medium xlline marble. At 224 marble is very dark grey to black. Scattered, irregular pyrite and pyrrhotite porphyroblasts elongate in S2 fltn. Pyrite porphyroblasts are much more dominant. Core is darkest grey in central portion of the interval.
						TOI - 232.0 mod. to slightly brken w/ good recovery
						232.0 - EOI slightly brken to intact w/ good recovery
	2510	2600		114	5D01	(5B70) 60'40
		79 2				Again interbanded lithologies on a scale of <10cm to 50cm makes it difficult to distinguish between the rock types. S2 surfaces are pale silvery green. Soft, calcareous, generally PS2-foliated, pale green chlorite phyllite. 5D distinguished because more massive and homogeneous. 5B characterized by more laminated outcrops. Marginal contacts are sharp where visible. Often contact difficult to distinguish because appears to be parallel S2 in zone of high "strain" PS2 cluge.
						Core slightly brken w/ good recovery. Last 10cm very brken to rubbly
	2600	2643		115	5B07	
		80 6				Soft, slightly calcareous, PS2- to poorly CS2-foliated medium grey phyllite. S2 surfaces are silvery grey to steely grey. Minor, small grey siltstone bands consist of calcite-qtz. Siltstones form S1 microlithons within D2 folds - also form small foldnoses within S2 pressure solution stripes. Cut surface has medium green tinge when wet.
						Core very brken & moderately poker chippy. Recovery looks to be OK.

DDH B9G-16

CURRAGH RESOURCES INC.
Lithologic Log

Page 9

Date: Aug 17/89 Logged By: LCP

Code	From	To	Recov.	No.	Unit	Description
1	10 14	16 20	22 24	26 28	30 34	35
	2614 3	2711 5 82 8		116	5D01	(5B07) 90:10 Dominantly a soft, calcareous, PS2-foliated, pale olive chlorite phyllite. S2 surfaces are pale silvery olive. Calcite disseminated in matrix as well as being in thin calcite-qtz veinlets. Veinlets are generally subparallel S1 (i.e. folded by D2). Just below 267 have thin interband of pale greenish grey, slightly calcareous, soft pelitic phyllite. S2 surfaces are steely grey. Wet cut surface has medium green tinge showing through the grey. Top contact of 5D (TOI) parallel S2. TOI - 266.5 mod. brken w/ good recovery // 266.5 - EOI. very brken, rubbly poker chippy. Between 267-273 have only 3 feet core. — possibly some of the loss was in this upper interval.
	2711 5	2719 6 85 2		117	5B01 2	Soft, medium dark grey, PS2-foliated, slightly calcareous, thinly banded phyllite. S2 surfaces are dark steely grey. Compositional banding dominantly preserved as S2 pressure soln striping and as rare thin siltstone bands parallel S2. Siltstones dominantly qtz w/ only minor calcite. Scattered pyrite porphyroblasts. A few pyrrhotite porphyroblasts and mixed pyrite-pyrrhotite porphyroblasts. Closely spaced, faint, CS3 crenulation cluge & fine crinkle lineation visible in more micaceous S2 pressure soln stripes. TOI - 273 very brken & rubbly w/ incipient gouge @ 273 feet. May have some core loss in this interval. // 273 - EOI slightly brken w/ good recovery
	2719 6	2912 4 89 1		118	5B17 0	± 2 (5D0$) 70:30 Soft, thinly banded, poorly CS2-foliated, calcareous phyllite. S2 surfaces are generally silvery pale green to silvery grey. Calcite associated w/ qtz in thin siltstone bands, generally parallel S2 but locally forming S1 microlithons. Minor scattered, irregular pyrite porphyroblasts and pyrrhotite porphyroblasts. Locally pelitic phyllite is dark to medium dark grey and

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2 8

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Lithologic Log

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Code	From	To	Recov.	No.	Unit	Description
1	10 14	16 20	22 24	26 28	30 34	35
		2912 4		118		cut surface w/ S2 surfaces being dark steely grey. Dark grey portions near TOI. Contains several interbands of soft, pale olive, calcareous chlorite phyllite. S2 surfaces are silvery pale green. Interbands are up to 30cm thick. Locally they have diffuse compositional bands folded by D2. In many instances difficult to distinguish from 5B7. — differences mainly in olive colour and more homogeneous aspect. Where visible marginal contacts parallel S1. Locally contains small irregular dolomite rhombs. Core mod. broken w/ good recovery
	2912 4	3011 6 91 9		119	5B07 2	(5D0) TRACE Soft, slightly calcareous, PS2-foliated, medium dark grey, thinly banding phyllite. Banding delineated by thin grey qtzose siltstones up to 1cm thick. Siltstones are slightly calcareous. Typically siltstones are parallel S2 and contain isoclinal fold hinges defining S1 microlithons within S2. S2 surfaces are steely grey. Cut surface in grey w/ medium grey-green tinge when wet. Contains scattered pyrrhotite and pyrite porphyroblasts w/ pyrrhotite >> pyrite. Marginal contacts appear to be sharp. At 296 feet have three 3cm bands of soft, pale olive, homogeneous, PS2-foliated chloritic phyllite. Marginal contacts are sharp parallel S1 and contact folded by D2 minor folds leading to structural repetition of 5D unit. S2 surfaces are shiny pale olive green. Unit contains thin white qtz-calcite veinlets parallel S1 which are folded by D2. Core moderately poker chippy w/ good recovery. Near EOI (301.4) have minor incipient gouge.
	3011 6	3117 1 96 7		120	5D01	(5B70) 70:30 Similar to Units #11 ( ) and #14 ( ) with two similar lithologies interbanded on a scale of a few cm to several 10's of cms. Difficult to distinguish between these lithologies when pressing down through the DDH. Hence, the

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Code	From	To	Recov.	No.	Unit	Description
1	10 14	16 20	22 24	26 28	30 34	35
		317 1		20		proportions are approximate. Dominant unit is soft, PS2-foliated, homogeneous, calcareous, pale olive chloritic phyllite. S2 surfaces are silvery olive to pale green. Contains numerous thin white qtz-calcite veinlets defining D2 minor folds. Characterized largely by colour and more massive-homogeneous aspect.
						Contains interbands of pale grey-green to pale green, poorly CS2-foliated, slightly calcareous phyllite. S2 surfaces range from silvery pale green to silvery grey. Soft. Calcite associated w/ qtz in thin, isoclinally folded siltstone bands. Marginal contacts w/ 5D sharp where visible. No readily visible sulphides. Distinguished from 5D by more lithoned character, general lack of olive in colour, micaceous silvery to silvery grey S2 surfaces. Often difficult to fully identify.
						Core slightly broken w/ good recovery.
	317 1	328 0 100 0		21	5B2$	
						Soft, thinly banded, mainly PS2-foliated, dark grey, dolomitic phyllite. S2 surfaces are dark steely grey. Compositional banding defined by dark S2 pressure soln stripes and by thin grey qtz-dolomite siltstone intervals. Banding generally on scale 1 cm or less. Siltstone bands weather pale tan, locally they defined S1 microlithons and small D2 folds. Minor scattered pyrite porphyroblasts. Upper contact marked by gouge and lower contact gradational into green rocks.
						TOI - 317.8 grey mud gouge. lower & upper contacts parallel S2. Recovery OK //
						317.8 - 326.5 very broken and rubbly w/ 10cm gouge @ 325 feet. TOI - 321 has only 2 feet core. - otherwise recovery OK // 326.5 - EOI mod. broken w/ good recovery.
	328 0	334 0 101 8		22	5D$4	(5B$2) 60:40
						Interbanded lithologies on 5cm - 30cm scale. Major unit is pale olive tan, soft, dolomitic, PS2-foliated homogeneous muscovite-chlorite phyllite. Weathers to a very pale creamy

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Code	From	To	Recov.	No.	Unit	Description
1	10 14	16 20	22 24	26 28	30 34	35
		131314 0		1212		tan. Corresponds to slightly altered version of SD. S2 surfaces are pale silvery tan, locally w/ a faint greenish tinge. Contains interbands of soft, medium grey, CS2-foliated, dolomitic, thinly banded phyllite. S2 surfaces are silvery grey. Dolomite associated w/ qtz in thin siltstone bands delineating D2 microfolds and S1 microlithons w/in S2 pressure soln stripes. Marginal contacts w/ SD are sharp.
						TOI - 333.0 very broken w/ minor short rubbly intervals. // 333.0 - EOI rubbly w/ mud gouge. Fractures w/ displacement @ TOI are 25/180 wrt S2. Interval 326.5 - 333.5 has only 5 feet core — probably lost mainly at EOI.
	131314 0	131418 0		1213	15C1$17	I 4 "ZEBRA ROCK" (4DO ± "CHLORITIC") 93:07
		106 1				Mainly a very soft, medium green, PS2-foliated, chloritic phyllite. Chlorite as thin, green, anastomosing streaks in a slightly dolomitic grey-green to tan matrix. Foliation striping extensively disrupted by later "faulting" and shearing. Lowermost 25cm consists of PS2-foliated, soft, pale tan-weathering, dolomitic, muscovite phyllite. S2 surfaces are silvery cream. Contains spots and streaks of bright blue-green "fuchsite".
						Interval 340.5 - 343.0 consists of hard, PS2-foliated, pale grey, noncalcareous, slightly pyritic qtzite. In upper ½ of qtzite, qtz has medium green tinge from abundant fine-grained chlorite. Splotches of splotchy dark red-brown aggregates. Irregular and appears to be along S1, S2 and fractures. Contains abundant soft, white, cubic (?), non acid reactive mineral porphyroblasts up to 0.5cm across. Could these be altered feldspars (?) Pyrite content 1-5%. Estimated grade for qtzite 9% (Pb+Zn).
						Entire interval mod to very broken w/ numerous gouges in the 5C rock type. Gouges appear to be gently related to lithology. At 342.5 have fractures w/ horizontal slickensides in qtzite. Fractures have angle 50 wrt core axis. Interval 333.5 - 339.5 has only 2 feet core // 339.5 - 343 has only 2.3 feet core // 343 - 348 has 5 feet core. Core missing is probably 5C lithology.

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Lithologic Log

Date: Aug 18/89 Logged By: LCP

Code	From	To	Recov.	No.	Unit	Description
	131418 0	131716 7		1214	141D101	I 5 (5D4 $) TRACE
		114 8				Very hard, CS2-foliated, pale grey to off-white, noncalcareous, pyritic, muscovitic qtzite. S2 surfaces have fine, irregular muscovite silvers. Pyrite + sphalerite in thin grey qtz-sulphide bands which cut across S1 foliations and yet form D2 minor folds. Qtz-S= bands are generally 0.5cm or less but locally exceed 1 cm. Also have minor fine sphalerite > pyrite defining S1 microlithons.
						Interval 369.5-370.5 and 374.5-375.5 qtzites approach HA in appearance and texture. S2 surfaces are silvery grey to dark steely grey. Cut surface is pale grey to medium grey. Pyrite content 5-10% Estimated grade 7% (Pb+Zn).
						Interval 351-352 is soft, PS2-foliated, dolomitic, pale grey muscovite-dolomite phyllite. S2 surfaces are silvery cream. Weathers to pale tan. Contains streaks and spots of bright green-blue "fuchsite"
						TOI-371.5 very broken and rubbly - TOI-351 has 3 feet core; 351-354 has 3 feet core; 354-364 has only 1.3 feet core w/ some regained core but no statement of why core lost; 364-370.5 has 5 feet core; 370.5-371.5 has 1 foot core
						371.5-372.5 core totally fine rubble recovery OK?
						372.5-EOI very broken w/ local rubbly intervals (like @ 375) recovery OK
	131716 7	131718 9		1215	151C141$	"Zebra Rock"
		115 5				Moderately hard, grey, moderately dolomitic, altered chlorite-carbonate "phyllite". Carbonate is grey and weathers to a pale tan. Chlorite forms thin S2-parallel streaks which are bright green "fuchsite". Interval is PS2-foliated. S2 surfaces are bright green spotted.
						Core very broken and rubbly. 5cm gouge at TOI is parallel S2 and probably lithology-related. Bottom 0.8 feet also rubble w/ gouge? Recovery looks OK

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Date: Aug 18/89 Logged By: LCP

Code	From	To	Recov.	No.	Unit	Description
1	10 14	16 20	22 24	26 28	30 34	35
	131718 9	131817 7 118 2		1216	141A141	(4D5)(4D0) 70:15:15 Very hard, CS2-foliated, medium dark grey, noncalcareous, pyritic gtzite. Ribbon-banded texture w/ fine grey "clotty" matrix and pale grey qtz-sphalerite-pyrite ribbons (veinlets?) generally subparallel S1 and folded by D2. Sphalerite also occurs w/ lesser pyrite in S2 pressure solutions stylopes about 2-3mm thick. S2 surfaces are shiny dark grey and slightly to moderately mark the fingers. Locally S2 surfaces and overall background grey to gtzite become lighter. Gradational change into an 4D5 rock type. Pyrite content 5%. Estimated grade 8% (Pb+Zn) Uppermost 1 foot against the altered metabasite is pale cream, noncalcareous gtzite. S2 surfaces are silvery from fine muscovite. Change to 4A is gradational over about 5cm. Similar sulphides contents and estimated grades to 4A. Contains 1cm qtz-dolomite boudin/lens within S2 fabric. Core mod. broken w/ good recovery
	131817 7	141013 3 122 9		1217	141D101	±5 (5C4$)(HA4) 60:20:20 ± BXA Very mixed unit w/ bxa textures @ TOI and EOI and much broken core. Metabasite consists of PS2-foliated soft, ten-weathering, muscovite-dolomite phyllite. S2 surfaces are muscovitic ten-grey locally contains abundant bright blu-green "fuchsite" streaks defining S1 and S2 foliations. Major unit is creamy white, very hard, noncalcareous, pyritic gtzite. Generally poorly CS2-foliated. S2 surfaces are silvery white from fine muscovite. Sphalerite >> pyrite. S1 forms thin compositional bands w/ qtz. Also forms a more comprehensive "fracture" network of sphalerite w/ much lesser pyrite anastomosing around qtz eyes. Tends to form an incipient microbxa texture. Locally unit becomes medium grey w/ silvery grey S2 surfaces. Forms complete transition to 4A. Estimated grade 6-12% (Pb+Zn) Pyrite content generally 1-5%.

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2 8

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Code	From	To	Recov.	No.	Unit	Description
1	10 14	16 20	22 24	26 28	30 34	35
		41013 3		217		Unit also contains intervals of dark grey, noncalcareous, hard, ribbon-banded qtzite. Good 4A texture w/ qtz-sphalerite >> pyrite ribbons in a fine grey siliceous matrix. Sphalerite also occurs in carbonaceous pressure soln. stripes defining S2. Estimated grade 7% Pb+Zn. Pyrite content 1-3% This lithology is gradational w/ 4D5
						TOI - 398.0 very brken and rubbly with about 90-95% recovery. Locally get bxa textures w/ qtzite clasts in more gougy matrix. Orientation of major fracture juxtaposing lithologies @ 388.5 57/065 wrt S2, @ 396.5 have fracture juxtaposing lithologies 20/270 wrt S2, @ EOI have polished fault surface = S2 = 67° wrt core axis
						398.0 - EOI mod. brken w/ good recovery. Bxa zone @ 402-403.3
	41013 3	41118 5 127 6		218	41D41	±3 (5C4$) 85:15
						Hard, pale grey, noncalcareous, sulphide-rich qtzite. Generally sphalerite > pyrite. Sphalerite forms thin laminae / bands up to 0.5 cm thick generally subparallel S2. Locally bands are fracture-fillings xcutting the dominant schistosity. S2 surfaces are medium qtzite grey w/ only minor muscovite. Pyrite occurs w/ sphalerite in irregular bands up to 1cm thick parallel S2 and xcutting S2. Also get 10-15cm zones w/ abundant disseminated pyrite (i.e. 70% of interval) Overall pyrite content 5%. Estimated grade 12% (Pb+Zn). Tan-weathering dolomite infills fractures. Some fractures also open - possibly carbonate weathering out.
						Interval 414.5-416 is soft, PS2-foliated, dolomitic muscovite-chlorite phyllite. Colour varies from pale tan to olive green and grey-green. Locally contains abundant bright green "fuchsite" streaks parallel S2.
						TOI - 407 mod. brken w/ good recovery // 407-414 mod. brken w/ only 1 foot core plus note of mislatch // 414-EOI mod. brken w/ good recovery

DDH B9G-16
2 8

CURRAGH RESOURCES INC.
Lithologic Log

Date: Aug 18/89 Logged By: LCP

Code	From	To	Recov.	No.	Unit	Description
1	10 14	16 20	22 24	26 28	30 34	35
	41118 5	41213 7 129 1		219	41A1	BXA (4DO) ± GOUGE 80:20 Dominantly a very dark grey to black, PS2-foliated, noncalcareous, very hard to hard qtzite. S2 surfaces are shiny black and often polished by shearing. Ribbon-banded texture not readily evident. Compositional banding and foliation disrupted by later shearing. Locally consists of qtzose clasts in a black mud gouge matrix. For interval 420-421 feet rock is chalky white, very brken, noncalcareous qtzite w/ sphalerite + pyrite compositional bands and laminae. Again banding is very disrupted by later shearing. Some polished shear surfaces show horizontal slickensides. Entire unit rubbly & very brken w/ gouge. At 420.5 shear surface 20° wrt core axis. At 422 shear surface 30° wrt core axis. Recovery OK for interval.
	41213 7	41315 7 132 8		310	5C146	(4DO ± 5) 95:05 Moderately hard, tan brown to striped grey & bright green, PS2-foliated, noncalcareous phyllite. Units all weather tan brown. Some intervals are grey w/ irregular, anastamosing bright blue-green "fuchsite" streaks. Some intervals are more uniformly pale tan with a few bright green "fuchsite" streaks. Contains abundant pegmatitic white vein qtz - locally w/ galena infilling fractures. Near TOI have 0.7 feet of medium grey to affwhite, noncalcareous, very hard, slightly pyritic qtzite. S2 surfaces are silvery cream muscovite-rich to silvery grey slightly carbonaceous. Abundant reddish brown sphalerite in irregular compositional bands parallel S2. Sphalerite >> pyrite. Estimated grade 9% (Pb+Zn). Pyrite content 1-2% TOI-425.0 Very brken & rubbly w/ gouge at top of interval — recovery OK 425-428 Mod. brken w/ good recovery 428-EOI Very brken and rubbly — especially in qtz vein areas. Interval 429-431.5 has 2 feet core // interval 431.5-436.5 has 2.5 feet core. Significant core loss probably near bottom of this interval in metabasite

DDH 8.9.G.-1.6.
2 8

CURRAGH RESOURCES INC.
Lithologic Log

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Code	From	To	Recov.	No.	Unit	Description
1	10 14	16 20	22 24	26 28	30 34	35
	4315 7	4411 0 134 4		31	4D01	Hard, PS2-foliated, noncalcareous, pale grey, slightly pyritic qtzite. S2 surfaces are qtzite grey w/ thin patches of fine silvery muscovite. Abundant compositional bands of dark brown sphalerite + grey galena are generally parallel S2. Bands have irregular margins. Also sphalerite and galena remobilized into xcutting fractures. Sulphide bands are generally up to 1cm thick. Locally they contain abundant pyrite. Pyrite content 1-3% Estimated grade 9% (Pb+Zn) Core very broken & rubbly Only 2.7 feet recovered — major core loss in ore.
	4411 0	4515 137 6		32	5C46	± $ ± GOUGE (5A6 GOUGE) 80:20 Soft to moderately hard, noncalcareous to slightly dolomitic, PS2-foliated phyllite. Dominantly pale grey and bright blue-green "fuchsite" streaked. Locally a more uniform, soft, pale tan. Weathers to a medium tan. S2 surfaces are silvery tan to bright blue-green. Contains interbands of carbonaceous black mud gouge. Fragments in gouge are locally hard — siliceous. S2 surfaces are shiny black-gouge moderately to strongly marks fingers. TOI- 442.0 Mod. broken w/ OK recovery //442-EOI Very broken & rubbly - dominantly mud gouge or gougy rubble Interval 441.5-445 has only 2.5 feet core. Recovery OK for 445-451.5 At 448.5 fractures in rubbly core have orientation 25 wrt core axis No other orientations possible
	4515	4645 141 6		33	5B2$	(5C4$)(5D4$) 65:15:20 TOI- 453.5 is soft, slightly dolomitic, PS2-foliated, pale olive chlorite phyllite. S2 surfaces are pale olive to medium green. All surfaces weather to a pale tan. Upper contact parallel S2; lower contact fracture w/ orientation 30/000 wrt S2. Thin ivory dolomite veinlets parallel S2 and xcutting S2.

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Code	From	To	Recov.	No.	Unit	Description
1	10 14	16 20	22 24	26 28	30 34	35
		4645		33		453.5 - 462 Mod. soft, PS2-foliated, dark grey, very, very slightly dolomitic, thinly banded phyllite. S2 surfaces are dark steely grey and slightly mark fingers. Numerous thin pale grey qtz ± minor dolomite siltstone bands are generally parallel S2. Locally these bands form S1 microlithons & D2 minor folds w/ on S2 pressure solution stripes. These bands are generally less than 1 cm thick.
						462 - EOI is mod. soft to mod. hard, PS2-foliated, greenish-grey, slightly dolomitic phyllite. Cut surface weathers to a tan brown. S2 surfaces are green w/ numerous bright blue-green "fuchsite" spots. Contains abundant "fuchsite" discontinuous, anastomosing "fuchsite" streaks on cut surface. Classified as an altered, highly foliated, metabasite.
						TOI - 457.5 Mod. broken - interval 451.5 - 455.5 has only 3' core. Probably most loss in gauge @ TOI. No major gauges, recovery looks OK
						457.5 - 461.5 Very broken, rubbly, poker chippy. Numerous incipient gauges possibly related to rock type. Recovery looks OK
						461.5 - EOI slightly broken to intact - recovery is good. Upper contact of lower metabasite (462) is along late crenulation cluge axial planar surface.
	4645	4715 / 1437		34	4D45	±3 ±7 (5C46) 65:35
						Very hard, medium grey, PS2-foliated, noncalcareous qtzite. Overall has reddish tinge from abundant fine sphalerite. Sphalerite in fine laminae & PS2 stripes. S2 surfaces are medium dark qtzite grey. Locally have microbxa texture w/ sphalerite infilling microfractures forming a network around qtz grains. Adjacent to metabasites have 10 cm rim of subrounded pyrite grains in siliceous matrix. Pyrite also shows microbxa texture w/ minor displacement across fractures through grains. One "pyrite rim" also contains interstitial pyrrhotite w/ pyrite >> pyrrhotite. Pyrite content 80% in these "rims". Pyrite also occurs as 1 cm, irregular compositional bands crudely S2 foliaform

DDH 89G-16
2 8

CURRAGH RESOURCES INC.
Lithologic Log

Date: Aug 21/89 Logged By: WP

Code	From	To	Recov.	No.	Unit	Description
1	10 14	16 20	22 24	26 28	30 34	35
		141711 5		1314		Pyrite content 5-10%. Estimated grade 15% (Pb+Zn). Call this a 4A rock which has been slightly bleached w/ extensive sphalerite "eddies" because of metabasites. lower contact gradational w/ loss of grade & darker colour & increase in ribbon-banding. Changes probably due to metabasites
						Metabasite is soft, PS2-foliated, pale grey, non-calcareous phyllite. Contains numerous discontinuous bright green "fuchsite" streaks along S2 foliation surfaces. S2 surfaces creamy w/ bright green streaks. Unit weathers to a tan brown
						Core intact w/ good recovery.
	141711 5	141718 3		1315	141A141	(4DO) 80:20
		145 8				Very hard, non-calcareous, PS2-foliated to poorly CS2-foliated, dark grey phyllite. Contains excellent ribbon banding texture w/ 1-5 cm thick off-white qtz-5= bands. Sulphide-rich bands are pyrite, pyrite-sphalerite, or sphalerite. S2 surfaces are sooty carbonaceous dark grey and slightly to moderately waxy fingers. Pyrite slightly coarser-grained in the qtz-5= bands. Estimated pyrite content 10-20% Estimated grade 6-8% (Pb+Zn) Bottom 1.7 feet is bleached adjacent to metabasite to a creamy white qtzite S2 surfaces are qtzite grey w/ minor silvery muscovite patches. Pyrite and (Pb+Zn) estimates are similar to those suggested for the 4A material. Upper contact w/ 4A gradational over 5cm.
						Core mod. broken w/ some minor rubbly intervals. Recovery OK
	141718 3	141810 5		1316	15C141?	(5D4?) 60:40
		146 5				Margins of unit are 10-15 cm of pale tan, slightly dolomitic, PS2-foliated, soft phyllite. Weathers to a darker tan S2 surfaces are pale creamy beige. Marginal contacts are sharp. Corresponds to very deformed/foliated and altered metabasite. Locally it has minor bright green "fuchsite" coats on S2 foliations.

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Lithologic Log

Date: Aug 21/89 Logged By: KLP

Code	From	To	Recov.	No.	Unit	Description
1	10 14	16 20	22 24	26 28	30 34	35
		1418.10 5		16		Centre of unit is soft, grey, slightly dolomitic phyllite. Also weathers to a tan. Contains abundant discontinuous bright green "fuchsite" streaks parallel S2. Generally PS2-foliated. Lower contact is steep fracture w/ orientation 30/000 wrt S2. Again a highly altered metabasite. Core very broken to locally rubbly — recovery good.
	1418.10 5	1418.15 9 148 1		17	1A1H	9 MINOR (HD4H7) 90:10 Very hard, noncalcareous, dark grey, ribbon-banded qtzite. S2 surfaces very dark shiny grey and moderately to slightly mark fingers. CS2-foliated w/ microlithons defined by pale grey to off-white qtz-S= bands. Qtz-S= banding includes sphalerite, pyrite, sphalerite-pyrite. Sphalerite & pyrite also tend to be concentrated along carbonaceous S2 pressure soln stripes. Pyrite content 5-10% Sphalerite > pyrite. Estimated grade 6-8% (Pb+Zn) Minor splashy ogy on xcutting fractures. Bottom 0.5 feet is almost microbxa because of abundant sphalerite forming anastomosing network around white to pale grey qtz grains. Could be vein qtz w/ abundant S= Also contains fine interstitial pyrrhotite and lesser pyrite. Estimated grade 20% (Pb+Zn) Pyrite about 1-2%. Core mod. broken to mod. poker chippy 10cm gouge @ 4850 upper contact parallel S2/ lower contact 65/000 wrt S2. Recovery good.
	1418.15 9	1418.17 9 148 7		18	5A1$1	9 MINOR Moderately soft, very dark grey, PS2-foliated, slightly dolomitic phyllite. S2 surfaces are shiny dark steely grey to black and moderately mark fingers. Contains thin qtzose siltstone bands < 1cm thick parallel S2. These siltstones have very minor dolomite. Also has minor thin qtz-sphalerite bands parallel S2. Fine pyrite occurs as irregular xcutting fracture infillings. Core slightly broken w/ good recovery.

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Code	From	To	Recov.	No.	Unit	Description
	141817 9	141912 5		1319	141E141	± 6 t/ (4A44)(5C4%)(4E10±7)
		150 1				Very mixed unit as go down the DDH.
						TOI - 488.9 Upper ½ is 4E1 ±7 / fine-grained, massy yellow pyrite 5= w/ interstitial grey qtz. Contains irregular, patchy, fine pyrrhotite. No grade except for some thin sphalerite compositional bands at uppermost contact. Lower ½ is 4E4 ± 6t/ Dulux brown pyrite 5= w/ interstitial barite and locally interstitial quartz. In pyritic areas sphalerite is reddish brown / in areas w/ barite sphalerite is lighter tan coloured. All fine grained. PS2 compositional banding. Estimated grade 10% (Pb+Zn) Pyrite content 80%.
						488.9 - 490.2 Totally altered metabasite. Moderately soft to moderately hard, PS2-foliated, pale grey, dolomitic phyllite. Weathers to a pale tan. S2 surfaces are grey to tan w/ bright green "fuchsite" stripes. Cut surface shows abundant "fuchsite" streaks parallel S2.
						490.2 - 491.6 4A44. Very hard, non-calcareous, medium grey, slightly ribbon-banded, pyritic qtzite. Poorly CS2-foliated. Wet cut surface has reddish brown colour from abundant fine sphalerite. Sphalerite is anastomosing network w/ concentrations largely along S1 and S2. Pyrite content 1-5% Estimated grade 20% (Pb+Zn).
						491.6 - EOI Top ⅓ 4E1 and lower ⅔ 4E46. Top massy yellow, banded pyrite w/ small qtz clasts. Estimated grade < 2% (Pb+Zn). Lower is reddish brown pyritic 5= w/ interstitial barite. Estimated grade 15% (Pb+Zn) Barite content 15%. Compositional banding w/ barite & sphalerite on a 1-5cm scale parallel S2. Core slightly to mod. broken w/ good recovery.

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Code	From	To	Recov.	No.	Unit	Description
1	10 14	16 20	22 24	26 28	30 34	35
	14912 5	14918 3 151 9		140	14D141	±8 MINOR
						Very hard, pale grey, generally PS2-foliated, noncalcareous, pyritic gtzite. S2 surfaces are light gtzite grey w/ patchy fine silvery muscovite. S1 form compositional bands generally parallel S2. Within bands S1 are interstitial to gtz grains. Sphalerite >> pyrite. Generally pyrite forms its own bands which contain only minor sphalerite & galena. In some intervals gtz very fine grained w/ wispy appearance — looks mylonitic. Pyrite content 1-5%. Estimated grade 12% (Pb+Zn).
	14918 3	15017 0 154 5		141	15D1416	(SC46 ± 8 MINOR)(4DO) 85:10:05
						Dominantly a pale beige, soft, noncalcareous, PS2-foliated, muscovite phyllite. Weathers to a pale tan. S2 surfaces are silvery beige w/ bright green "fuchsite" spots. Diffuse compositional banding on scale <1cm noticeable locally.
						Locally becomes coarser-grained pale tan to grey, slightly dolomitic phyllite w/ carbon-bearing muscovite streaks and laminae. More prevalent turquoise blue-green laminae and lenses are present. This would be the altered SC. Appears to preserve an equigranular relict igneous texture.
						At 500.7 have 0.5 feet of grey gtzite w/ S1 parallel bands of reddish brown sphalerite. It forms a fold nose within the metabasite.
						TOI -505 mod. broken w/ good recovery // 505 - EOI Very broken & rubbly w/ incipient lithology related gouge. Recovery looks OK. - maybe 0.5 feet lost.
	15017 0	15114 1 156 7		142	14E141§	±6 ±1 (SC46) 80:20 [4K4±6]
						Moderately soft to moderately hard, PS2-foliated, pyritic sulphides. Dolomite disseminated in matrix as well as pegmatitic clasts up to 1cm across. Many of clasts look to be disrupted veins which are broken and "floating" in S1 matrix. Also compositional bands w/ disseminated biotite. Typically the matrix disseminated sphalerite is honey-coloured

DDH 89G-16 (2 of 8)

CURRAGH RESOURCES INC.
Lithologic Log

Date: Aug 21/89 Logged By: LCP

Code	From	To	Recov.	No.	Unit	Description
		151114 1		1412		locally have large qtz clasts or qtz bands w/ sulphides "flowing" around them. Locally the sulphides are slightly present along thin compositional bands and some sleep fractures. PS2 compositional banding on a scale less than 0.5 cm. Interval 508.3 – 510 is PS2 foliated, soft, pale tan phyllite. Contains abundant streaks and lenses of bright green "fuchsite". TOI – 510.0 Very broken & rubbly Gouge mx SC lithology – recovery OK // 510 – EOI Mod. broken w/ good recovery. Pyrite content overall 70 – 85%. Estimated grade 10 – 12% (Pb + Zn).
	151114 1	151216 3 160 4		1413	141D101	IH (5DH ?) 95:05 Pale grey, PS2 and CS2 foliated, noncalcareous, pyritic qtzite. Pyrite & sphalerite in diffuse compositional bands generally up to 1 cm thick. Bands are parallel S1 and S2. S2 surfaces are qtzite grey w/ patchy silvery muscovite. Locally muscovite becomes thick enough to form thin laminae & stripes parallel S2. Pyrite content 10%. Estimated grade ranges 9 – 15% Contains thin interbands of pale tan, PS2 – foliated, dolomitic, muscovite phyllite. Soft. Interbands are up to 20 cm thick. Locally they begin to develop a relict SC igneous texture. S2 surfaces are shiny beige w/ bright green "fuchsite" spots. TOI – 518 Very broken & rubbly w/ good recovery // 518 – EOI mod. broken w/ good recovery.
	151216 3	151426 165 4		1414	151C1?1	IH (5D? IH) 80:20 Soft, pale olive, PS2 – foliated, homogeneous, slightly dolomitic, chloritic phyllite. S2 surfaces are silvery green to olive. Overall varies from striped to spotted texture w/ discontinuous chloritic streaks in grey matrix (striped) to pale tan dolomite chunks in uniform green matrix (spotted). Rare displays of relict igneous texture. Locally some

DDH BG.G-16 (2 8)

CURRAGH RESOURCES INC.
Lithologic Log

Date: Aug 21/89 Logged By: LCP

Code	From	To	Recov.	No.	Unit	Description
1	10 14	16 20	22 24	26 28	30 34	35
						intervals are very strongly tan-weathering. These intervals sometimes contain very minor bright green "fuchsite" spots. Very thin, minor sphalerite-bearing grey qtzite bands occur @ 537.8 feet and 542.4 feet.
						Core slightly to moderately broken w/ good recovery
	151412 6	151510 0 167 6		1415	141D141	(5D4 $) 95:05
						Pale grey, non-calcareous, very hard, poorly C$2-foliated pyritic qtzite. S2 surfaces are qtzite grey w/ thin smear of silvery muscovite. Sphalerite + pyrite forms compositional bands subparallel S1 and folded during D2. Bands range from 1mm - 1cm. in thickness. Sphalerite 2× pyrite. Pyrite content 5-10%. Estimated grade 10-12 % (Pb + Zn). Minor dolomite infills steep fractures.
						Uppermost 1 foot of interval contains interbanded pale tan, PS2-foliated, slightly dolomitic, muscovite phyllite. Soft. Contains abundant streaks of blue-green "fuchsite". S2 surfaces are silvery tan w/ blue green spots. Corresponds to combination of previous unit # 44 ( ) with interbanding due to D2 fold repetition.
						TOI - 547.0 Core slightly broken w/ good recovery // 547.0 - EOI Core very broken & rubbly w/ OK core recovery. Between 547-549.5 have 2.2 feet recovered
	151510 0	151515 1 169 2		1416	151C141$	± "ZEBRA ROCK"
						Soft, PS2-foliated, dolomitic, pale tans, muscovite-qtz phyllite. Upper ½ unit is homogeneous tan phyllite w/ scattered subhedral dolomite rhombs and sparse qtz-pyrite streaks parallel S2. S2 surfaces silvery w/ sparse bright blue-green "fuchsite" spots. Dolomite "rhombs" preserve a relict igneous equigranular texture. Bottom ½ of unit is more strongly laminated phyllite w/ anastomosing muscovite-"fuchsite" streaks and laminae in a grey dolomite matrix. S2 surfaces are more strongly "fuchsite"

DDH 89G-16 (2 / 8)

CURRAGH RESOURCES INC.

Lithologic Log

Date: Aug 23/89 Logged By: ACP

Code	From	To	Recov.	No.	Unit	Description
1	10 14	16 20	22 24	26 28	30 34	35
						spotted thru upper ½ of unit. Banding is generally on scale of 0.5 cm. Entire unit weathers to a medium tan. Marginal contacts are sharp parallel S2. Core moderately broken w/ good recovery.
	15515 /	15713 2		1417	141A141	
		1747				
						Very hard, dark grey, CS2-foliated, ribbon-banded, pyritic qtzite. Ribbon-banding defined by medium coarse, grey, qtz ± sphalerite ± pyrite bands in a finer-grained, dark grey siliceous matrix. S2 surfaces are very dark grey to flat black and only slightly marks the fingers. Pyrite dominantly in S2 pressure shdw stringers up to 1 cm thick. Sphalerite in S1 microlithons and in S2 pressure shdw stringers. Core contains abundant steep fractures w/ tan-weathering dolomite infilling fractures. locally dolomite xtals well-formed and obviously growing inward into open cavities. Pyrite content 15%. Pyrite greater sphalerite. Estimated grade 6% (Pb+Zn).
						Core very broken and rubbly. 567-568 is black mud gouge w/ clasts of qtz-pyrite. Interval 561-568 has 7' core so recovery is OK. Recovery also OK for rest of unit.
	15713 2	15812 8		1418	51C1417	$ "ZEBRA ROCK"
		1776				
						Moderately soft, CS2- to PS2-foliated, slightly dolomitic, tan-green, chloritic phyllite. Unit weathers to a tan brown. Fresh surface consists of olive green, thin, anastomosing chlorite streaks within a grey carbonate matrix. S2 surfaces are mottled green and tan-brown. locally is more homogeneous and is a more uniform silvery beige muscovite-chlorite phyllite. Muscovitic areas have bright green "fuchsite" streaks parallel S2. Can see S1 and S2 cleavages in the "striped" metabasite.
						locally have S⁼-rich late resulting veins/fractures containing sphalerite-pyrite-dolomite-

DDH 89-16
2 8

CURRAGH RESOURCES INC.
Lithologic Log

Date: Aug 23/89 Logged By: LCP

Code	From	To	Recov.	No.	Unit	Description
1	10 14	16 20	22 24	26 28	30 34	35
						qtz. Marginal contacts are sharp parallel S1. Core mod. to slightly broken — recovery is good
	15812 8	15819 7 (179 7)		149	141D41	± 5
						Hard, noncalcareous, medium pale grey qtzite. S2 surfaces are generally silvery from fine muscovite. Locally colour of qtzite is medium grey w/ S2 surfaces being medium shiny, silvery grey. Pyrite occurs dominantly as compositional qtz-pyrite ± sphalerite bands up to 5cm thick. Bands are parallel S1. Pyrite forms coarse, subhedral grains in bands; margins of bands are diffuse. Sphalerite forms thin streaks subparallel S1. — streaks are up to 1mm thick generally. Sphalerite >> pyrite. Pyrite content 5-10% Estimated grade 12% (Pb+Zn). Lower contact gradational over 0.5 foot interval. Core mod. broken w/ good recovery.
	15819 7	16018 9 (185 6)		150	141A1414	→ (4D 54) 70:30
						Very hard, dark grey, noncalcareous, pyritic, ribbon-banded qtzite. S2 surfaces are flat black and moderately mark fingers. Sulphide-qtz ribbons banding dominantly sphalerite w/ only very minor scattered pyrite grains. Sphalerite bulk in S1 and S2 pressure solution stripes. S1 stripes define microlithons. Estimated grade 12-15% (Pb+Zn). Pyrite content < 2%. Some minor thin qtz-pyrite ribbons bands.
						Below 604 unit becomes slightly lighter grey. S2 surfaces are patchy silvery dark grey. Contains steep fracture parallel core axis. Fracture has green veins w/ dolomite xtals lining cavities. Also some bxa clasts within dolomite lining the fracture. In lowermost 1 foot unit becomes even lighter grey and is slightly softer — can be scratched by nail w/ difficulty.
						TOI-594.5 core mod. broken w/ good recovery // 594.5-598 core mod. broken & mod. poker chippy w/ good recovery // 598-600 Only 0.6 feet of mod. broken core //

DDH 89G-16
2 8

CURRAGH RESOURCES INC.
Lithologic Log

Date: Aug 23/89 Logged By: LCP

Code	From	To	Recov.	No.	Unit	Description
1	10 14	16 20	22 24	26 28	30 34	35
		161098		1510		600.0 - 604 Only 2.5 feet of very broken & mod. poker chippy core. At 600 have one piece reground core // 604 - EOI core slightly broken w/ good recovery
	161018	161153 1875		1511	131G101	± 6 MINOR (4L6) 85:15 Uppermost 1 foot is soft, noncalcareous, PS2-foliated, silvery green grey phyllite. S2 surfaces are pale silvery green. Homogeneous, slightly altered, metapelite. Rest of unit is medium grey, PS2-foliated, noncalcareous phyllite. S2 surfaces are medium silvery grey. Contains two 1cm thick sphalerite-galena-qtz veins foliaform w/ S2. Unit also contains a 1 foot thick section of pegmatitic white vein quartz. TOI - 613 mod. broken w/ good recovery // 613 - 614 very broken w/ good recovery // 614 - EOI very broken & rubbly w/ gouges - unit ends in 10cm gouge zone. No orientations - probably not a major/significant fault.
	161153	162119 1896		1512	141D1413	± 5 ± 17 MINOR (5C4 $ 9)(5B26) ± BXA 70:20:10 Major unit is hard, noncalcareous, pale to medium grey, CS2-foliated, pyritic qtzite. S2 surfaces range from pale silvery to silvery grey. Pyrite occurs as disseminated grains w/ sphalerite in 5-10cm thick zones roughly parallel S2. Pyrite fine-grained in these zones. Uppermost 2.6 feet of unit is dark green & grey striped, dolomitic, chloritic phyllite. Typical "Zebra Rock" PS2-foliated texture. Contains marginal "veins" up to 20cm thick consisting dominantly of dark sphalerite + galena w/ thin muscovite-rich mica bands running through. Locally have bright green "fuchsite" spots/streaks. Near bottom of the 2.6 feet have bxa texture w/ qtz & altered metabasite clasts in network sulphide matrix. Near EOI have 0.5 foot, medium dark grey, soft, noncalcareous, CS2-foliated phyllite. S2 surfaces are dark shiny grey. Core intact w/ good recovery. Pyrite content 25%. Estimated grade overall 15-18% (Pb+Zn)

DDH 89G-16

CURRAGH RESOURCES INC.
Lithologic Log

Date: Aug 23/89 Logged By: LCP

Code	From	To	Recov.	No.	Unit	Description
1	10 14	16 20	22 24	26 28	30 34	35
	6211 9	6245 1903		53	4L06	I $ MINOR Moderately soft, pale silvery green, PS2-foliated phyllite. S2 surfaces are silvery cream w/ faint green tinge. Contains thin qtz siltstone bands which are locally slightly dolomitic. Unit becomes overall slightly greyer as go down DDH. Core mod. brken w/ good recovery.
	6245	6274 1912		54	4A43	9 MINOR (4H43)(5A6) 85:15: TRACE TOI - 626.5 is very hard, noncalcareous, very pyritic, ribbon-banded qtzite. S2 surfaces are shiny dark grey. Minor splashy cpy in xcutting fractures. Pyrite ≈ pyrite. Pyrite content 15-40% Estimated grade 15% (Pb+Zn) looks like "flooding" of qtzite by S². 626.5 - 626.6 is moderately soft, very dark grey, noncalcareous, PS2-foliated phyllite. Minor pyrite along fractures. 626.6 - EOI is fine grained pyrrhotite w/ disseminated sphalerite and fine pyrite. Vague compositional banding foliaform w/ S2. Marginal upper contact sharp xcutting S2. Lower contact gradational over 3cm and marked by increase in silicates. Grade 20% (Pb+Zn) Pyrite content 15-20% Core intact w/ good recovery.
	6274	6350 1935		55	3G06	(4L06 4 MINOR) 70:30 Top 2.5 feet is moderately soft, noncalcareous, PS2-foliated, pale silvery green phyllite. S2 surfaces are muscovitic silvery w/ green tinge. Contains thin S2 foliaform qtz-sphalerite-galena veins. Lower contact is gradational to medium grey, homogeneous, noncalcareous, PS2-foliated phyllite. S2 surfaces are silvery grey. Minor thin pyrrhotite streaks parallel S2. TOI - 628.9 very brken w/ good recovery // 628.9 - 634 slightly brken w/ good recovery // 634 - EOH very brken w/ good recovery EOH

DDH 89-G-16 (2 / 8)

CURRAGH RESOURCES INC.
Structural Log

Date: Aug 15/89 Logged By: TLK

Code	From (ft)	To (ft)	Feature	Sym	S_0 Dip Direct.	S_1 Dip Direct.	S_2 Dip Direct	Description
		310	C S 2	Z		12 226	518	S_1 defined by comp. banding S_2 by micaceous fltn.
		265						Fold hinge
		312	C S 2	S		21 090	688	S_1 defined by comp. banding S_2 by micaceous fltn.
		715	C S 2			120 677	710	" " F_2 fold hinge
		778						Fold hinge
		1012	C S 2	S		10 256	688	S_1 defined by comp banding S_2 by micaceous fltn. Fold hinge F_2
		1117						F_2 Fold hinge
		1220	C S 2	M		111 180	677	S_1 defined by comp banding S_2 by micaceous fltn
		1314	C S 2			183 15	613	" " "
		1605	C S 2	Z		231 80	655	" " "
		1720	C S 2	M		111 180	717	" F_2 fold hinge "
		1925						F_2 fold hinge
		1905	C S 2	Z		132 310	699	F_2 fold hinge S_1 defined by comp. banding S_2 by micaceous fltn
		2114	P S 2	-		— —	722	Defined by micaceous fltn & fine pyritic bands.
		2119	C S 2	-		10 0 0 0	744	F_2 fold hinge S_1 defined by comp banding S_2 by micaceous fltn.
		2227						Fold hinge (F_2)
		2399	C S 2	S		120 526	611	S_1 defined by comp. banding S_2 defined by micaceous fltn.
		2633	C S 2	S		410 010	655	Defined by micaceous fltn.
		2855	C S 2	S		121 890	722	S_2 defined by micaceous fltn. S_1 by comp. banding.
		3105	C S 2	—		11 210	788	" F_2 fold hinge "
		3127	C S 2	S		114 285	611	" F_2 fold hinge "
		3644	C S 2	S		250 100	611	Defined by sphalerite bands.
		3811	C S 2	S		650 415	722	Defined by micaceous fltn. pyrite & sphalerite bands
		3813 34	—					F_2 fold hinge
		3995	C S 2	-		410 090	622	Defined by micaceous fltn & fine pyrite bands.
		4115	P S 2			— —	555	Defined by micaceous fltn
		4555	P S 2			— —	505	" " "
		4766	C S 2	S		130 25	888	S_2 defined by micaceous fltn & pyrite bands S_1 by comp. banding
		4905	C S 2	S		450 100	688	Defined by pyrite & sphalerite bands
		5110	P S 2	—		T T	515	S_2 defined by Py & Sph bands (comp. banding present) AR,
		5311 5	C S 2	S		250 100	710	S_2 defined by 'altered muse' banding (comp banding present.
		5317 5	P S 2	—		T T	855	" " "
		5414 5	T T	—		T —	T	Fold Nose Present.
		5611 0	C S 2	Z		211 218	417	S_2 defined by Py banding micaceous fltns present.
		5740	C S 2	S		550 100	655	S_2 defined by 'altered muse' & Ni lamination in altered meta basite.
		5970	C S 2	Z		101 180	622	S_2 defined by Py & Sph banding.
		626	P S 2	—		— —	72	" " " " "
		631	C S 2	Z		37 221	63	micaceous fltns present

5760 F2 fold nose present

DDH 89G-16 CURRAGH RESOURCES INC.

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Logged by _____

ASSAY LOG (SAMPLER'S COPY)

Date Aug 23/89 Sampled by _____

CODE	FROM	TO	SAMPLE	INTR.	REC (m)	UNIT	DESCRIPTION
1	10 0 14	16 103.5 20	22 0 26	28 30	32 34	36 WASTE 40	42
	103.5 / 339.5	104.5 / 343.0	14912	1.0	0.6	5C$7	(4D0)
	343.0	106.1 / 348.0	13	1.6	1.4	5C$7	
	348.0	107.0 / 351.0	14	0.9	0.8	4D0	
	351.0	107.9 / 354.0	15	0.9	0.7	4D0	
	354.0	110.9 / 364.0	16	3.0	0.3	4D0	poor recovery
	364.0	112.6 / 369.5	17	1.7	1.0	4D0	
	369.5	113.5 / 372.5	18	0.9	0.6	4D0	
	372.5	114.8 / 376.7	19	1.3	1.1	4D0 I 5	
	376.7	115.5 / 378.9	14920	0.7	0.5	5C4$	
	378.9	116.5 / 382.1	21	1.0	0.7	4AD	
	382.1	118.2 / 387.7	22	1.7	1.1	4A4	
	387.7	120.1 / 394.0	23	1.9	1.1	4D/15C	
	394.0	121.5 / 398.5	24	1.4	1.1	4AD	
	398.5	122.9 / 403.3	25	1.4	1.4	5C4$	4D0
	403.3	124.1 / 407.0	26	1.2	1.1	4D4	
	407.0	126.2 / 414.0	27	2.1	0.3	4D4	poor recovery – mislatch
	414.0	127.6 / 418.5	28	1.4	1.0	4D4/15C4$	
	418.5	129.1 / 423.7	29	1.5	1.1	4ABXA	
	423.7	130.4 / 427.7	14930	1.3	1.1	5C46	/4D0
	427.7	131.5 / 431.5	31	1.1	0.7	5C46	
	431.5	132.8 / 435.7	32	1.3	0.5	5C46	poor recovery
	435.7	134.4 / 441.0	33	1.6	0.4	4D0	
	441.0	136.1 / 446.5	34	1.7	1.0	5AC	GOUGE
	446.5	137.6 / 451.5	14935	1.5	1.2	5AC	gouge
	137.6	141.6	0			WASTE	
	141.6 / 464.5	142.6 / 467.7	14936	1.0	1.0	4D45	
	467.7	143.7 / 471.5	37	1.1	1.1	5C46	/4D45
	471.5	144.5 / 474.1	38	0.8	0.8	4A4	
	474.1	145.8 / 478.3	14939	1.3	1.3	4AD	
	145.8	146.5	0			WASTE	
	146.5 / 480.5	148.1 / 485.9	14940	1.6	1.6	4A4	
	148.1	148.7	0			WASTE	
	148.7 / 487.9	150.1 / 492.5	41	1.4	1.4	4EA	
	492.5	151.9 / 498.3	42	1.8	1.8	4D4	
	498.3	153.2 / 502.5	43	1.3	1.2	5D/14D	
	502.5	154.5 / 507.0	44	1.3	1.2	5C46	

DDH 89G-16 (2–8) CURRAGH RESOURCES INC. Page ____ of ____

Logged by ____

ASSAY LOG (SAMPLER'S COPY)

Date Aug 23/89 Sampled by ____

CODE	FROM	TO	SAMPLE	INTR.	REC (m)	UNIT	DESCRIPTION
1	10–14	16–20	22–26	28–30	32–34	36–40	42
	50.70	50.94	14945	0.9	0.8	5C416	
	50.99	51.47	14946	1.3	1.1	4E4 $	±6 ±1
	51.41	51.80	14947	1.2	1.1	4D0±4	
	51.80	52.08	14948	1.1	1.1	4D0±4	
	52.18	52.63	14949	1.4	1.4	4D0±4	
	160.4	165.4	~~[illegible]~~	—	—	WASTE	
	165.46	166.54	14950	1.1	1.1	4D4	
	54.64	55.00	14986	1.1	0.7	4D4	
	167.6	169.2	—	—	—	WASTE	
	169.21	170.54	14987	1.3	1.2	4A4	
	55.94	56.42	14988	1.5	1.3	4A4	
	56.42	56.94	14989	1.6	1.3	4A4	
	56.94	57.32	14990	1.1	1.0	4A4	
	174.7	177.6	—	—	—	WASTE	
	177.68	178.85	14991	1.2	1.2	4D4	
	58.65	58.97	14992	0.9	0.9	4D4	
	58.97	59.38	14993	1.3	1.3	4A4	
	59.38	59.74	14994	0.2	0.2	4A4	
	59.74	60.40	14995	2.9	1.2	4A4	
	60.40	60.89	14996	1.5	1.5	4D54	
	185.6	187.5	—	—	—	WASTE	
	187.53	189.69	14997	2.1	2.1	4D43	
	189.6	190.3	—	—	—	WASTE	
	190.35	191.24	14998	0.9	0.9	4AH43	
	191.2	193.5	—	—	—	WASTE	

PROJECT _____ DRILLHOLE NO. DDH89G-16 COORDINATES: N _____ DATE _____ 19__

LOCATION _____ HOLE SIZE _____ E _____ PAGE 1 of 4

LOGGER T. DORIN INCLINATION _____ ELEVATION _____

PITEAU & ASSOCIATES
GEOTECHNICAL CONSULTANTS
VANCOUVER CALGARY

GEOTECHNICAL CORE LOG

DEPTH (TO)	LENGTH OF RUN	CORE RECOVERY		RQD		HARDNESS	DEGREE OF BREAKAGE		DEGREE OF WEATHERING	ROCK TYPE	BEDDING DIP		BEDDING JOINTS		CROSS JOINTS		COMMENTS
		LENGTH	%	LENGTH	%		CATEGORY	NO.			DEPTH	ANGLE	NO.	FREQ.	NO.	FREQ.	
14	14	2.6		0			6		E						0		
19	5	3.4		0			6		E						1		
23.5	4.5	3.3		0			6		E						1		
29	5.5	4.6		0			6		E						1		
33	4	2.7		0			6		E						1		
35.5	2.5	2.3		0			6		E						1		
46	10.5	2.4		0			6		E						1		
49	3	3		0			6		E						0		
52	3	1.8		0			6		E						0		
57	5	2		0			6		E						1		
62.5	5.5	4		0			6		E						0		
70.5	8	1.7		0			6		E						0		
72.5	2	.7		0			6		E						0		
75.5	3	2.3		0			6		E						1		
77	1.5	1.2		0			6		E						0		
83	6	4.2		0			6		E						2		
88.5	5.5	4.5		0			7		E						1		
92	3.5	2.5		0			6		E						0		
95	3	2.5		0			6		E						1		
101	6	6		0.85			6		F						2		
109	8	7.6		2.15			7		F						0		
119.5	10.5	10.5		0.4			6		F						0		
127	7.5	6.4		0.85			6		F						0		
134	7	6.3		0.35			6		E						0		
135.5	1.5	1.5		0.35			6		F						0		
137	1.5	1.5		0			6		F						0		
139	2	1.7		0			6		E						2		
142.5	3.5	2.2		0			6		F						0		

Fig. 1. Typical rock mechanics core log.

PROJECT _____ DRILLHOLE NO. DH89G-16 COORDINATES: N _____ DATE _____ 19__

LOCATION _____ HOLE SIZE _____ E _____ PAGE 2 of 4

LOGGER J. [illegible] INCLINATION _____ ELEVATION _____

PITEAU & ASSOCIATES
GEOTECHNICAL CONSULTANTS
VANCOUVER CALGARY

GEOTECHNICAL CORE LOG

DEPTH (TO)	LENGTH OF RUN	CORE RECOVERY		RQD		HARDNESS	DEGREE OF BREAKAGE		DEGREE OF WEATHERING	ROCK TYPE	BEDDING DIP		BEDDING JOINTS		CROSS JOINTS		COMMENTS
		LENGTH	%	LENGTH	%		CATEGORY	NO.			DEPTH	ANGLE	NO.	FREQ.	NO.	FREQ.	
144.5	2			0			6		F						0		
150	5.5	5.5		0.7			7		F						0		
160.5	10.5	10.5		2.9			7		F						0		
164.5	4	3.3		2			6		F						0		
175	10.5	10.5		4.75			9		F						0		
185.5	10.5	10		3.55			8		F						1		
195.5	10	10		1.9			6		F						1		
206	10.5	10		1.0			6		F						0		
212	6	6		0			6		F						1		
222	10	10		2.8			7		F						2		
232	10	8.8		3.25			7		F						1		
242	10	10		7.4			10		E						1		
247	5	5		3.75			9		E						1		
257	10	10		5.65			9		F						0		
261	5	4.7		0			6		F						0		
267	6	5.3		0.35			6		F						3		
273	6	2.5		0			6		F						0		
283	10	10		1.6			6		F						0		
293	10	9.5		0.4			7		F						2		
303	10	9.7		0.35			6		F						1		
313	10	9.6		4.85			9		F						2		
321	8	5.8		0.75			6		F						1		
326.5	5.5	3.9		0			6		E						3		
333.5	7	4.3		0.35			6		F						0		
339.5	6	1.4	23%	0			6		E						0		
343	2.5	2	57%	0			6		F						0		
351	7	7	88%	0			6		F						0		
354	3	2.2	73%	0			6		F						3		

Fig. 1. Typical rock mechanics core log.

PROJECT _____ DRILLHOLE NO. DDH89G-16 COORDINATES: N _____ DATE _____ 19__

LOCATION _____ HOLE SIZE _____ E _____ PAGE 3 of 4

LOGGER I. DORN INCLINATION _____ ELEVATION _____

PITEAU & ASSOCIATES
GEOTECHNICAL CONSULTANTS
VANCOUVER CALGARY

GEOTECHNICAL CORE LOG

DEPTH (TO)	LENGTH OF RUN	CORE RECOVERY		RQD		HARDNESS	DEGREE OF BREAKAGE		DEGREE OF WEATHERING	ROCK TYPE	BEDDING DIP		BEDDING JOINTS		CROSS JOINTS		COMMENTS
		LENGTH	%	LENGTH	%		CATEGORY	NO.			DEPTH	ANGLE	NO.	FREQ.	NO.	FREQ.	
364	10	9.9	99%	0			6		F						0		
370.5	6.5	3.8	58%	0			6		F						3		
372.5	2	1.3	65%	0			6		F						1		
375	2.5	2.1	84%	0			6		F						1		
380	5	3.5	70%	0			6		E						1		
388	8	5.2	65%	0.8			6		E						2		
394	6	3.6	60%	0			6		E						1		
398.5	4.5	3.4	76%	0			6		E						0		
405	6.5	6.5	100%	1.1			7		F						2		
407	2	1.5	75%	0.35			6		F						0		
414	7	0.9	13%	0			6		E						0		
415	1	0.7	70%	0			6		E						0		
421	6	4.3	72%	1.45			6		E						4		
428	7	5.7	81%	0.35			6		E						1		
429	1	0.8	80%	0			6		E						2		
431.5	2.5	1.3	52%	0			6		F						1		
436.5	5	1.9	38%	0			6		F						0		
441.5	5	1.4	28%	0			6		E						3		
445	3.5	2	57%	0			3		F						0		
451.5	6.5	5.4	83%	0			2		F						0		
455.5	4	2.6	65%	0.9			7		F						3		
460	4.5	3.5	78%	0			6		F						1		
470	10	10	100%	6.8			10		F						5		
480	10	10	100%	1.9			7		F						11		
490	10	10	100%	3.4			7		F						6		
497	7	7	100%	5.5			10		F						5		
507	10	9.1	91%	3.65			7		F						2		
515	8	6.7	84%	2.7			7		F						3		

Fig. 1. Typical rock mechanics core log.

PROJECT _____ DRILLHOLE NO. 2429 G-16 COORDINATES: N _____ DATE AUG. 17 1989

LOCATION _____ HOLE SIZE _____ E _____ PAGE 4 of 4

LOGGER I. DAVIS INCLINATION _____ ELEVATION _____

PITEAU & ASSOCIATES
GEOTECHNICAL CONSULTANTS
VANCOUVER CALGARY

GEOTECHNICAL CORE LOG

DEPTH (TO)	LENGTH OF RUN	CORE RECOVERY		RQD		HARDNESS	DEGREE OF BREAKAGE		DEGREE OF WEATHERING	ROCK TYPE	BEDDING DIP		BEDDING JOINTS		CROSS JOINTS		COMMENTS
		LENGTH	%	LENGTH	%		CATEGORY	NO.			DEPTH	ANGLE	NO.	FREQ.	NO.	FREQ.	
516.5	.5	.2	80%	0			6		E						1		
536.5	20	10	100%	2.45			7		F						2		
536.5	20	20	100%	4.0			7		F						0		
547	10.5	10.1	96%	4.7			9		F						2		
547.5	2.5	1.7	68%	0			6		F						2		
555.5	6	5.5	92%	1.6			7		F						4		
561	5.5	5	91%	0			6		E						4		
568	7	5.5	79%	1.65			6		F						5		
570	2	2	100%	0.45			6		F						1		
573.5	3.5	3.3	94%	0			6		F						2		
583.5	10	9.7	97%	3.6			7		F						4		
593	9.5	10	100%	4.2			7		F						1		
598	5	4.7	94%	0.55			6		F						4		
600	2	1.6	30%	0			6		E						0		
604	4	2.1	53%	0			6		E						1		
613	9	9.7	97%	3.05			7		F						3		
615.5	2.5	2.5	100%	0			6		E						1		
626	10.5	10.5	100%	5.15			9		F						2		
634	8	8	100%	4.6			8		F						1		
634.5	0.5	0.4	90%	0			6		E						0		
635	0.5	0.25	50%	0			6		E						0		
						EOH											

Fig. 1. Typical rock mechanics core log.

89-G-17

CURRAGH RESOURCES INC.

Page 1 of ____

DIAMOND DRILL CORE LOG

Date: _____

Hole Number: 89G-17

Reference Fabric Orientation Diagram:

Project: 1989 GRUM FILL-IN

Location: _____

Claim: _____

~~Terr.~~ Mine Plane Co-ords.: 6905224.155 N 6,637,56 N

592183.074 E 2,825,79 E

Grid Co-ords: 82W / 7N

Elevation: 1304.341

All symmetry determinations looking

Total Depth: 529 feet

_____ with _____ dipping

Inclination: -60° to NE

_____ with dip azimuth _____.

Purpose: _____

Reason hole Terminated: _____

Logged by: _____

Date(s) Logged: _____

Drilling Contractor: ARCTIC

Hole Cemented: _____ Steel down Hole: _____

Assay Lab: _____

Certificate No's: _____

CORE Size	From	To	
NW	0	10	feet
NQ	10	_____	
_____	_____	_____	

Collar Cased and Capped: _____

Started: July 17/89 Completed: July 20/89

C.R.I. 1987 E - 1

CURRAGH RESOURCES INC.

Diamond Drill Core Log

DDH 89G-17 (2 – 8)

Date: _____ Logged By: _____

Code	Drillhole	Elevation	Northing	Easting	Units (feet/metres)	R.F.E.	
	2 – 8	10 – 16	17 – 24	25 – 32	34 – 39	41 – 42	
T							

FEET

Code	Drillhole	Depth	Zenith Angle	True Azimuth	Comments
	2 – 8	10 – 14	22 – 26	28 – 32	34 – 56
R	89G-17	10.0	-61.0°	014.2°	AT COLLAR
R		202.0	-59.0°	014.6°	SPERRY SUN
R		352.0	-61.1°	014.9°	SPERRY SUN
R		502.0	-61.3°	015.8°	SPERRY SUN
R			.	.	
R			.	.	
R			.	.	
R			.	.	
R			.	.	
R			.	.	
R			.	.	
R			.	.	
R			.	.	
R			.	.	
R			.	.	
R			.	.	
R			.	.	
R			.	.	
R			.	.	
R			.	.	
R			.	.	
R			.	.	
R			.	.	
R			.	.	
R			.	.	

Code	Drillhole	Comments, Errant Remarks, Snivellings and / or Lewd Suggestions
	2 – 8	10 – 56

DDH 89G-17

FEET 2 8

CURRAGH RESOURCES INC.

Lithologic Log

Date: Aug 10/89 Logged By: LCP

From	To	Recov.	No.	Unit	Description
100	110	0	1	#1	TRICONED — NO RECOVERY
	30	0			
110	313	0	2	5B1713	(500) 70:30
	310	1			Interbanded mixture of two chlorite ± muscovite phyllites that are often difficult to distinguish in core. Dominant unit is soft, CS2-foliated, pale greenish, veiny calcareous, thinly banded chlorite-muscovite phyllite. S2 surfaces are pale silvery green. Contains numerous thin white calcite-qtz compositional bands forming S1 microlithons within S2. Locally also contains 1-3 cm thick pale grey marble bands parallel S1.
					Lesser lithology is pale olive, CS2-foliated to FS2-foliated, calcareous, soft chlorite phyllites. S2 surface is pale olive, rougher textured and not as micaceous as above lithology. Contains calcite-qtz veinlets deformed into folds by S2. Also has diffuse calcite-rich compositional bands defining coarse S1 microlithons. Distinguished from above unit by olive colour, more homogeneous aspect, less micaceous S2 surfaces.
					TOI-16.6 Very poker chippy, rubbly w/ gouge. Only 1.5 feet core. S2 surfaces and fractures have patchy orange-brown weathering coat. // 16.5-22.7 mod. broken - about 2 feet missing 16.5-22 // 22.7-25 very broken & poker chippy w/ incipient gouge - recovery OK // 25-EOI mod. broken to mod. poker chippy recovery OK except 28-30 which only has 1.5 feet core.
313	614	0	3	5B1017	
	198				Soft, thinly banded, CS2-foliated, calcareous, pale greenish grey phyllite. Cut surface has definite medium green-grey tinge/hue when wet. S2 surfaces range from steely grey, through silvery grey, to pale greenish silvery. Qtz-calcite forms thin compositional bands defining S1 microlithons. Margins of these pale grey bands

DDH B-96-17
2 8

CURRAGH RESOURCES INC.
Lithologic Log

Date: Aug 10/89 Logged By: LCP

Code	From	To	Recov.	No.	Unit	Description
1	10 14	16 20	22 24	26 28	30 34	35
		1614 B		13		often consist of S2-parallel pressure soln stripes. Pyrite forms "smears/streaks" on S2 foliation surfaces.
						TOI-37.5 Very broken, rubbly, w/ gouge. Only 3.5 feet recovered. gouge contacts indeterminate - appear parallel S2 // 37.5-48.5 mod poker chippy w/ local rubble interval 42-45 has 2 feet core; otherwise recovery OK // 48.5-EOI mod to very poker chippy w/ local gouges 49-52 has 2 feet core, 52-56 has 2.5 feet core, 56-61.5 has 2 feet core, 61.5-65.0 has 1.5 feet core. Related to next unit which is gouge w/ much core loss. Possibly significant fault
	1614 B	1714 0		14	GOUGE	
		22 6				Pale silvery green grey mud gouge. No orientations preserved at margins. Interval 65-70.5 has only 0.3 feet core, 70.5-74.0 has 1.5 feet core. Obviously poor recovery Significant fault?
	1714 0	1814 3		15	SIBIOI7I	(SDO) 75:25
		25 7				Soft, pale grey, dominantly PS2-foliated, calcareous phyllite. Cut surfaces has definite medium green hue when wet. S2 surfaces are silvery greenish grey locally has thin pale grey to off-white calcite-qtz siltstone bands/laminae. When present they define S1 microlithons within S2 pressure soln foliation.
						Interval 80.2-82.8 consists of soft, pale olive, calcareous, PS2-foliated chloritic phyllite. S2 surfaces are silvery pale olive. Contains numerous thin white qtz-calcite veinlets generally parallel S1 and folded by S2. More homogeneous than major lithology Marginal contacts are sharp.
						Core mod. broken and mod poker chippy. Intvl 83-83.5 very broken and rubbly Recovery OK for entire unit

DDH 89G-17
2 8

CURRAGH RESOURCES INC.
Lithologic Log

Date: Aug 10/89 Logged By: LGO

Code	From	To	Recov.	No.	Unit	Description
1	10 14	16 20	22 24	26 28	30 34	35
	1814 3	1819 4		16	15B1$1	
		27 2				Medium grey, dolomitic, CS2-foliated, thinly banded phyllite. Contains sparse scattered pyrite euhedral porphyroblasts. S2 surfaces are silvery grey to steely grey. Soft. Contains thin pale grey qtz-dolomite siltstone bands. Typically these are folded to form S1 microlithons. They weather pale tans.
						Core mod. broken w/ good recovery.
						Could possibly be considered 5B$2 MINOR because of slightly darker grey colours.
	1819 4	1111 5		17	15B1710	(5DO) (5B$) 65 : 25 : 10
		34 0				Dominant unit is pale green, soft, calcareous, thinly banded, CS2-foliated phyllite. S2 surfaces are pale silvery green. Locally S2 is patchily silvery grey. S1 microlithons defined by thin qtz-calcite compositional bands/laminae. (5B70)
						Contains two interbands of soft, calcareous, pale olive, PS2-foliated chlorite phyllite. S2 surfaces are pale silvery olive. More homogeneous than above lithology. Contains diffuse calcareous compositional bands up to 2 cm thick. Also has thin white qtz-calcite veinlets. Marginal contacts generally hidden in rubble. (5D)
						At TOI have combination of Unit # 6 (84.3-89.4) only very broken & rubbly. Some soft, medium grey, dolomitic, thinly banded, CS2-foliated phyllite. S2 surfaces silvery grey to steely grey. Qtz-dolomite siltstone bands define S1 microlithons.
						TOI-91.5 Very broken and rubbly. Only 2 feet core. 89-91.5 / 91.5-94.0 mod. to very broken, recovery OK // 94.0-EOI Very broken and rubbly w/ much core loss. 94-97 only 1 foot core, 97-102 1.5 feet core w/ 0.5 feet mud gouge, 102-107.5 only 3 feet core, 107.5-109.5 recovery OK w/ 2 feet core, 109.5-EOI recovery probably OK because core only mod. broken. Total 109.5-114.5 has 3 feet core w/ major loss on next unit.
						No orientations possible - core broken dominantly along S2.

DDH BG-17

CURRAGH RESOURCES INC.

Lithologic Log

Date: Aug 10/89 Logged By: KCP

Code	From	To	Recov.	No.	Unit	Description
1	10 14	16 20	22 24	26 28	30 34	35
	111115	113125		18	15B101	±2 Minor (SDO) 80:20 GOUGE
		40 4				Medium grey to dark grey mud gouge. Except last 4 feet consist of pale silvery green mud gouge. Some chunks of qtz vein. Internal slip surfaces preserved indicate steep fault. Recovery is not good
						TOI - 114.5 probably has 2 feet core loss // 114.5 - 116.5 has 1.8 feet core. // 116.5 - 122 only 2.5 feet core // 122 - 124 only 0.5 feet core. // 124 - 128.5 only 2.8 feet core // 128.5 - 132 only 1 foot core.
						At 116.5 internal shear surfaces 0° and 10° wrt core axis
						At 126 internal shear surface 10° wrt core axis
						Possible significant fault?
	113125	115125		19	15B1710	(SDO) 60:40
		46 2				Soft, pale green, poorly CS2-foliated to PS2-foliated, calcareous, chlorite-muscovite phyllite. Thinly banded w/ small, white calcite-qtz microlithons. Microlithons only poorly preserved as dominant S2 fabric - got series of isolated fold hinges hooks within S2 cluge. S2 surfaces are silvery pale green.
						Other lithology occurs mainly as two large interbands. Soft, PS2-foliated, pale olive, slightly calcareous chlorite phyllite. Contains numerous thin white qtz-calcite veinlets parallel S1 and S2. Marginal contacts not readily visible because of similarity of these two lithologies. Distinguished by qtz-calcite veinlets and more homogeneous appearance. S2 surfaces are silvery pale olive.
						Core mod. broken w/ good recovery.
	115125	118165		110	15B1210	(SA3)(SDO) 70:25:05
		56 8				Dominant unit is moderately soft, CS2-foliated, dark grey, calcareous, thinly banded phyllite. S2 surfaces are silvery grey to dark steely grey and do not readily mark

DDH 89G-17

CURRAGH RESOURCES INC.
Lithologic Log

Date: Aug 10/89 Logged By: LCP

Code	From	To	Recov.	No.	Unit	Description
1	10 14	16 20	22 24	26 28	30 34	35
		1186 5		110		the fingers. Contains abundant thin, pale grey, qtz-calcite siltstone bands. These typically form S1 microlithons which are locally bounded by S2 pressure soln. stripes. Locally the siltstone bands have a pale green colour from fine disseminated chlorite associated w/ qtz veins. Minor disseminated euhedral pyrite grains/porphyroblasts. (5B20)
						Second lithology is moderately hard, very calcareous, CS2-foliated, very dark grey to black phyllite. S2 surfaces are shiny black and moderately mark fingers. Calcite disseminated in very dark grey to black qtz-siltstone bands up to 5 cm thick. Contains numerous small euhedral pyrite porphyroblasts. Lithology occurs dominantly near TOT and EOI. (5A3) It is more qtz siltstone rich and less micaceous than typical 5A.
						In lower ½ of interval have thin interbands of pale olive to pale green, calcareous, soft, PS2-foliated, chloritic phyllites. Maximum thickness 25cm. S2 surfaces pale to medium, shiny olive green. Contains diffuse grey calcite veinlets parallel S1. Marginal contacts are sharp parallel S1. Contains minor subhedral pyrite porphyroblasts.
						TOI - 153 Very brken & rubbly w/ possibly 1 foot core loss // 153-157 mod brken w/ good recovery // 157-162 very brken to mod. brken - only 1.5 feet core // 162-165 have 0.6 feet of reground chunks of core // 167-172 mod. brken, about 4.5 feet core and statement of mislatch @ 172 // 172-EOI mod. brken w/ OK core recovery
	1186 5	1194 6		111	15D01$	(5B20) TRACE
		59 3				Dominantly a moderately soft, calcareous, homogeneous, PS2-foliated, medium olive chloritic phyllite. S2 surfaces are shiny, micaceous olive. Calcite in thin beaded veinlets and disseminated in matrix for compositional bands. Locally contains disseminated 1-2 mm dolomite rhombs in matrix. Minor 1-3 cm interbands of very dark

DDH B9G-17
2 8

CURRAGH RESOURCES INC.
Lithologic Log

Date: Aug 16/89 Logged By: LCP

Code	From	To	Recov.	No.	Unit	Description
1	10 14	16 20	22 24	26 28	30 34	35
						grey to black, moderately hard phyllite. S2 surfaces shiny black & moderately mark fingers. Core slightly to moderately broken w/ good recovery.
	11914 6	12017 0		1112	15B1213	(5D0) 95:05
		63 1				Mainly a very calcareous, dark grey, CS2-foliated, thinly banded, moderately soft phyllite. Contains minor scattered pyrite porphyroblasts. Contains small black siliceous "cherty" nodules very elongate in S2 foliation. Abundant pale grey to very dark grey qtz-calcite siltstone bands. Generally bands are folded to define S1 microlithons. Locally the bands have a pale green tinge from disseminated chlorite (??) S2 surfaces steely grey to shiny black.
						Contains thin interbands of homogeneous, calcareous, PS2-foliated, medium olive chloritic phyllite. S2 surfaces are shiny micaceous silvery green.
						Core mod. broken w/ good recovery
	12017 0	12115 8		1113	15D101	(5B20) 75:25
		65 8				Moderately soft, PS2-foliated, medium olive, calcareous chloritic phyllite. S2 surfaces are micaceous shiny green. Contains disseminated calcite in compositional bands up to 3 cm thick. Also has beaded light grey calcite veinlets parallel S1. Qtz veins typically have a pale olive green selvage up to 3mm thick. Minor scattered pyrite porphyroblasts.
						Interval 212-214.5 consists of medium grey, slightly calcareous, mainly PS2-foliated, moderately soft phyllite. S2 surfaces are steely grey to shiny dark grey. Thinly banded w/ compositional banding defined by shades of grey in phyllite.
						TOI-212 core slightly broken w/ good recovery // 212-213.5 between mod. broken & very broken w/ good recovery // 213.5-EOI mod broken w/ good recovery.

DDH 89G-17

CURRAGH RESOURCES INC.
Lithologic Log

Page 9

Date: Aug 10/89 Logged By: LCP

Code	From	To	Recov.	No.	Unit	Description
1	10 14	16 20	22 24	26 28	30 34	35
	2115 8	2240		114	5B312	± 7
		68 3				Moderately soft, very calcareous, CS2-foliated, medium dark to very dark grey, thinly banded phyllite. Lowermost 2 feet becomes progressively greener from silvery grey as go down DDH. S2 surfaces range from shiny black, through silvery grey, to pale silvery green. Contains abundant thin qtz-calcite bands defining S1 microlithons. Uppermost 1 foot is very dark grey, - S2 has rough surface - overall gives an appearance of coherent shearing, no hxa developed. Core mod. brken w/ good recovery. Entire unit becomes gradually "bleached" and pale green as approach next unit.
	2240	2460		115	5D01	(5B70) 85:15
		75 0				Mainly a moderately soft, PS2-foliated, calcareous, olive chloritic phyllite. S2 surfaces are shiny, micaceous olive. Contains S1 parallel stripes of pale grey calcite disseminated in chlorite matrix. Also numerous veinlets of calcite-qtz parallel S1. Lesser interbands of moderately hard, pale green, calcareous, thinly banded chlorite phyllite. S2 surfaces are silvery pale green. Banding defined by qtz-calcite siltstone bands. Siltstone bands are typically also very pale green. This lithology is poorly to well CS2-foliated. TOI - 228.5 mod. to very brken w/ good recovery // 228.5 - 232.0 very brken & rubbly w/ gouge - only 2.8 feet core recovered // 232.0 - EOI mod. brken w/ good recovery.
	2460	2788		116	5B$1	± 2 MINOR (5D$ ± 4) 90:10
		85 0				Moderately soft, dolomitic, medium to medium dark grey, CS2-foliated, thinly banded phyllite. S2 surfaces range from silvery grey to steely grey. S1 microlithons defined by pale grey siltstone bands. Siltstones weather tan. Locally the siltstones contain disseminated pale green actinolite (?).

DDH 89G-17

CURRAGH RESOURCES INC.
Lithologic Log

Date: Aug 10/89 Logged By: LCP

Code	From	To	Recov.	No.	Unit	Description
1	10 14	16 20	22 24	26 28	30 34	35
		2718 8		116		Contains thin interbands of soft, PS2-foliated, slightly dolomitic, olive to pale tan phyllite. Olive near TOI and becoming progressively more tan toward EOI this corresponds to shift from chloritic phyllite to muscovite phyllite. Near EOI also see minor bright blue green "fuchsite" streaks in muscovite phyllite. Thickness generally less than 15 cm Marginal contacts sharp parallel S1. TOI-250.0 mod. poker chippy - only 1.5 feet core between 247-249.5 // 250-266 mod to slightly brken Note of mistakh @ 266 w/ loss of 1 foot of core // 266-EOI mod. brken w/ good recovery
	2718 8	2810 0 85 3		117	5B2 $	(4E1) 60:40 Top 0.3 feet consists of PS2-banded, noncalcareous, hard, siliceous pyrite Fine-grained, brassy yellow. Irregular matrix of light grey qtz. S2 banding poorly defined by wisps of carbonaceous folia. Pyrite content 80% Estimated grade 1% Pb+Zn Rest of interval is same as previous unit #16 (246.0 - 278.8) Medium dark grey, slightly dolomitic, poorly CS2-foliated, thinly banded phyllite. S1 microlithons defined by pale grey qtz-dolomite siltstone bands. S2 surfaces are steely grey. Core mod. brken w/ good recovery
	2810 0	3016 5 93 4		118	4A4 4	± 3 (5D4 $) TRACE Very hard, noncalcareous, dark grey, qtz- S= ribbon-banded qtzite. S2 surfaces are sooty to shiny black and moderately to strongly mark fingers. CS2-foliated w/ S1 microlithons defined by alternating pale grey qtz-pyrite-sphalerite bands and dark grey, fine grained "cherty" qtzite. Dark grey bands tend to be barren of sulphides. Sphalerite >> pyrite Pyrite tends to be coarse-grained, irregular grains. Sphalerite fine-grained reddish brown. Pyrite dominantly disseminated in diffuse compositional bands parallel S2 up to 5cm thick. Sphalerite occurs along both S1 and S2 pressure soln stripes

DDH 89G-17 (2–8)

CURRAGH RESOURCES INC.
Lithologic Log

Page 11

Date: Aug 11/89 Logged By: LCP

Code	From	To	Recov.	No.	Unit	Description
1	10–14	16–20	22–24	26–28	30–34	35
		13016 5		118		with S2 shrapes being larger / thicker. Estimated grade 15-20% (Pb+Zn). Pyrite content ranges from 10%-40%. Bottom 0.5 foot against next unit is progressively bleached to an off-white to pale grey qtzite. (4DO)
						At 301 have about 1 foot of moderately soft, slightly dolomitic, PS2-foliated pale cream muscovite phyllite. S2 surfaces are silvery white. Interval weathers pale tan. (5D4$)
						Interval slightly to moderately broken w/ good recovery. No major breaks in unit.
	13016 5	13110 2 94 5		119	5D$	± 4 MINOR (4DO) MINOR [5C8$ ± 4 MINOR]
						Moderately soft, PS2-foliated, medium green, slightly dolomitic chlorite phyllite. S2 surfaces are medium chlorite green. Unit is darker green than typical 5D. Contains diffuse compositional bands which are greenish grey and more dolomitic. Generally these bands weather to a pale tan. Also contains thin, tan-weathering qtz-dolomite veinlets. Both veinlets and compositional bands are folded by S2/D2. Marginal contacts are sharp, subparallel S2.
						Contains a few 1-5 cm thick interbands of off-white, noncalcareous qtzite. Qtzite typically contains thin S2- and S1-parallel sphalerite ± pyrite compositional bands. Estimated grade 5-7% (Pb+Zn) w/ sphalerite >> pyrite.
						Core intact w/ good recovery.
	13110 2	13211 1 97 9		120	4C	@ MINOR "CHLORITIC" (5C8$ ± 7) 90:10 Photo + sample taken
						Very hard, noncalcareous, PS2-foliated qtzite. Dry colour is grey w/ slight greenish tint. Wet colour is medium green. S2 surfaces are medium chlorite green. Pyrite and sphalerite forms compositional bands parallel S2. Sulphides disseminated in qtz. Margins of bands are diffuse. More pyritic bands can be locally up to 5cm thick. Minor sulphides also occur as fracture infillings. Locally can imagine a barely discernible S1 in qtzite.

DDH Big-6-17

CURRAGH RESOURCES INC.

Lithologic Log

Date: Aug 11/89 Logged By: LCP

Code	From	To	Recov.	No.	Unit	Description
1	10 14	16 20	22 24	26 28	30 34	35
						Pyrite >> galaksite. Estimated grade about 4-5% (Pb+Zn). Contains thin white qtz veinlets parallel S1. Minor grey rhombs of ankerite associated w/ sulphides. This unit has appearance of an silicified and mineralized SD metabasite. Includes thin white qtz veinlets like in SD. — but see following description.
						At 314.6 - 316.7 have moderately soft, PS2-foliated, medium green, slightly dolomitic chlorite phyllite. In centre of lithology unit becomes pale tan and green striped (zebra rock). Convincing metabasite. Contacts w/ enclosing 4C green are sharp, parallel both S1 and S2. Interestingly - at one contact have thin white qtz veins which crosses from the 4C to the 5C with no problem.
						Core intact w/ good recovery.
	131.11	135.18	5		1211	15C17 ± $
		109.3				ZEBRA ROCK (5C8 ± $) [5D6 ± $] 90:10
						Soft, CS2-foliated, slightly dolomitic, medium green and white striped chlorite-muscovite (?) phyllite. Thin anastomosing, streaky chlorite laminae defining both S1 and S2 foliations in a soft, micaceous, white, slightly dolomitic matrix. S2 surfaces are striped medium green and white. Sparse, scattered euhedral pyrite porphyroblasts present.
						Intervals TOI - 332.2, 347.8 - 351.7 consist of soft, medium green, PS2-foliated, noncalcareous to slightly dolomitic chlorite phyllite. S2 surfaces are medium chloritic green. Marginal contacts w/ 5C7 are sharp at TOI and more gradational at EOI.
						Unit also contains some qtz vein and possible pbtic bands generally parallel S2. These contain very minor pyrite, galaksite, galena. No grade on any of these bands.
						Entire unit core intact to slightly broken w/ good recovery. Interval 352-355 has late fractures 45° wrt core axis w/ some slip along fractures which reduces the overall strength of this interval.

DDH BGG-17 (2 8)

CURRAGH RESOURCES INC.
Lithologic Log

Date: Aug 11/89 Logged By: LCP

Code	From	To	Recov.	No.	Unit	Description
	131518.5	131614.0 (110.9)		1212	15D1$1	±4 Soft, PS2-foliated, pale olive, homogeneous chlorite phyllite. Slightly dolomitic. Weathers w/ a slight tan tinge. Contains minor thin qtz-dolomite veinlets folded by S2. S2 surfaces olive green w/ tan tinge. As go down DDH unit changes to pale tan, soft, dolomitic, PS2-foliated muscovite phyllite. S2 surfaces are silvery cream. Tan phyllite contains sparse spots and streaks of bright blue-green "fuchsite". TOI-361 core slightly broken w/ good recovery. // 361-EOI core mod. broken w/ good recovery
	131614.0	131716.7 (114.8)		1213	15D141$	(5C4$ "ZEBRA ROCK")(4A0 ± GOUGE)(4C0 ± 5) 30:30:25:15 ? FAULT? Interbanded series of lithologies. All show shearing / faulting textures. Contacts typically tectonic rather than conformable. Seems to be a steep shear / fault zone. Moderately soft, PS2-foliated, slightly dolomitic, pale tan muscovite phyllite. S2 surfaces are silvery cream. Contains streaks / spots of bright blue-green "fuchsite" Soft, poorly C.S2-foliated, pale grey dolomitic, "Zebra Rock" metabasite. Anastamosing laminae of bright-blue-green "fuchsite". No chlorite remains in the lithology. Alteration is extensive. Pale grey, to medium grey, very hard, noncalcareous qtzite. Minor pyrite + sphalerite parallel S1 and S2 in pressure solution stringers. Unit locally brecciated w/ clasts up to 1cm across in a white gouge matrix. At 364.5 orientation 25/090 wrt S2. Locally slightly porous along steep fractures. Dark grey, C.S2-foliated, hard, noncalcareous qtzite. S2 surfaces shiny black. Minor fine pyrite, sphalerite, metabasite along shearing surface. Also qtz veins have "cloudy" appearance. — approaching texture of coherent fault rock. At 373 shear surface 25/000 wrt S2. 373.5-374 is black mud gouge. TOI-369 mod. broken w/ good recovery // 369-EOI very broken to mod. broken w/ good recovery

DDH 89G-17
2 8

CURRAGH RESOURCES INC.
Lithologic Log

Date: Aug 11/89 Logged By: LCP

Code	From	To	Recov.	No.	Unit	Description
1	10 14	16 20	22 24	26 28	30 34	35
	131716 7	131913 0 119 8		1214	141D141	±5 Medium grey, hard, noncalcareous, PS2-foliated qtzite. S2 surfaces range from silvery through steely grey to locally dull black. Sphalerite w/ lesser pyrite as irregular bands generally parallel S2. Often microbuckshot texture w/ pyrite grains floating in matrix of fine, reddish sphalerite. Estimated grade 9-12% (Pb+Zn) Pyrite content 5-10% at most. S2 partings are commonly quite micaceous and phyllitic. Entire interval very broken, rubbly, poker chippy, although no gouge. Recovery not ideal — 377.5-380 only 2 feet core // 382-387 only 4 feet core // 387-391 only 2 feet core // 391-393 only 1 foot of core
	131913 0	131916 0 120 7		1215	141L112	4 [HDO "PHYLLITIC"] Moderately hard to hard, PS2-foliated, offwhite, noncalcareous, muscovite-qtz phyllite. S2 surfaces are silvery white from abundant muscovite. Fine-grained py + sphal. in thin, diffuse, qtz-rich compositional bands parallel S2. Unit becomes more siliceous overall as go down DDH. Pyrite content 10%. Estimated grade 4-6% (Pb+Zn) Pyrite also occurs in late crosscutting features. Core mod. broken to very broken & mod. poker chippy. Recovery assumed OK because measured down from footage tag 396!
	131916 0	141219 8 131 0		1216	141C151	(HD5) 90:10 Hard to very hard, CS2-foliated, pale to medium grey, noncalcareous, slightly pyritic qtzite. S2 surfaces are micaceous and are silvery grey. Diffuse thin bands (up to 1cm thick) of disseminated irregular pyrite grains. Pyrite content 5-10% locally thin bands of sphalerite also present. Average grade 2% (Pb+Zn) Some intervals will approach 5-6% (Pb+Zn). Core very broken, rubbly, poker chippy. Recovery OK

DDH 89G-17
2 8

CURRAGH RESOURCES INC.
Lithologic Log

Date: Aug 12/89 Logged By: NCP

From	To	Recov.	No.	Unit	Description
141219 8	141313 0 132 0		1217	51A1691	(4AO)(5D4$) 33:33:34 TOI consists of moderately soft to moderately hard, poorly CS2-foliated, very dark grey, noncalcareous phyllite. Contains qtz-pyrite and qtz-sphalerite veinlets which are subparallel S1 and folded by S2(D2) S2 surfaces are shiny dark grey to black and mark fingers moderately. S1 microlithons partly defined by qtz-$ veinlets and partly defined by "speckled" grey greasy siltstone bands. Grade < 2% (Pb+Zn) As go down DDH have transitions to hard, noncalcareous, dark grey, PS2-foliated ribbon banded qtzite. Pyrite content 10-15% Grade 0-1%. Distinguished from previous unit by being more siliceous w/ greater pyrite content. S2 surfaces sooty to shiny black & moderately mark fingers. Last unit in interval is moderately soft, pale tan, PS2-foliated, slightly dolomitic muscovite-qtz phyllite. S2 surfaces are silvery tans. Contains S2 and S1 parallel qtz veinlets. Marginal contacts are sharp. Core very broken & mod. gaker choppy w/ good recovery.
141313 0	141715 0 144 8		1218	141A101	±4 Very hard, noncalcareous, medium grey, CS2-foliated, ribbon-banded qtzite. S2 surfaces range from locally silvery grey to more commonly shiny to sooty black. Darker surfaces slightly to moderately mark fingers. Pyrite disseminated in off-white to pale grey qtz-sulphide veinlets parallel S1. Pyrite also locally forms diffuse margin compositional bands parallel S2. Locally pyrite also contains reddish brown sphalerite. General grade 1-2% (Pb+Zn) with some intervals up to 7% (Pb+Zn). Pyrite content varies widely between 5-20%. S1 compositional banding defined by alternating medium grey fine 5"-poor qtzite and pale grey to white qtz-5" ribbon banding. Interval locally looks transitional to 4C5 by being lighter coloured — no good place to put any breaks however, and sent definitely

DDH B.4.G-17 (2 8)

CURRAGH RESOURCES INC.
Lithologic Log

Date: Aug 13/89 Logged By: LCP

Code	From	To	Recov.	No.	Unit	Description
1	10 14	16 20	22 24	26 28	30 34	35
						has texture typical for 4A.
						TOI-440 Very broken w/ local rubbly intervals - recovery OK // 440-449 mod. broken w/ good recovery // 449-466 very broken w/ good recovery rubbly intervals // 466-471 mod. broken w/ good recovery // 471-EOI intact w/ good recovery
	4715 0	4719 4 146 1		29	4A01	(5A61)(5D4$) 80:20: TRACE
						TOI consists of moderately hard, noncalcareous, dark grey, PS2-foliated, phyllite. S2 surfaces dark steely grey to shiny black. Compositional banding parallel S2 based on variations in shades of grey and black and amount of quartz. Only very minor pyrite present. Contains 2 1-2cm bands of moderately soft, pale olive tan, PS2-foliated, slightly dolomitic phyllite. Marginal contacts sharp. Not as strongly altered as many 5D4 intervals - can still see some green.
						Majority of interval consists of hard, noncalcareous, CS2-foliated, pyritic, ribbon-banded qtzite. S2 surfaces are shiny dark grey and only slightly mark the fingers. Ribbon banding consist of grey qtz with pyrite ± fine reddish sphalerite. Banding is on a scale of 1cm or less. Intervening/interbanded lithology is dark grey, fine-grained, sulphide-poor qtzite. Pyrite content overall is 5-10%. Estimated grade 2-4% (Pb+Zn). Interval intact w/ excellent recovery.
	4719 4	4813 4 147 3		30	4A4	
						Similar to last Unit # 29 (475-479.4) only contains compositional bands parallel S2 of sphalerite + pyrite. Hard, CS2-foliated, dark grey, noncalcareous, ribbon-banded, pyritic qtzite. S2 surfaces are dark shiny grey. Lower portion of interval has incipient bxa texture w/ fine pyrite + sphalerite infilling fractures. Pyrite content 10-15%. Estimated grade 5-6% (Pb+Zn). Core mod. broken w/ good recovery

DDH B.G.-17

CURRAGH RESOURCES INC.

Lithologic Log

Date: Aug 13/89 Logged By: LCP

Code	From	To	Recov.	No.	Unit	Description
	14813 4	14913 0 150 3		1311	15B16	[360] GOUGE Mud gouge w/ short intervals of rock. Medium to medium dark grey, soft, PS2-foliated, noncalcareous phyllite. S2 surfaces are light steely grey. Gouge contains clasts of white vein quartz. AT TOI shear fracture surface 30/000 wrt S2. TOI - 486.5 recovery OK // 486.5 - 489.0 m by 1 foot core recovered // 489.0 - EOI recovery OK. Erbin interval mud gouge w/ short intervals very broken and rubbly.
	14913 0	15113 2 156 4		1312	13G01	Moderately soft to soft, poorly CS2-foliated, noncalcareous, medium grey phyllite. S2 surfaces are steely grey. Contains thin grey grass "siltstone" bands which define microlithons. Minor disseminated pyrite within the siltstones. Also thin streaky pyrite in phyllite parallel S1. Unit not extensively "altered" like typical immediate are footwall TOI - 497 core mod. poken chippy to very broken w/ good recovery // 497 - 499 core mod broken w/ good recovery // 499 - 502 core very broken & mod. poken chippy w/ good recovery // 502 - EOI core mod. broken w/ good recovery
	15132	15290 161 2		1313	13G01	(384') 90:10 GOUGE Mud gouge w/ intervals of rock. Medium grey, soft, CS2-foliated, noncalcareous phyllite. S2 surfaces are light steely grey. Contains scattered, cubedral pyrite porphyroblasts up to 1cm across. S1 microlithons defined by micas between micaceous S2 pressure solution stripes. Interval 524.5 - 526 consists of PS2-foliated, pale grey, tan-weathering, slightly dolomitic, homogeneous muscovite phyllite. S2 surfaces are silvery grey. Marginal

DDH 89G-17
2 8

CURRAGH RESOURCES INC.
Lithologic Log

Date: Aug 13/89 Logged By: LCP

Code	From	To	Recov.	No.	Unit	Description
1	10 14	16 20	22 24	26 28	30 34	35
						contacts are sharp parallel S1 - folded during D2 deformation. Unit is an altered 5D. No "fuchsite" visible.
						Unit very broken & rubbly w/ gouge. TOI - 518.5 recovery OK // 518.5-524.5 only 5 feet core // 524.5-529.0 only 3 feet core.
						At 517 extensive fracturing - incipient crenulation cluge 05° wrt core axis Otherwise cannot readily see orientation. At TOI break between gouge & rock parallel S2.
						EOH

DDH 89-G-17 (2 / 8)

CURRAGH RESOURCES INC.
Structural Log

Date: Aug 12/89 Logged By: TLC

Code	From	To	Feature	Sym	S_0 Dip Direct.	S_1 Dip Direct.	S_2 Dip Direct	Description
		129	CS2	S		240/31	46	S_2 defined by chloritic foliation S_1 " " comp. banding
		393	PS2	-	- -	- -	56	S_2 defined by chloritic foliation
		755	CS2	Z		230/25	54	S_2 defined by chloritic fltn S_1 by comp. banding.
		917	PS2	-		- -	52	S_2 defined by chloritic fltn.
		1415	CS2	-		160/06	62	" " S_1 by comp. banding
		153	PS2	-		- -	50	qtz veins cutting S_1 folds
		186	CS2	Z		172/13	67	Defined by comp. banding & micaceous fltn.
		179						fold hinge (F_2)
		197	CS2	M		150/00	77	Defined by comp banding & micaceous fltn.
		210						fold hinge (F_2)
		223	PS2	-		- -	52	Defined by chloritic fltn
		251	CS2			162/19	70	S_2 defined by chloritic fltn S_1 by comp. banding & Fold hinge parallel
		2525	CS2	S		150/00	60	Defined by chloritic fltn & comp. banding.
		272						Fold hinge (F_2)
		281	CS2			184/045	74	F_2 fold hinge S_1 defined by comp. banding S_2 by micaceous fltn. & pyrite bands.
		306	CS2			100/00	51	F_2 fold hinge S_1 defined by comp. banding S_2 by chloritic fltn.
		3105	PS2			- -	45	S_2 defined by chloritic fltn & pyrite bands.
		341	PS2			- -	40	S_2 defined by chloritic fltn & comp. bands
		331						fold hinge (F_2)
		347				080/00	42	S_1 defined by comp. banding S_2 by chloritic fltn.
		382	CS2	S		110/00	63	S_1 defined by comp. banding S_2 by micaceous fltn & sphalerite bands.
		4105	PS2			- -	77	S_2 defined by micaceous fltn. & pyrite bands
		423	PS2			- -	67	S_2 defined by chloritic fltn.
		448	CS2	S		150/279	61	S_1 defined by comp. banding S_2 by micaceous fltn & pyrite bands
		451	CS2			160/180	72	" "
		465						fold hinge.
		474	CS2	Z		150/180	65	S_1 defined by comp. banding S_2 by micaceous fltn & pyrite bands
								fold hinge
		498	CS2			150/125	65	S_2 defined by micaceous fltn. S_1 by comp. bands
		5055				338/010	58	both S_2 & S_3 defined by chloritic/micaceous fltn.
		512	CS2	Z		170/180	71	S_1 defined by comp banding S_2 by chloritic fltn.
		1393	CS3		311	010/310	56	faint crenulation / kink.
		1845	CS3		143	012/15	67	
		4150	CS2	S		140/010	76	

DDH 896-17 (2 8)

CURRAGH RESOURCES INC.
Structural Log

Page _____ of _____

Date: _____ Logged By: _____

Code	From	To	Feature	Sym	S_0 Dip	S_0 Direct.	S_1 Dip	S_1 Direct.	S_2 Dip	S_2 Direct	Description
1	10 14	16 20	22 24	26	28	32	34	38	40	44	
		4780	CS2	S			45	000	70		Carbonaceous folia = S2 compositional banding = S1
		5250	CS2						60		poorly developed crenulation cluge
											EOH

DDH 89G-17 CURRAGH RESOURCES INC. Page 1 of 2

Logged by LCP

ASSAY LOG (SAMPLER'S COPY) Date _____ Sampled by _____

CODE	FROM	TO	SAMPLE	INTR.	REC (m)	UNIT	DESCRIPTION
1	10 0 14	16 85 20	22 — 0 — 26	28 30	32 34	36 WASTE 40	42
	85.0 / 12718 8	85.3 / 12800	14876	20	0.3 / 10	15B1/14	E1
	12800	86.1 / 12845	14877	45	1.4 / 45	14A14	
	12845	88.0 / 12888	14878	43	1.3 / 42	14A14	
	12888	89.5 / 12936	14879	48	1.5 / 48	14A14	
	12936	90.8 / 12980	14880	44	1.3 / 44	14A14	
	12980	92.0 / 13020	14881	40	1.2 / 40	14A14	
	13020	93.4 / 13065	14882	45	1.4 / 45	14A14	
	13065	94.5 / 13102	14883	37	1.1 / 37	15D1$	
	13102	96.3 / 13161	14884	59	1.2 / 59	14C@1	/5C8$
	13161	97.9 / 13211	14885	50	1.5 / 50	14C@1	
	97.9	110.9	— 0 —	—	—	WASTE	
	110.9 / 13640	112.2 / 13680	14886	40	1.2 / 38	15D1/14	A0
	13680	113.5 / 13725	14887	45	1.1 / 35	15C14	
	13725	114.8 / 13767	14888	42	1.3 / 42	14A1C1/	5C4
	13767	116.1 / 13809	14889	42	1.3 / 42	14D14	
	13809	117.6 / 13858	14890	4[illegible]	1.3 / 43	14D14	
	13858	119.8 / 13930	14891	72	1.3 / 42	14D14	
	13930	120.7 / 13960	14892	30	0.9 / 29	14L1124	
	13960	121.9 / 14000	14893	40	0.4 / 14	14C15	
	14000	123.2 / 14042	14894	42	1.0 / 32	14C15	
	14042	125.0 / 14100	14895	58	1.5 / 50	14C15	
	14100	126.6 / 14154	14896	54	1.4 / 45	14C15	
	14154	128.2 / 14205	14897	51	1.3 / 44	14C15	
	14205	129.5 / 14250	14898	45	1.4 / 45	14C15	
	14250	131.0 / 14298	14899	48	1.5 / 48	14C15	
	14298	132.0 / 14330	14900	32	1.0 / 32	15A1/14	A/5D4
	14330	133.5 / 14380	14901	50	1.5 / 50	14A01	
	14380	135.1 / 14433	14902	53	1.6 / 53	14A01	
	14433	136.7 / 14484	14903	51	1.6 / 51	14A01	
	14484	128.8 / 14527	14904	43	1.3 / 43	14A01	
	14527	139.2 / 14568	14905	41	1.2 / 41	14A01	
	14568	140.7 / 14615	14906	47	1.4 / 47	14A01	
	14615	141.9 / 14657	14907	42	1.3 / 42	14A01	
	14657	143.3 / 14704	14908	47	1.4 / 47	14A01	
	14704	144.8 / 14750	14909	46	1.4 / 46	14A01	
	14750	146.1 / 14794	14910	44	1.3 / 42	14A1/15	A/5D4

DDH 89G-17 (2–8) CURRAGH RESOURCES INC.

Page 2 of 2

Logged by LCP

ASSAY LOG (SAMPLER'S COPY)

Date _____ Sampled by _____

CODE	FROM (10–14)	TO (16–20)	SAMPLE (22–26)	INTR. (28–30)	REC (m) (32–34)	UNIT (36–40)	DESCRIPTION (42)
	4794	4834 (1473)	14911	40	1.2 40	4A4	
	1473	1612	—	—	—	WASTE	

PROJECT _____ DRILLHOLE NO. [illegible] COORDINATES: N _____ DATE [illegible]

LOCATION _____ HOLE SIZE _____ E _____ PAGE 5 of 5

LOGGER [illegible] INCLINATION _____ ELEVATION _____

PITEAU & ASSOCIATES
GEOTECHNICAL CONSULTANTS
VANCOUVER CALGARY

GEOTECHNICAL CORE LOG

DEPTH (TO)	LENGTH OF RUN	CORE RECOVERY LENGTH	CORE RECOVERY %	RQD LENGTH	RQD %	HARDNESS	DEGREE OF BREAKAGE CATEGORY	DEGREE OF BREAKAGE NO.	DEGREE OF WEATHERING	ROCK TYPE	BEDDING DIP DEPTH	BEDDING DIP ANGLE	BEDDING JOINTS NO.	BEDDING JOINTS FREQ.	CROSS JOINTS NO.	CROSS JOINTS FREQ.	COMMENTS
486.5	5	[illegible]		0.8			5		[illegible]						0		
489	[illegible]	[illegible]		0			6		[illegible]						0		
493	4	3.5		0			5								[illegible]		
49[illegible]	[illegible]	[illegible]		0			[illegible]		F						2		
500	[illegible]	4.5		0.7			6		F						3		
505	5	4.7		0.35			6		F						3		
510	5	5		0			6		F						1		
515	5	5		0			6		F						1		
5[illegible]	[illegible]	2.2		0			4		[illegible]						0		
524.5	6	4		0			6		F						1		
52[illegible]	[illegible]	3.2		0.55			6		F						1		
						E OH											

Fig. 1. Typical rock mechanics core log.

PROJECT _____ DRILLHOLE NO. 89-G-17 COORDINATES: N _____ DATE Aug 14 19 89

LOCATION _____ HOLE SIZE _____ E _____ PAGE 1 of 5

LOGGER TLK INCLINATION _____ ELEVATION _____

PITEAU & ASSOCIATES
GEOTECHNICAL CONSULTANTS
VANCOUVER CALGARY

GEOTECHNICAL CORE LOG

DEPTH (TO)	LENGTH OF RUN	CORE RECOVERY		RQD		HARDNESS	DEGREE OF BREAKAGE		DEGREE OF WEATHERING	ROCK TYPE	BEDDING DIP		BEDDING JOINTS		CROSS JOINTS		COMMENTS
		LENGTH	%	LENGTH	%		CATEGORY	NO.			DEPTH	ANGLE	NO.	FREQ.	NO.	FREQ.	
16.6	6.6	1.8		0			5-		D						0		
22	5.4	3.5		0.75			7		E						1		
25	3	2.6		0			7		E						0		
28	3	3		0			7		E						3		
30	2	1.4		0			6		E						0		
39	4	4		0.35			7		E						1		
37.5	3.5	2.1		0			6		F						0		
42	4.5	4.5		0.45			7		F						1		
45	3	2		0			6		E						1		
49	4	5.3		0			6		E						1		
52	3	2.1		0			6		E						0		
56	4	2.3		0			6		E						1		
61.5	5.5	2.5		0			6		F						0		
65	3.5	1.7		0			6		E						1		
70	5	0.2		0			6		E						0		
70.6	0.6	0.1		0			1		E						0		
74	3.4	1.7		0			2		E						0		
77	3	2.1		0			6		E						6		
82	5	4.7		0.35			6		E						2		
83.5	1.5	1.1		0			6		E						0		
89	5.5	5.1		0.35			6		D						1		
91.5	2.5	1.8		0			5		F						0		
97	5.5	3.9		0			6		E						1		
102	5	1.5		0			3		F						0		
107.5	5.5	2.9		0			5		E						0		
109.5	2	1.8		0			6		E						0		
114	5	3.1		0			6		E						0		
116	2	1.6		0			2		F						0		

Fig. 1. Typical rock mechanics core log.

PROJECT _____ DRILLHOLE NO. 89-G-17 COORDINATES: N _____ DATE aug 14/89

LOCATION _____ HOLE SIZE _____ E _____ PAGE 2 of 5

LOGGED TLK INCLINATION _____ ELEVATION _____

PITEAU & ASSOCIATES
GEOTECHNICAL CONSULTANTS
VANCOUVER CALGARY

GEOTECHNICAL CORE LOG

DEPTH (TO)	LENGTH OF RUN	CORE RECOVERY		RQD		HARDNESS	DEGREE OF BACKBREAK		DEGREE OF WEATHERING	ROCK TYPE	BEDDING DEP		BEDDING JOINTS		CROSS JOINTS		COMMENTS
		LENGTH	%	LENGTH	%		CATEGORY	NO.			DEPTH	ANGLE	NO.	FREQ.	NO.	FREQ.	
122	5.5	2.5		0			3		F						0		
124	2	0.5		0			6		F						0		
128.5	4.5	3.3		0			2		F						0		
132	3.5	1.15		0			2		F						0		
137	5	3.7		0			7		E						2		
142	5	4.2		0.35			7		E						1		
147	5	5		1.1			10		E						3		
152	5	3.8		0			7		E						3		
157	5	4.0		1.05			7		E						0		
162	5	1.5		0			6		E						1		
167	5	0.7		0			6		F						0		
172	5	3.7		0			7		F						1		
177	5	5		1.25			7		E						1		
182	5	4.9		0.4			7		E						1		
186	4	5.9		0			7		E						1		
191	5	4.9		2.45			10		E						1		
194.6	3.6	3.1		0.5			7		E						1		
199.6	5	5		0.4			6		D						1		
201	1.4	1.4		0			6		D						1		
206.6	5.6	5.4		0.45			6		E						2		
212	5.4	5		1.8			8		D						1		
217	5	5		0.4			7		E						0		
222	5	4.2		0.75			7		E						2		
227	5	5		0.4			7		E						2		
232	5	2.7		0			6		E						2		
237	5	5		0.4			7		E						0		
242	5	4.9		0.75			7		F						1		

Fig. 1. Typical rock mechanics core log.

PROJECT _____ DRILLHOLE NO. 89-6-17 COORDINATES: N _____ DATE Aug 11/89

LOCATION _____ HOLE SIZE _____ E _____ PAGE 3 of _____

LOGGED TLK. INCLINATION _____ ELEVATION _____

PITEAU & ASSOCIATES
GEOTECHNICAL CONSULTANTS
VANCOUVER CALGARY

GEOTECHNICAL CORE LOG

DEPTH (TO)	LENGTH OF RUN	CORE RECOVERY		RQD		HARDNESS	DEGREE OF BREAKAGE		DEGREE OF WEATHERING	ROCK TYPE	BEDDING DEP		BEDDING JOINTS		CROSS JOINTS		COMMENTS
		LENGTH	%	LENGTH	%		CRITERIA	NO.			DEPTH	ANGLE	NO.	FREQ.	NO.	FREQ.	
247	5	5		0.7			7		E						0		
249.6	2.6	1.2		0			7		E						1		
254.6	5	5		1.15			7		D						1		
260	5.4	5.1		0.4			6		E						0		
266	6	4.5		0.8			7		E						0		
270.5	4.5	4.5		0			7		E						0		
276	5.5	5		1.95			8		E						1		
281	5	4.9		0.4			7		E						1		
286	5	4.8		1.55			10		F						2		
291	5	5		2.10			7		E						0		
296	5	5		5			10		E						0		
301	5	5		1.4			10		F						2		
306	5	5		1.1			10		F						2		
311	5	5		4.54			10		E						0		
316	5	5		3.55			11		E						1		
321.5	5.5	5.5		4.75			13		E						0		
325	3.5	2.9		0.5			7		E						0		
330.6	5.5	5.5		1.6			7		F						3		
335	5	5		2.55			10		F						1		
340.5	5	5		1.35			10		F						0		
346	5.5	5.3		3.1			9		E						0		
351	5	4.8		2.75			7		E						0		
356	5	4.9		0.9			7		E						1		
361	5	5		2.1			7		E						0		
362.5	1.5	1.5		0			6		E						2		
368	5.5	5.2		1.8			7		E						1		

Fig. 1. Typical rock mechanics core log.

PROJECT _____ DRILLHOLE NO. 89-G-17 COORDINATES: N _____ DATE Aug 14/89

LOCATION _____ HOLE SIZE _____ E _____ PAGE 4 of _

LOGGED TLIC DECLINATION _____ ELEVATION _____

PITEAU & ASSOCIATES
GEOTECHNICAL CONSULTANTS
VANCOUVER CALGARY

GEOTECHNICAL CORE LOG

DEPTH (TO)	LENGTH OF RUN	CORE RECOVERY		RQD		HARDNESS	DEGREE OF BREAKAGE		DEGREE OF WEATHERING	ROCK TYPE	BEDDING DEP		BEDDING JOINTS		CROSS JOINTS		COMMENTS
		LENGTH	%	LENGTH	%		CATEGORY	NO.			DEPTH	ANGLE	NO.	FREQ.	NO.	FREQ.	
375.5	7.5	5.6		0.35			6		E						2		
377.5		1.7		0			6		E						0		
380	2.5	1.6		0			5		E						1		
382	2	1.7		0			6		E						1		
387	5	4		0.35			6		E						1		
391	4	3.7		0			6		E						0		
396	5	3.2		0			6		E						0		
399	3	2.7		0			6		E						0		
405	6	3.2		0			6		E						0		
409	4	2.5		0			6		E						2		
411	2	1.3		0			6		E						1		
413.5	2.5	1.8		0			6		E						2		
417.5	4	1.6		0			6		E						2		
422	4.5	2.8		0			6		E						3		
424	2	1.5		0			6		E						4		
432.5	8.5	1.6		0			6		E						2		
436	3.5	2.4		0.35			6		E						2		
440	4	3		0.4			6		E						2		
445.5	5.5	4.1		0.35			7		E						2		
450.5	5	5		0.35			6		E						3		
455.5	5	5		0.4			6		E						4		
461	5.5	5.3		0			6		E						5		
466	5	5		0			6		E						5		
471	5	5		0.35			6		E						4		
476.5	5.5	5.2		0.35			6		E						1		
481.5	5	5		1.75			6		E						1		

Fig. 1. Typical rock mechanics core log.

89-G-18

CURRAGH RESOURCES INC.

Page 1 of ____

DIAMOND DRILL CORE LOG

Date: _____

Hole Number: 89G-18

Reference Fabric Orientation Diagram:

Project: 1989 GRUM FILL-IN

Location: _____

Claim: _____

UTM ~~Terr.~~ Plane Co-ords.: 6905104.064 N 6,453.05 N

592323.133 E 2,830.99 E

Grid Co-ords: 76W / 7N

Elevation: 1295.658

All symmetry determinations looking

Total Depth: 441 feet

_____ with _____ dipping

Inclination: -70° to NE

_____ with dip azimuth _____.

Purpose: _____

Reason hole Terminated: _____

Logged by: _____

Date(s) Logged: _____

Drilling Contractor: ARCTIC

Hole Cemented: _____ Steel down Hole: _____

Assay Lab: _____

CORE Size	From	To	Collar Cased and Capped: ____
NW	0	45 feet	
NQ	45	441 feet	

Certificate No's: _____

Started: July 20/89 Completed: July 22/89

CURRAGH RESOURCES INC.

Diamond Drill Core Log

DDH 89G-118 (2 8)

Date: _____ Logged By: _____

Code	Drillhole	Elevation	Northing	Easting	Units (feet/metres)	R.F.E.	
1	2 8	10 16	17 24	25 32	34 39	41 42	
T							

FEET

Code	Drillhole	Depth		Zenith Angle		True Azimuth		Comments
1	2 8	10	14	22	26	28	32	34 56
R	89G-118	1090	0	-71.0	0	014.2	0	AT COLLAR
R		1218	0	-71.0	0	015.9	0	SPERRY SUN
R		1278	0	-71.2	0	017.6	0	SPERRY SUN
R		1428	0	-69.0	0	018.0	0	SPERRY SUN
R				.		.		
R				.		.		
R				.		.	

DDH 89G-18
2 8
FEET

CURRAGH RESOURCES INC.
Lithologic Log

Date: Aug 25/89 Logged By: LCP

Code	From	To	Recov.	No.	Unit	Description
1	10 14	16 20	22 24	26 28	30 34	35
	10 0	12 0 / 6 7		1	1#	TRICONED — NO RECOVERY
	12 0	14 5 0 / 13 7		2	1#	Overburden — Till Light grey mud matrix containing boulders of 5B phyllite, 10A0 granite, 10E dyke. Also contains numerous small 5B phyllite chips. Poor recovery — probably because unit is washing out. 22-27 no core // 27-30 2.0 feet core // 30-32 no core // 32-45 casing & tricomed w/ no or minimal recovery.
	14 5 0	14 19 5 / 15 1		3	5D14$1	(5B0$) 90:10 "WEATHERED" Major lithology is soft, PS2-foliated, pale tan, moderately dolomitic, muscovitic phyllite. S2 surfaces are silvery beige when fresh. Typically S2 surfaces and fractures have medium orange-brown weathering stain. Near TOI have numerous pieces/fragments of soft, medium grey, calcareous and dolomitic phyllite. S2 surfaces are shiny grey. Possibly "float" and not in place. Corresponds to pelite of Vangorda fm. Core very broken and rubbly. Only 2.2 feet recovered. Most likely related to weathering of bedrock.
	14 19 5	18 10 4 / 24 5		14	15B1$10	Soft, pale grey, CS2-foliated, dolomitic and calcareous phyllite. S2 surfaces are silvery cream to silvery grey. Thinly banded w/ banding defined by thin pale grey qtz-carbonate siltstone bands. Typically these bands define S1 microlithons within S2 pressure solution stripes. More dolomitic siltstones weather to a very pale tan. TOI-69.0 very broken & rubbly w/ incipient gouge. 49.5-57.5 only 0.7 feet core w/ note of mislatch, 57.5-62 only 3.2 feet core, 62-67.5 only 1.5 feet core — possibly top of hole problems.

DDH B9G-18 (2 8)

CURRAGH RESOURCES INC.
Lithologic Log

Date: Aug 25/89 Logged By: LCP

Code	From	To	Recov.	No.	Unit	Description
1	10 14	16 20	22 24	26 28	30 34	35
		1810 4		14		69.0 - 72.0 mod. to very broken w/ good recovery // 72.0 - EOI very broken & mod. poker chippy w/ some incipient gouges - 72 - 77.5 only 2.5 feet core, 77.5 - 81 has only 2.5 feet of core.
	1810 4	1910 4 (27 6)		15	15B1$1	±0 (5D4$) 90:10
						Pale grey, CS2-foliated, dolomitic, soft, thinly banded phyllite. S2 surfaces are silvery grey. Contains thin siltstone qtz-carbonate bands. Typically the bands are dolomitic and weather pale tan. Locally they are calcareous. Siltstones delineate S1 microlithons w/few S2 pressure soln stripes.
						Contains thin interbands (up to 10 cm thick) of pale tan, soft, dolomitic, PS2-foliated, muscovite-qtz-dolomite phyllite. S2 surfaces are silvery beige. Marginal contacts are sharp, parallel S1, folded during D2 deformation.
						Core mod. to very broken, mod. poker chippy. Minor incipient gouge present locally. Recovery OK. - about 90-95%.
	1910 4	1113 5 (34 6)		16	15B1$1	±0
						Similar to previous unit # 5 (80.4 - 90.4) only lacks the 5D4$ altered metabasite interbands. Pale grey, CS2-foliated, soft, dolomitic, thinly banded phyllite. S2 surfaces are silvery creams to silvery grey. locally contains thin (<1cm), medium xlline, grey marble bands.
						Core mod. to very broken, mod. poker chippy. 91.5 - 97.0 has 5.5 feet core, 97.0 - 100.5 has 2.5 feet core, 100.5 - 106.0 has 5.3 feet core, 106.0 - 111.5 has 1.5 feet core. No indication of reasons for less than perfect recovery.

DDH 89G-18
2 8

CURRAGH RESOURCES INC.
Lithologic Log

Date: Aug 25/89 Logged By: LCP

Code	From	To	Recov.	No.	Unit	Description
1	10 14	16 20	22 24	26 28	30 34	35
	111135	111316 5 41 6		17	15B1017	
						Pale grey, CS2-foliated, soft, calcareous, thinly banded phyllite. S2 surfaces are silvery cream to silvery grey. Wet cut surface has a pale medium green tinge. Banding defined by grey to white qtz-calcite siltstone interlayers. Siltstones typically form S1 microlithons within S2 pressure soln. stripes. Distinguished from previous unit by absence of dolomite and appearance of greenish hue to wet core.
						TOI - 127.5 Very broken & rubbly w/ minor incipient gouge. Mod. poker chippy 113.5 - 116.0 only 1.5 feet core, 116 - 118 2 feet core, 118 - 121 1.2 feet core - no reason for loss, 121 - 123.5 1.3 feet core, 123.5 - 127.5 only 2.0 feet core.
						127.5 - EOI Core mod. broken w/ good recovery
	111316 5	111510 4 45 8		18	15B1017	(5DO) 95:05
						Soft, pale grey, PS2-foliated, calcareous phyllite. Cut surface has medium green tinge when wet. S2 surfaces are light silvery grey. Minor, poorly defined, light grey qtz-calcite siltstone bands. Commonly these are parallel S2 and may contain poorly defined, not readily visible, S1 microlithons.
						Contains interbands up to 15cm thick of soft, PS2-foliated, calcareous, medium green chloritic phyllite. S2 surfaces are shiny, silvery green. Marginal contacts are sharp, parallel S2.
						Core mod. broken w/ good recovery
	111510 4	111810 0 54 9		19	15B1017	
						Soft, pale grey, PS2-foliated and CS2-foliated, calcareous, thinly banded phyllite. S2 surfaces are pale silvery grey. Banding defined by pale grey qtz-calcite siltstone interlayers up to 2cm thick. Commonly these are parallel S2. Locally they define S1 microlithons. Different from last unit by S1 microlithons and absence of the 5D interbands.

DDH 89G-18

CURRAGH RESOURCES INC.
Lithologic Log

Page 6 of

Date: Aug 25/89 Logged By: LCP

Code	From	To	Recov.	No.	Unit	Description
1	10 14	16 20	22 24	26 28	30 34	35
						lower contact is gradational into next unit.
						TOI-167 core mod. brken w/ good recovery // 167-169 core very brken &
						rubbly w/ good recovery // 169-EOI core mod. brken w/ good recovery.
	1810 0	1911 2		110	5D01	(5B70) 70:30
		58 3				Two interbanded lithologies which are often difficult to distinguish. Major unit is soft,
						PS2 foliated, olive green, calcareous chloritic phyllite. S2 surfaces are pale silvery green.
						Calcite forms diffuse thin white compositional bands and white calcite-qtz veinlets. Both
						occurrences are parallel S1. Where distinguishable, marginal contacts w/ enclosing pelite
						are sharp, parallel S1.
						Lesser interbands of pale green, poorly CS2-foliated, calcareous, soft, chloritic phyllite. S2
						surfaces are also pale silvery green. Distinguished from 5D by slight bluish tinge to green
						colour, and by poorly preserved CS2-foliated fabric w/ thin white S1 microlithon fold
						hooks/hinges between S2 pressure soln stripes.
						Upper contact of unit gradational w/ decrease in grey on cut surface and S2 surfaces.
						Lower contact also gradational w/ increase in grey on cut surface and S2 surfaces.
						Core mod. brken w/ good recovery
	1911 2	2110 5		111	5B017	
		64 2				Soft, pale grey, PS2-foliated, calcareous phyllite. S2 surfaces are light silvery grey.
						Cut surface has faint medium green tinge when wet. Dominantly PS2 foliated. Locally
						contains thin grey qtz-calcite siltstone bands which poorly define a CS2-foliation fabric.
						TOI-200 core mod. brken & mod. poker chippy w/ good recovery // 200-EOI
						core mod. brken w/ good recovery. No faults — no breaks

DDH 89G-18 (2 of 8)

CURRAGH RESOURCES INC.
Lithologic Log

Date: Aug 25/89 Logged By: LCP

Code	From	To	Recov.	No.	Unit	Description
1	10 14	16 20	22 24	26 28	30 34	35
	121110 5	121213 5 68 1		1112	15B1017	±3 (5DO)(5B70 ±3) 50:30:20 Major unit similar to last Unit = 11 (191.2-210.5). Pale grey, PS2-foliated, calcareous, soft phyllite. Cut surface has medium green tinge where wet. S2 surfaces are pale silvery grey. locally contains scattered pyrite and pyrrhotite porphyroblasts. In one spot has ovoid black "cherty" concretions. Contains thin interbands of 5DO. Contains thin bands of medium xlline, medium grey calcite marble up to 5cm thick. Gradational contact to 5B70 with decrease in grey. Pale green, soft, CS2-foliated, chloritic phyllite. S2 surfaces are silvery pale green. Also contains thin bands of medium xlline, medium grey, calcite marble. This unit is marginal to large 5DO interband. 5D is calcareous, pale olive, soft, PS2-foliated, chloritic phyllite. S2 surfaces are green to silvery olive. Homogeneous texture w/ some ptk-calcite white veinlets. Thickness ranges upward from minimum of 10cm to >50cm. Where distinguishable - marginal contacts are sharp. Core slightly broken w/ good recovery
	121213 5	121314 5 71 5		1113	15B1$1	±2 (5DO$) 95:05 Soft, dolomitic, CS2-foliated, thinly banded, medium grey to dark grey phyllite. Becomes gradually darker as go down DDH. Contains scattered pyrite and pyrrhotite, irregular porphyroblasts. Also noted one oval black "cherty" concretions in one location. S2 surfaces are silvery grey to dark steely grey. Dolomite w/ qtz in thin qtzose siltstone bands defining S1 microlithons. Contains minor thin interbands of olive green, soft, PS2-foliated to CS2-foliated chloritic phyllite. Bands are up to 10cm thick. Calcite + dolomite forms diffuse stripes poorly defining S1 microlithons. S2 surfaces are silvery olive

DDH 89G-18
2 8

CURRAGH RESOURCES INC.
Lithologic Log

Page 6 of

Date: Aug 25/89 Logged By: LCP

Code	From	To	Recov.	No.	Unit	Description
1	10 14	16 20	22 24	26 28	30 34	35
						TOI - 232 mod. broken & mod. poker chipping w/ good recovery // 232 - EOI very broken & rubbly in dolomite - qtz vein. Incipient gouge near EOI. Only 1.7 feet core recovered. Vein has stylolitic brx texture.
	121314 5	121316 3 720		1114	141D1314	(5C4 $) 90:10 TOI consists of soft, PS2 - foliated, bright green and tan-grey striped, dolomitic phyllite. Blue-green streaks consist of "fuchsite" Unit is a highly altered and strongly foliated metabasite. Metabasite only 0.2 feet thick. Going down DDH next have 0.4 feet of fine pyritic sulphides. Ductile flow texture around clasts of qtz and metabasite. Contains abundant sphalerite from reddish brown colours. Estimated grade 15% (Pb+Zn). Pyrite content 70% Has been lumped w/ 4D in rock name. Gradational contact down DDH to very hard, white, noncalcareous, very pyritic qtzite. S2 surfaces are qtz-white w/ numerous pyrite streaks. Pyrite "floods" qtzite as fracture infilling to give microbrx texture of qtz lenses in S2-rich matrix. Pyrite content 35-40% Estimated grade 10-12% (Pb+Zn). Lower contact gradational w/ decrease in pyrite content. Core intact w/ good recovery.
	121316 5	121417 3 754		1115	141D101	±4 ±5 (5A69) TRACE Very hard, noncalcareous, slightly pyritic qtzite. Ranges from pale grey to medium grey S2 surfaces contain only traces of muscovite. Range from qtzite grey to carbonaceous silvery dark grey. Dark grey 4D develops 4A ribbon-banded texture w/ qtz - sphalerite bands in a more finely xlline medium dark grey "clotty" qtzite. Unit heterogeneous in that grey carbon fades in and out. Pyrite occurs in minor amts as irregular fracture fillings. Pyrite content generally less than 5%. Abundant reddish sphalerite in thin laminae parallel S1 and S2. Estimated grade 15% (Pb+Zn) overall although some areas don't have much sphalerite.

DDH 89G-18
2 8

CURRAGH RESOURCES INC.
Lithologic Log

Date: Aug 25/89 Logged By: LSP

Code	From	To	Recov.	No.	Unit	Description
1	10 14	16 20	22 24	26 28	30 34	35
		121417 3		115		Interval 246.1-246.5 consists of black, soft, PS2-foliated, noncalcareous phyllite. Contains gtz-pyrite ± sphalerite compositional bands subparallel S2. These bands range up to 5cm thick. Probably represent veins introduced on top of earlier fabric.
						Core slightly broken to intact w/ excellent recovery.
	121417 3	121619 0		116	141D14	±0 ±5 MINOR
		82 0				Dominantly a very hard, pale grey to off-white, CS2-foliated, noncalcareous gtzite. S2 surfaces are gtzite grey w/ minor patchy silver from fine muscovite. Sphalerite occurs as thin laminae and bands parallel S1 and S2. S2 bands are pressure soln stipes and are slightly thicker than S1 laminae. Pyrite generally forms thicker diffuse bands. Pyrite medium xtline and commonly associated w/ sphalerite. Bands are up to 5cm thick. They tend to be subparallel to both S1 and S2. Margins of bands diffuse as pyrite infills fractures going into the gtzite. Bottom 2 feet of interval becomes more carbonaceous as go down DDH. S2 surfaces are locally silvery grey to steely grey.
						Pyrite content ranges 5-20%. Estimated grade overall 12% (Pb+Zn). Grade will also range 6-15% (Pb+Zn). Overall a gtzite unit which is high grade but is characterized by some small scale heterogeneity.
						TOI-267 intact w/ excellent recovery // 267-268 mod. broken w/ good recovery // 268-EOI intact w/ good recovery.
	121619 0	121713 0		117	151C1714	$ "ZEBRA ROCK"
		83 2				Soft, dolomitic, PS2-foliated, grey to tan dolomitic muscovitic phyllite w/ thin medium green chlorite streaks. Also contains irregular streaks of bright blue-green "fuchsite". S2 surfaces are either silvery beige (muscovite) or shiny green (chlorite). Marginal contacts are sharp parallel S2. Interval contains gtz-dolomite-sphalerite pegmatite

DDH BGG-18

CURRAGH RESOURCES INC.

Lithologic Log

Date: Aug 25/89 Logged By: LCP

Code	From	To	Recov.	No.	Unit	Description
						veins material.
						Core read. to very broken. Incipiently gouged through much of interval — appears to be mainly lithology-related. Recovery OK.
	121713 0	121716 2		118	141D1514	± 3 ±7 MINOR ±9 MINOR
		84 2				Hard, noncalcareous, pale medium grey, pyritic gtzite. S2 surfaces are either gtzite grey or silvery grey. Uppermost 0.5 feet against metabasite contains abundant medium xlline pyrite. Irregular fine pyrite w/ lesser pyrrhotite and minor chalcopyrite infills fractures. Pyrite in fractures porous w/ carbonate (?) weathering out. Can see "ghost" relict ribbons banding texture typical of 4A ± with sphalerite as dominant sulphide. Overall unit poorly CS2-foliated to PS2-foliated. Pyrite content 15% Estimated grade 12% (Pb+Zn). Sphalerite >> pyrite. Core intact w/ good recovery. Near TOI some pieces were redrilled.
	121716 2	121814 7		119	141D141	±7 MINOR ±9 MINOR
		86 8				Pale grey to creamy white, CS2-foliated, very hard, noncalcareous, pyritic gtzite. S2 surfaces are patchily silvery white from minor fine muscovite. Sulphide-rich intervals form thin compositional bands parallel S1 and S2. Within bands sulphides are anastomosing interstitial network enclosing silicate "eyes". Bands range from less than 1mm to 2cm in thickness. Sphalerite >> pyrite. Locally fine sphalerite chalcopyrite and minor pyrrhotite as part of S= assemblage. Pyrite 5-10% Estimated grade 15% (Pb+Zn). Total sulphides 20-30% Locally pyrite as microbuckshot texture w/ fine pyrite in sphalerite-rich zones.
						Core intact w/ good recovery. At 2780 have some redrilled core.

C.R.I. 1987 F-7A

DDH 29G-18

CURRAGH RESOURCES INC.

Lithologic Log

Date: Aug 27/87 Logged By: LCP

Code	From	To	Recov.	No.	Unit	Description
1	10 14	16 20	22 24	26 28	30 34	35
	121814 7	121818 7		1210	41D1541	(4D40) 80:20 [4A4]
		88 0				Gradational change as go down DDH from last interval to hard, medium dark grey, CS2-foliated, noncalcareous, pyritic, ribbon banded gtzite. S2 surfaces are dark steely grey and slightly mark fingers. Ribbon-banded texture delineated by pale grey to off white gtz-sphalerite & pyrite bands mainly parallel S1. Interbands between ribbons consist of fine grey "cherty" gtzite. Interval also contains an CS3 cluge. Sphalerite forms pressure soln. stripes along S1, S2, S3. Last 0.8 feet against next unit is bleached creamy white (4D40). S2 surfaces are silvery white fuzzy fine muscovite. Sphalerite > pyrite. Pyrite content 5-10%. Estimated grade 12% (Pb+Zn). Core intact w/ good recovery. Lower contact sharp parallel S2.
	121818 7	121912 0		1211	51C171$1	
		89 0				Soft to moderately hard, PS2-foliated, medium green chloritic phyllite. Strongly dolomitic w/ spots and stripes of tan-weathering, pale grey dolomite. S2 surfaces are medium chlorite green. Locally has sharp fractures parallel core axis w/ some displacement. Upper and lower contacts are sharp parallel S2. Contains 5 cm thick, S2 foliaform pegmatitic white qtz veins. Core mod. broken w/ good recovery
	121912 0	131013 0		1212	41D141	I7 MINOR (10009) 90:10
		92 4				Hard, PS2-foliated, noncalcareous, pyritic gtzite. S2 surfaces silvery from fine patchy muscovite. Strike off-white w/ dark brown sulphide bands generally parallel S2. Within bands sulphides form interstitial interlocking network w/ silicate (mainly qtz) eyes. Sulphides also remobilized into late fractures. Total S = 30% w/ pyrite > sphalerite. Estimated grade about 12% (Pb+Zn). Minor pale tan carbonate rhombs which does not react even w/ 20% HCl. Interval 301.2 - 302.2 consists of white pegmatitic qtz

DDH 89G-18

CURRAGH RESOURCES INC.
Lithologic Log

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Date: Aug 27/89 Logged By: LCP

Code	From	To	Recov.	No.	Unit	Description
1	10 14	16 20	22 24	26 28	30 34	35
						vein material w/ minor interstitial dark red brown sphalerite. Core slightly brken to intact w/ excellent recovery. Minor interstitial pyrrhotite detected by magnet but not readily visible
	3013 0	3016 8 93 5		23	4E4$	POROUS (5C4$)(4A34) 75:25: TRACE Moderately hard, fine grained, reddish brown, dolomitic pyritic sulphides. Pale dolomite disseminated in matrix as well as larger "clasts" in ductile S² matrix. Compositional banding parallel S2. Unit locally very porous w/ dolomite weathering recessively. Estimated grade 6-10% (Pb+Zn) Pyrite about 75-80% Contains interbands of soft, PS2-foliated, tan and bright green, dolomitic, highly altered metabasite. Dominant micaceous mineral is bright green "fuchsite". Locally contains some pyritic sulphide "interbands. Lowermost 0.1 feet is pyritic sulphides w/ thin discontinuous carbonaceous streaks and grey qtz eyes. Looks like 4A flooded by pyritic sulphides. Grade will be 6-7% (Pb+Zn) Core rubbly and mod. brken. Uppermost 0.2 feet contains many redrilled pebbles of metabasite and 4E. For entire interval only 1.6 feet core. Suggest significant core loss @ TOI among redrilled pebbles.
	3016 8	3116 7 96 5		24	5A$	Moderately soft to moderately hard, CS2-foliated, slightly dolomitic, black phyllite. S2 surfaces are shiny dark grey and moderately mark fingers. Contains thin qtzose siltstone bands up to 2cm thick which are typically slightly dolomitic. Siltstones define S1 microlithons. Scattered subhedral pyrite porphyroblasts. Siltstone bands are locally very porous. Core very brken, very rubbly, very poker chippy. Top 0.1 feet is S2 parallel gouge. 307-312 3.7 feet core / 312-315.5 2.8 feet core.

DDH 89G-18
2 8

CURRAGH RESOURCES INC.
Lithologic Log

Date: Aug 27/89 Logged By: LCP

Code	From	To	Recov.	No.	Unit	Description
1	10 14	16 20	22 24	26 28	30 34	35
	3116 7	3129 7 100 5		25	3G01	± $ MINOR [5B 6 2 MINOR ± $ MINOR] Moderately soft, PS2-foliated, medium grey, noncalcareous phyllite. S2 surfaces are light steely grey. Locally compositional banding defined by thin siltstone bands which are slightly paler grey. Siltstones are also locally slightly dolomitic. Overall unit more homogeneous phyllite. At 320 have thin 5A band which contains ovoid black "cherty" nodule. Minor pyrite. Unit locally slightly porous. Core slightly broken w/ good recovery. No indications of extensive footwall alteration.
	3129 7	3333 2 101 6		26	5A$9	Moderately soft, PS2-foliated, black phyllite. S2 surfaces are dark steely grey. Contains thin qtz-pyrite ± minor sphalerite-dolomite veins subparallel S2. Texturally these are identical to ribbon banding "veins" present in 4A - only here they occur in a softer phyllite and are slightly dolomitic. Photos taken. IDI-332' core very broken & locally rubbly // 332-EOI core intact. Recovery throughout is OK
	3333 2	3370 7 102 7		27	4L$2	4 1 ± POROUS Strange rock which is structurally thickened by D2 folding - several hinges noted in core. Interbanding of two major rock types. One is soft, creamy white, noncalcareous, PS2-foliated, muscovite phyllite. S2 surfaces are silvery cream. Very micaceous, very muscovite-rich. Second is dolomitic, qtzose, pyritic sulphides. Medium coarsely equigranular mixture of pyrite, dolomite, qtz ± sphalerite. Sphalerite occurs in thin compositional bands parallel S1. Locally sulphide-bearing intervals are extremely porous. Banding on a scale of 1-5 cm. Don't really know what parent rock was - possibly a highly altered wall rock phyllite - or metabasite. Core mod. broken w/ good recovery

DDH 89G-18

CURRAGH RESOURCES INC.
Lithologic Log

Date: Aug 27/89 Logged By: LCP

Code	From	To	Recov.	No.	Unit	Description
1	10 14	16 20	22 24	26 28	30 34	35
						Pyrite content 35%. Estimated grade 2-4% (Pb+Zn) About 30% muscovite phyllite.
	13170	13196		218	14A34	(5C4 $) 70:30
		1035				TOI for 0.8 feet is pale tan-green, very soft, PS2-foliated, dolomitic, highly altered metabasite. Dominant micaceous mineral is bright green "fuchsite" occurring as discontinuous streaks in grey, dolomitic matrix. Unit very weathered looked & incipiently gouged - related to rock type. Recovery good.
						Rest of interval is very pyritic, carbonaceous qtzite. Discontinuous carbon laminae w/ qtz eyes in pyritic S= matrix. S2 surfaces are dark steely grey. Total sulphides 70-90% Estimated grade 10% (Pb+Zn) Amt of qtz & carbon increases as go down DDH. Core slightly broken w/ good recovery
	13196	13482		219	15C7$	±4 (4D0) 60:40
		1061				Very soft, PS2-foliated, pale to medium green, slightly dolomitic, chlorite-muscovite phyllite. S2 surfaces are pale silvery green w/ medium green spots. On cut surface medium green chlorite forms streaks defining dominant S2 foliation. Dolomite disseminated in pale green matrix. Lithology locally altered to nondolomitic, pale tan muscovite (?) phyllite w/ thin discontinuous streaks of bright green "fuchsite". Locally altered metabasite also has pyrite streaks.
						Contains interbands of pale grey, hard, noncalcareous, pyritic qtzite. S2 surfaces are silvery white & quite micaceous. Pyrite & sphalerite form compositional bands 1-3 cm thick generally parallel S2. Within bands sulphides form interstitial network surrounding qtz "grains" Lower contact gradational to darker grey. Pyrite content 10%. Estimated grade 6% (Pb+Zn) Core slightly broken except for minor gouge @ TOI. Recovery is good

DDH 89G-18
2 8

CURRAGH RESOURCES INC.
Lithologic Log

Date: Aug 27/89 Logged By: LCP

Code	From	To	Recov.	No.	Unit	Description
1	10 14	16 20	22 24	26 28	30 34	35
	131418 2	131515 6 108 4		1310	14D15T	±4 Entire interval is a slightly bleached 4A w/ good ribbon-banded texture. S2 surfaces are silvery grey to dark silvery grey. CS2-foliated, hard, noncalcareous, pale to medium grey qtzite. Overall sphalerite > pyrite. Sphalerite forms pressure soln. stripes along S1 and S2 cleavages. - S2 stripes are thicker. Also 1cm sulphide-rich compositional bands subparallel S2. Pyrite content 1-10% Estimated grade generally 6-7% w/ some locally intervals 10-12%. Core mod. brken w/ good recovery
	131515 6	131517 1 108 8		1311	13G1116	9 Minor Similar to last Unit # 30 (348.2 - 355.6) only definitely a softer phyllite rather than a qtzite. CS2-foliated, noncalcareous, dark grey, moderately hard phyllite. S2 surfaces are dark silvery grey. Contains thin reddish brown, discontinuous, sphalerite stringers parallel S2. Unit is qtzose. Estimated grade 1-3% Only minor pyrite. Core very brken & rubbly w/ good recovery
	131517 1	131612 7 110 6		1312	14L1114	(5D64)(3G0) 50:TRACE:50 Top of unit consists of hard, noncalcareous, siliceous muscovite phyllite to muscovitic pale white qtzite. S2 surfaces are silvery cream w/ abundant muscovite. CS2-foliated w/ qtzose intervals defining S1 microlithons. Minor thin sphalerite laminae along S1. As go down DDH changes to moderately soft, medium grey, PS2-foliated, noncalcareous phyllite. S2 surfaces are silvery grey. In actual core have a few thin intervals of noncalcareous, PS2-foliated, pale tan, homogeneous, muscovite phyllite (5D64) Core very brken & locally rubbly. 357-362 has only 4 feet core.

DDH BG96-18

CURRAGH RESOURCES INC.
Lithologic Log

Date: Aug 27/89 Logged By: LCP

From	To	Recov.	No.	Unit	Description
131612 7	131618 0 (112 2)		1313	141615 3	(4L24)(5D46) 70:20:10 At TOL have 0.5 feet of soft, pale tan, noncalcareous, PS2-foliated altered SD. S2 surfaces are silvery tan from muscovite. Homogeneous. Then go down DDH have hard, noncalcareous, ribbon-banded, pale grey, pyritic qtzite. S2 surfaces are silvery grey. Pyrite occurs as large subhedral to anhedral grains disseminated in off-white qtz "ribbon-bands" It also forms compositional bands up to 1cm thick. Pyrite content 30% Grade ~ 1-2% Last unit is moderately hard, PS2-foliated, muscovite-rich qtzite or qtzose muscovite phyllite. S2 surfaces are pale silvery cream. Contains thin sphalerite-rich bands and stringers generally parallel S2. Core very broken and rubbly. No gouges apparent. Incipient fracturing w/ slight displacements occurs through the HC. Interval 362-367 has only 4' core. Otherwise recovery looks OK
131618 0	131711 9 (113 4)		1314	41D4161@3	I 5 I 9 MINOR Hard, PS2-foliated, pale grey, pyritic qtzite. S2 surfaces are light silvery grey. Locally interval has medium grey colours w/ dark grey carbonaceous streaks. In lower part of unit have tan-weathering anhedral (?) chunks up to 1cm across. Sphalerite forms compositional bands up to 3cm thick generally parallel S2. Sphalerite > pyrite. Pyrite content 25% Estimated grade 12% (Pb+Zn) Unit locally slightly porous along late steep fractures. Core mod. broken for top half & very broken and rubbly for bottom half. Recovery looks OK Lower contact w/ next unit hidden in rubble.
131711 9	131714 4 (114 1)		1315	51D161419	Soft, PS2-foliated, noncalcareous, creamy white, muscovite phyllite. S2 surfaces are shiny, silvery white. Weathers to a pale tan. Contains thin discontinuous pyrite streaks.

DDH 89G-18
2 8

CURRAGH RESOURCES INC.
Lithologic Log

Date: Aug 27/89 Logged By: LCP

Code	From	To	Recov.	No.	Unit	Description
1	10 14	16 20	22 24	26 28	30 34	35
						Mso has intervals w/ pegmatitic white qtz + pyrite. Core looks disrupted by post-D2 folding and fracturing. Core mod. broken to very broken & rubbly. Recovery OK
	131714 4	131819 2 118 6		1316	141D1310	±5 ±4 (4E4$ "POROUS") 95:05
						Major unit is very hard, pale grey-white, dominantly PS2-foliated, noncalcareous, pyritic qtzite. Pyrite forms diffuse compositional bands up to 15cm thick parallel S2. Pyrite as bands disseminated in qtzose matrix. Locally sphalerite associated w/ pyrite although commonly sphalerite forms thin S2-parallel bands of its own. S2 surfaces are silvery white. Over some intervals qtzite is slightly darker grey w/ thin discontinuous carbonaceous streaks defining S2. S2 surfaces are silvery grey in these intervals.
						Interval 382.4 - 385.4 consists of porous pyritic sulphides w/ fine sphalerite disseminated in matrix. Compositional banding parallel S1. Grade for this short interval will be 15-20% (Pb+Zn).
						Pyrite content 25-35%. Estimated grade range from 7% to 15% (Pb+Zn). Core intact to slightly broken. Porous along steep fractures 20° wrt core axis. Recovery is excellent.
	131819 2	131915 1 120 4		1317	41A14131	BXA
						Hard, medium dark grey, noncalcareous, very pyritic qtzite. S2 surfaces are dark steely grey. Contains thick pyrite ± sphalerite compositional bands up to 5cm thick these are generally parallel S2. CS2-foliated S1 microlithons defined by compositional banding in grey background qtzite and by qtz-sphalerite ± pyrite ribbon bands. Superimposed on interval is post D2 bxa texture along steep fractures. Locally porous associated w/ fractures. Clasts angular and do not appear to have moved far. One S2 surface has horizontal slickensides. Core intact to mod. broken w/ good recovery. Probably not a major fault. Grade 7% (Pb+Zn) Pyrite = 35%

C.R.I. 1987 F-7A

DDH EgG-L8
2 8

CURRAGH RESOURCES INC.
Lithologic Log

Date: Aug 27/89 Logged By: HCP

Code	From	To	Recov.	No.	Unit	Description
1	10 14	16 20	22 24	26 28	30 34	35
	131915	141013 3 122 9		1318	41A141	±3 ±4 (5D64) 97:03
						Very hard, dark grey, CSZ-foliated, noncalcareous, ribbon-banded qtzite. SZ surfaces are dark steely grey. Displays well-developed ribbon-banding w/ qtz-5% pale grey bands in a dark grey sulphide-poor matrix. In upper portion of unit have 1-3cm thick pyrite-rich compositional bands parallel SZ. Pyrite constitutes 25-30% of unit. Estimated grade 6-8% Pb+Zn.
						In lower part of interval qtzite loses pyritic banding and becomes extremely sphalerite rich. Estimated grade 20% (Pb+Zn) Grey banded bands become "islands" in sphalerite ± pyrite-qtz bands. Pyrite content only about 5%.
						Near EOI have 0.5 foot interval of PSZ-foliated, homogeneous, soft, noncalcareous, pale buff muscovite phyllite (altered SD) SZ surfaces are pale silvery beige. Locally contains minor pyritic qtzite.
						Core slightly broken to mod. broken w/ good recovery.
	141013 3	141213 3 129 0		1319	13G101	±9 (3B±4) MINOR
						Moderately soft, PSZ-foliated, noncalcareous, medium grey phyllite. SZ surfaces are silvery grey to steely grey. Locally contains thin pale grey qtzose siltstone bands up to 1cm thick.
						Contains thin bands of pale beige, dolomitic, PSZ-foliated, muscovite-dolomite phyllite. SZ surfaces are silvery beige. Marginal contacts are sharp. Interbands are up to 10cm thick.
						TOI-410 Very broken & rubbly w/ gouges. 402-405.5 only 2.3 feet core, 405.5-410 only 2.5 feet core. gouges appear parallel SZ.
						410-EOI mod. broken & mod. poker chippy w/ good recovery.

DDH 89G-18
2 8

CURRAGH RESOURCES INC.
Lithologic Log

Date: Aug 27/89 Logged By: LCP

Code	From	To	Recov.	No.	Unit	Description
1	10 14	16 20	22 24	26 28	30 34	35
	4213 3	4411 0		40	3G01	(10 Q0)
		134 4				Intervals 423.3 - 431.5 and 436.2 - 439.0 consist of barren pegmatitic white qtz.
						Rest of unit consists of moderately soft, PS2-foliated, noncalcareous, medium grey phyllite. S2 surfaces are silvery grey
						TOI - 431.5 Very broken & rubbly because within qtz vein. 423-430 only 5 feet of core. 430-431.5 only 1 foot of core
						431.5 - EOI mod to very poker chippy Recovery OK - probably 95%
						EOH
						Sulphides intersections could be considered symmetrical but phyllites at top of DDH and bottom of DDH are not the same at all.
						LCP

DDH 89-G-18 (2 8)

CURRAGH RESOURCES INC.
Structural Log

Page 1 of 1

Date: Aug 13/89 Logged By: TLK

Code	From	To	Feature	Sym	S_0 Dip Direct.	S_1 Dip Direct.	S_2 Dip Direct	Description
	10 14	16 20	22 24	26	28 32	34 38	40 44	
		68	CS2S			09 024	78	S_1 defined by comp. banding S_2 by micaceous fltn. Fold hinge (F
		902	CS2	-		18 251	68	fold hinge (F_2) S_1 defined by comp. band S_2 by chloritic fltn.
		919	PS2	-		$S_3/4$ 3 000	78	fold hinge (F_2) defined by micaceous (chl.) fltn.
		1013				—		fold hinge (F_2)
		1235	PS2	-		— —	61	S_2 defined by micaceous fltn.
		1445	PS2	-		— —	54	" "
		1666	CS2S			12 000	65	F_2 fold hinge S_1 defined by comp banding S_2 by chloritic fltn.
		17655						F_2 fold hinge
		1866	CS2S			13 077	67	S_1 defined by comp. banding S_2 " " micaceous fltn.
		20455	CS3			S_3 44 056	64	Defined by chloritic fltn
		19155	PS2	-		— —	65	" " "
		2119	CS2	-		10 063	65	fold hinge S_1 defined by comp banding S_2 by chloritic fltn.
		22755	CS2			24 283	77	" fold hinge " "
		2455				— —		fold hinge defined by sphalerite bands
		2477	PS2			— —	64	Defined by sphalerite bands
		2612	PS2			— —	64	S_2 defined by sphalerite bands
		2910	PS2	-		— —	52	S_2 defined by bands of chlorite
		3177	CS2S			08 000	60	S_1 defined by comp. banding S_2 by micaceous fltn. fold hinge (F
		3288	CS2Z			13 223	60	" " " (NO FOLD HINGE)
		3499	CS2			12 057	70	fold hinge (F_2) S_1 defined by comp. banding S_2 by micaceous fltn.
		3766	PS2			— —	64	S_2 defined by pyrite + sphalerite bands
		3988	CS2	-		14 —	89	F_2 fold hinge S_1 defined by comp banding S_1 by micaceous fltn + pyrite bands
		41414				11 124	72	S_1 defined by comp. banding S_2 by micaceous fltn.
		41655				— —		fold hinge (F_2)
		4223				15 —	89	fold hinge (F_2) S_1 defined by comp. banding S_2 by micaceous fltn.
								— EOH —

DDH 89G-118 (2 of 8) CURRAGH RESOURCES INC. Page ____ of ____

ASSAY LOG (SAMPLER'S COPY) Date Aug 27/89 Logged by LCP Sampled by ____

CODE	FROM	TO	SAMPLE	INTR.	REC (m)	UNIT	DESCRIPTION
	10 94	16 71.26	22 — 0 — 26	28 — 30	32 — 34	36 WASTE 40	42
	121314 5	121316 3	1 14915 11	0.15	0.15	41D13141	
	121316 3	121411 6	1 14915 12	1.6	1.6	41D1011	
	121411 6	121417 3	1 14915 13	1.8	1.7	41D15T1	
	121417 3	121511 1	1 14915 14	1.1	1.4	41D1411	
	121511 1	121515 5	1 14915 15	1.4	1.4	41D1411	
	121515 5	121610 5	1 14915 16	1.5	1.5	41D1411	
	121610 5	121615 1	1 14915 17	1.4	1.5	41D1411	
	121615 1	121619 0	1 14915 18	1.2	1.4	41D141 1	
	121619 0	121713 0	1 14915 19	1.2	1.0	5TC7141$	
	121713 0	121716 2	1 14916 10	1.0	1.0	41D15141	
	121716 2	121810 2	1 14916 11	1.2	1.3	41D1411	
	121810 2	121814 7	1 14916 12	1.4	1.6	41D1411	
	121814 7	121818 7	1 14916 13	1.2	1.3	41D15141	
	121818 7	121912 0	1 14916 14	1.0	1.0	5IC171$1	
	121912 0	121915 8	1 14916 15	1.2	1.2	41D1411	
	121915 8	121919 0	1 A 91616	0.9	0.9	41D1411	
	121919 0	131013 0	1 14916 17	1.3	1.4	41D1411	
	131013 0	131016 8	1 14916 18	1.1	0.6	41E1A141	
	1 19 15.5	1 1 0 1 1.6	— 0 —	—	—	WASTE	
	131313 2	131317 0	1 14917 09	1.1	1.1	41K1$1214	
	131317 0	131319 6	1 14917 10	0.8	0.8	41A1314 1	
	131319 6	131414 6	1 14917 11	1.5	1.5	5KC171$1	14D0
	131414 6	131418 2	1 14917 12	1.1	1.2	41D1011	
	131418 2	131512 0	1 14917 13	1.2	1.2	41D151 1	
	131512 0	131515 6	1 14917 14	1.1	1.10	41D151 1	
	131515 6	131517 1	1 14917 15	0.4	0.4	31G11916	
	131517 1	131612 7	1 14917 16	1.8	1.0	41A1141	
	131612 7	131618 2	1 14917 17	1.2	1.0	41C15131	
	131618 0	131711 9	1 14917 18	1.2	1.10	41D14@13	
	131711 9	131714 4	1 14917 19	0.7	0.7	5TD16419	
	131714 4	131719 5	1 14918 10	1.6	1.7	41D3101	15
	131719 5	131814 3	1 14918 11	1.5	1.6	41DE141	
	131814 4	131819 2	1 14918 12	1.4	1.4	41D1310	
	131819 2	131915 1	1 14918 13	1.8	1.8	41A14131	BXA
	131915 1	131919 0	1 14918 14	1.2	1.3	41A14131	
	131919 0	141013 3	1 14918 15	1.3	1.4	41A1414 1	
	1 2 2.4	1 3 4.4	— 0 —			WASTE	
			EOH				

PROJECT _____ DRILLHOLE NO. 896-18 COORDINATES: N _____ DATE Aug 28/89

LOCATION Grum HOLE SIZE NQ E _____ PAGE __ of __

LOGGED LCP INCLINATION _____ ELEVATION _____

FEET

PITEAU & ASSOCIATES
GEOTECHNICAL CONSULTANTS
VANCOUVER CALGARY

GEOTECHNICAL CORE LOG

DEPTH (To)	LENGTH OF RUN	CORE RECOVERY		RQD		HARDNESS	DEGREE OF BREAKAGE		DEGREE OF WEATHERING	ROCK TYPE	BEDDING DIP		BEDDING JOINTS		CROSS JOINTS		COMMENTS
		LENGTH	%	LENGTH	%		CATEGORY	NO.			DEPTH	ANGLE	NO.	FREQ.	NO.	FREQ.	
22	22	0															CASING - FECONED
27	5	0															No core recovered
30	3	2.1		0											.		Overburden
32	2	0		0													No core .
45		0		0													Overburden
49.5		2.2		0			5		D						0		
57.5		0.6		0			6		F						1		Mistake
62		3.4		0			6		F						0		
67.5		1.6		0			6		E						2		
72		4.3		0.4			9		F						1		
77.5		2.6		0			6		F						1		
81		2.6		0			6		F						1		
85.5		4.4		0			6		F						4		
91.5		4.3		0			7		F						1		
97		5.2		0			7		F						3		
100.5		2.4		0			6		F						2		
106		5.3		0			7		F						0		
111.5		1.5		0			6		F						0		
116		3.8		0			6		F						4		
118		2.0		0			6		F						1		
121		1.2		0			6		F						1		
123.5		1.3		0			6		F						1		
127.5		2.0		0			6		F						2		
133		5.0		0.8			9		F						1		
137		3.7		0.9			7		F						1		
139		1.7		0			6		F						2		

Fig. 1. Typical rock mechanics core log.

PROJECT _____ DRILLHOLE NO. 896-18 COORDINATES: N _____ DATE _____

LOCATION _____ HOLE SIZE NQ E _____ PAGE __ of __

LOGGED LCP INCLINATION _____ ELEVATION _____

PITEAU & ASSOCIATES
GEOTECHNICAL CONSULTANTS
VANCOUVER CALGARY

GEOTECHNICAL CORE LOG

DEPTH (TO)	LENGTH OF RUN	CORE RECOVERY		RQD		HARDNESS	DEGREE OF BREAKAGE		DEGREE OF WEATHERING	ROCK TYPE	BEDDING DEP		BEDDING JOINTS		CROSS JOINTS		COMMENTS
		LENGTH	%	LENGTH	%		CATEGORY	NO.			DEPTH	ANGLE	NO.	FREQ.	NO.	FREQ.	
144.5		5.7		0.8			8		F						2		
149.5		4.1		0.5			8		F						2		
156.5		1.1		0			6		F						1		
157.5		5.2		1.9			9		F						1		
159		2.0		0			6		F						3		
164		5.1		0.4			7		F						2		
169		5.5		0.4			7		F						3		
174.5		5.2		1.2			10		F						6		
180		5.2		2.6			12		F						3		
185		5.0		0			8		F						4		
189		3.6		0			8		F						4		
194.5		4.5		0.8			7		F						4		
197		2.2		0			6		F						1		
200		3.2		0			6		F						4		
204		4.3		0			7		F						2		
209.5		5.3		0.4			7		F						3		
213.5		4.1		0.4			6		F						3		
218.5		5.4		3.1			11		F						1		
223.5		5.0		1.8			11		F						2		
228.5		5.4		0			7		F						3		
232	3.5	4.0	114%	0			7		F						2		
237	5	4.8	96%	2.3			13		F						2		start of ore
242	5	5.0	100%	2.9			10		F						2		
247	5	4.7	94%	3.0			11		F						3		
250.5	3.5	4.4	126%	1.5			9		F						1		
255.5	5	5.1	102%	3.0			11		F						0		

Fig. 1. Typical rock mechanics core log.

PROJECT _____ DRILLHOLE NO. 896-18 COORDINATES: N _____ DATE _____

LOCATION _____ HOLE SIZE NQ E _____ PAGE __ of __

LOGGED KCP INCLINATION _____ ELEVATION _____

PITEAU & ASSOCIATES
GEOTECHNICAL CONSULTANTS
VANCOUVER CALGARY

GEOTECHNICAL CORE LOG

DEPTH (TO)	LENGTH OF RUN	CORE RECOVERY		RQD		HARDNESS	DEGREE OF BREAKAGE		DEGREE OF WEATHERING	ROCK TYPE	BEDDING DEP		BEDDING JOINTS		CROSS JOINTS		COMMENTS
		LENGTH	%	LENGTH	%		CATEGORY	NO.			DEPTH	ANGLE	NO.	FREQ.	NO.	FREQ.	
260.5	5	5.0	100	5.0			13		F						1		
265.5	5	5.4	108	3.6			11		F						1		
268	2.5	2.9	116	0.5			8		F						3		
273	5	4.3	86	0.9			5		F						4		
277.5	4.5	4.5	100	2.2			9		F						2		
282	4.5	5.4	120	3.5			13		F						1		
287	5	5.3	106	3.0			12		F						3		
292	5	5.0	100	1.2			9		F						1		
297	5	5.0	100	1.3			10		F						1		
302	5	5.2	104	3.6			11		F						0		
307	5	2.9	58	1.2			12		E						2		
312	5	4.0	80	0			6		E						2		phyllite
315.5	3.5	2.7	77	0			6		F						0		"
320.5	5	5.2	104	1.2			10		E						2		"
324	3.5	3.2	91	0.4			9		F						3		"
332	8	7.2	90	2.6			7		E						3		"
337	5	5.2	104	3.0			11		E						3		start of core
342	5	4.8	96	1.2			8		E						3		
347	5	5.5	110	2.1			10		F						3		
352	5	5.2	104	2.4			10		E						4		
357	5	4.7	94	0.4			7		E						3		
362	5	2.9	58	0			7		E						4		
367	5	3.5	70	0.9			7		E						4		
368	1	0.9	90	0			6		E						1		
372	4	3.3	83	1.3			8		E						2		
377	5	5.7	114	0.7			9		E						6		

Fig. 1. Typical rock mechanics core log.

PROJECT _____ DRILLHOLE NO. 896-18 COORDINATES: N _____ DATE Aug 28/89

LOCATION _____ HOLE SIZE _____ E _____ PAGE __ OF __

LOGGED LCP INCLINATION _____ ELEVATION _____

PITEAU & ASSOCIATES
GEOTECHNICAL CONSULTANTS
VANCOUVER CALGARY

GEOTECHNICAL CORE LOG

DEPTH (To)	LENGTH OF RUN	CORE RECOVERY		RQD		HARDNESS	DEGREE OF BREAKAGE		DEGREE OF WEATHERING	ROCK TYPE	BEDDING DEP		BEDDING JOINTS		CROSS JOINTS		COMMENTS
		LENGTH	%	LENGTH	%		CATEGORY	NO.			DEPTH	ANGLE	NO.	FREQ.	NO.	FREQ.	
382	5	5.0	100	3.6			14		E						1		
387	5	5.4	108	3.5			13		E						2		
392	5	4.8	96	2.4			12		E						5		
397	5	5.3	106	2.3			12		E						8		
402	5	5.3	106	2.2			12		E						4		
405.5	3.5	2.1		0			6		F						1		phyllite
410	4.5	3.5		0			3		F						4		
414	4	3.5		0			6		F						1		
419	5	5.2		0.8			7		F						2		
422		2.6		0.4			6		F						2		
426.5		3.8		0.4			6		F						1		
430		1.9		0			4		F						0		
431.5		1.2		0			4		F						0		
435.5		3.9		0			6		F						3		
441		4.7		1.2			6		F						4		
							EOH										

Fig. 1. Typical rock mechanics core log.

89-G-19

CURRAGH RESOURCES INC.

Page 1 of ____

DIAMOND DRILL CORE LOG

Date: _____

Hole Number: 89G-19

Reference Fabric Orientation Diagram:

Project: GRUM FILL IN

Location: _____

Claim: _____

~~Terr.~~ UTM Plane Co-ords.: 6904502.879 N 5,968.15 N

592432.025 E 2,458.81 E

Grid Co-ords: 60W / 5S

Elevation: 1260.761

All symmetry determinations looking

Total Depth: 767 feet

_____ with _____ dipping

Inclination: -90° VERTICAL

_____ with dip azimuth _____.

Purpose: to test Champ zone

Reason hole Terminated: Drilled through ore

Logged by: _____

Date(s) Logged: _____

Drilling Contractor: ARCTIC

	Size	CORE From	To
	NW	0	37 feet
	NQ	37	767 feet

Collar Cased and Capped: No

Hole Cemented: No

Steel down Hole: No

Assay Lab: _____

Certificate No's: _____

Started: July 22/89 Completed: _____

C.R.I. 1987 E - 1

CURRAGH RESOURCES INC.

Diamond Drill Core Log

DDH _____ 2 8

Date: _____ Logged By: _____

Code	Drillhole	Elevation	Northing	Easting	Units (feet/metres)	R.F.E.	
1	2 8	10 16	17 24	25 32	34 39	41 42	
T							

Code	Drillhole	Depth	Zenith Angle	True Azimuth	Comments
1	2 8	10 14	22 26	28 32	34 56
R	89G-19	0 0	-90.0	0.0	AT COLLAR
R	89G-19	299 0	-85.0	010.0	SPERRY SUN
R	89G-19	449 0	-85.0	023.0	SPERRY SUN
R	89G-19	599 0	-85.5	003.0	SPERRY SUN
R	89G-19	749 0	-83.5	025.0	SPERRY SUN
R			.	.	
R			.	.	
R			.	.	
R			.	.	
R			.	.	
R			.	.	
R			.	.	
R			.	.	
R			.	.	
R			.	.	
R			.	.	
R			.	.	
R			.	.	
R			.	.	
R			.	.	
R			.	.	
R			.	.	
R			.	.	
R			.	.	

Code	Drillhole	Comments, Errant Remarks, Snivellings and / or Lewd Suggestions
1	2 8	10 56

DDH 89G-19
2 8
FEET

CURRAGH RESOURCES INC.
Lithologic Log

Page 3

Date: Aug 29/89 Logged By: LCP

Code	From	To	Recov.	No.	Unit	Description
1	10 14	16 20	22 24	26 28	30 34	35
	10 0	317 0		1	#1	FICONED - NORECOVERY
		11 3				
	317 0	317 3		2	#1	OVERBURDEN
		11 4				Numerous rounded pebbles up to 3 cm across. Dominantly granites w/ some qtz vein material and minor brown chert.
	317 3	814 0		3	5A11$	
		25 6				Moderately hard to hard, PS2-foliated, black, noncalcareous, slightly dolomitic, siliceous, carbonaceous phyllite. S2 surfaces are smooth, shiny black and do not mark the fingers. Overall fabric PS2. In intervals w/ qtz-dolomite siltstone bands may have a poorly developed CS2-fabric. Siltstones are generally less than 0.5 cm thick but occur in clusters. Contains ovoid, fine-grained, black "cherty" nodules and compositional bands. Also contains thin, streaky, white pyrite-qtz veinlets. Veinlets are folded by D2. Unit breaks into angular chunks because of siliceous nature. Minor fine streaky pyrite in phyllite matrix.
						TOI - 38.5 Core mod brken w/ good recovery // 38.5-51.5 very brken and rubbly w/ good recovery, no gouge // 51.5-62.7 very brken & rubbly. lots of reground pieces of core. 48-59 has only 5 feet core, most probably lost near end, 59-62.5 has only 2 feet core // 62.7-67.0 slightly brken w/ good recovery // 67.0-EOI mod brken & locally rubbly. 62.5-68 has 4.5 feet core lost either near 62.5 or 68.0, 68-70 has 1.5 feet core, 70-73.5 has 3.5 feet core, 73.5-84 has 2.3 feet core probably lost near 84. Major losses associated w/ very brken & rubbly core - often w/ no gouges
						Photos Taken.

DDH 89G-19
2 8

CURRAGH RESOURCES INC.
Lithologic Log

Date: Aug 29/89 Logged By: LCP

Code	From	To	Recov.	No.	Unit	Description
1	10 14	16 20	22 24	26 28	30 34	35
	184 0	1116 7		4	5B2$	± GOUGE
		35 6				Moderately soft, PS2-foliated, dark grey, dolomitic phyllite. S2 surfaces are dark silvery grey to steely grey. Contains thin pale tan-weathering qtz-dolomite-pyrite siltstone bands. S2 surfaces are not as smooth and planar as last unit. Siltstone bands are up to 1cm thick and form clusters up to 5cm thick.
						TOI-88 black and dark grey mud gouge. Only 1.5 feet of core recovered // 88-EOI very broken and rubbly, very poker chippy, intervals of incipient gouges. 88-95 has 2.3 feet core, 95-98 has 1.7 feet core, 98-103 has 1.8 feet core, 103-108 has 3 feet core, 108-111 has 2 feet core, 111-113 has 1.5 feet core, 113-114.5 has 1.2 feet core, 114.5-EOI has 1.3 feet core. Significant core loss throughout interval. Appears to be preparatory to next unit
	1116 7	1139 5		5	GOUGE	(5B2$) (5A1$) 80:10:10
		42 5				Dominantly a dark grey to black mud gouge w/ clasts of last two units and vein qtz. No orientations possible. Below 126 feet consists of pieces of the last two units - the horrible recovery in this interval suggests the mud gouge has washed out.
						TOI-126 mud gouge - only 5 feet of core // 126-EOI very broken & rubbly w/ minor gouge. 126-135 only 1.7 feet core, 135-EOI has 2.3 feet of core. S2 disrupted by faults.
	1139 5	1167 4		6	5A1$	(5D4$) TRACE
		51 0				Same as Unit # 3 (36.7-84) Very dark grey to shiny black, PS2-foliated, moderately hard to hard, dolomitic phyllite. S2 surfaces are smooth, planar shiny black and do not mark fingers. Contains ovoid black "cherty" nodules up to 1cm across. Minor thin qtz ± dolomite siltstone bands occur in clusters. Also contains numerous qtz-pyrite veinlets. Strong carbonaceous S2 pressure solar striping gives unit a "ribbed" appearance. Core very broken and rubbly. Breaks into

DDH 89G-149
2 8

CURRAGH RESOURCES INC.
Lithologic Log

Date: Aug 29/89 Logged By: LCP

Code	From	To	Recov.	No.	Unit	Description
1	10 14	16 20	22 24	26 28	30 34	35
						small angular pieces. TOI-141 has 1.4 feet core / 141-145 has 1.8 feet core / 145-151 has 6.8 feet core (spread out) / 151-157 has 6 feet core / 157-167 has 10 feet of core.
						Phyllite contains thin (1cm or so) compositional bands of pale tan, soft, PS2-foliated, slightly dolomitic phyllite. Marginal contacts are sharp parallel S1 and folded by D2. Represents altered metabasite lithology.
	111617 4	111813 3		17	STA1/1$1	RUBBLE ± GOUGE
		55 9				Same rock type as Units # 3(36.7-84.0) and # 6(139.5-167.4). Hard, black, PS2-foliated, non-calcareous, slightly dolomitic phyllite. S2 surfaces are smooth shiny black. Contains extensive zones of mud gouge. Gouge contains clasts of this phyllite up to 2cm across. S2 foliations in clasts is randomly oriented. Gouging related to fractures running straight down the core axis. 0/090 wrt S2. Lower contact is where gouges are no longer present.
						Entire unit very broken, very rubbly w/ mud gouge. 167-173 has 1.5 feet core / 173-175.5 has 1.3 feet core / 175.5-182 has 6 feet core / 182-189.5 has 3 feet core. Significant core loss for at least part of this zone. Same rock type on both sides of fault
	111813 3	121010 0		18	STA1/1$1	
		61 0				Similar to previous STA units in this DDH. Hard, black, slightly dolomitic, thinly banded phyllite. S2 surfaces are smooth shiny black. Contains more extensive thin dolomitic siltstone bands. Also more extensive qtz-pyrite veinlets which are subparallel to the siltstones. Black, fine-grained, "dusty" nodules are more common and slightly larger locally. The nodules are broken w/ white qtz infilling the fracture area. Intervals w/ abundant siltstones show well developed CS2-foliation.
						TOI-190 Very broken & rubbly - no gouges // 190-196 mod. broken // 196-200 very

DDH 96-19

CURRAGH RESOURCES INC.

Lithologic Log

Date: Aug 29/09 Logged By: LCP

Code	From	To	Recov.	No.	Unit	Description
1	10 14	16 20	22 24	26 28	30 34	35
						broken & rubbly but no gouges. Recovery looks good for the entire interval. — No major core loss — no faults.
	121010 0	121017 7 63 3		19	5TA111$1	± GOUGE Same rock type as previous 5A units in this DDH. Hard, PS2-foliated, dark grey to black, slightly dolomitic phyllite. S2 surfaces are smooth, shiny black. Weathers to a slightly paler grey colour. Dolomite occurs w/ qtz in thin siltstone bands. Unit very broken and rubbly w/ intermixed gouge zones. Gouges oriented along fractures parallel core axis. 200 - 203 mud gouge w/ rubble / 203 - 205.5 very broken & rubbly w/ no gouge / 205.5 - EOI. very broken & rubbly w/ gouge In spite of gouges lower contact appears gradational and conformable. Not a major fault.
	121017 7	131162 96 4		110	5TB121$1	Similar to Unit # 4 (84 - 116.7) Soft, PS2-foliated, moderately dolomitic, medium dark grey phyllite. S2 surfaces are silvery grey to steely grey. Contains scattered, irregular pyrite porphyroblasts. Compositional banding as S1 and S2 parallel stripes in shades of greys. Striping not totally planar but slightly wavy, irregular, with pinches and swell features. Contains pale grey siltstone bands which are locally CS2-foliated. Siltstones contain tan-weathering, disseminated dolomite. Also contains the occasional, rare, 1 cm across black cherty nodules. Typically has crudely S2-foliaform pegmatitic white qtz-dolomite veins up to 20cm. thick. TOI - 231.5 Very broken w/ rubbly intervals. Some minor thin gouges - recovery OK // 231.5 - 235 Rubbly w/ abundant mud gouge. Gouges on steep fractures parallel core axis — recovery OK // 235 - EOI mod. broken w/ short rubbly intervals - recovery OK.

DDH 89G-19

CURRAGH RESOURCES INC.
Lithologic Log

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Date: Aug 30/89 Logged By: LCP

Code	From	To	Recov.	No.	Unit	Description
1	10 14	16 20	22 24	26 28	30 34	35
		31162		110		Last 0.5 feet against sulphides is bleached to a pale grey. S2 surfaces are silvery grey. Contains minor pyrite infilling thin xcutting fractures. Lower contact w/ sulphides sharp, conformable, parallel S2.
	31162	32157		111	4L624	$89 [4L624 (4E$89)]
		993				One of those difficult to classify units. Interbanded dolomitic pyritic sulphides and pale green, soft, pyritic phyllite on a scale of 1 cm - 10 cm. Dolomite occurs as tan-weathering clasts and disseminated in matrix of very pyritic intervals. Pyritic intervals also locally contain minor magnetite and rare chalcopyrite. Cpy occurs in thin late xcutting fractures. S2 surfaces for phyllite are pale silvery green. Phyllite contains thin streaks and bands of pyrite ± sphalerite-galena.
						Overall a strongly banded unit w/ extensive phyllite interbands. A very dolomitic unit w/ both disseminated dolomite and dolomite clasts. Grade is poor 2-4% (Pb+Zn). Pyrite content 30-60%
						Core intact w/ excellent recovery. Core slightly porous along steep xcutting fractures parallel core axis where dolomite is weathering recessively
	32157	32180		112	4E46$	89 (4L624$) 60:40
		1000				TOI-327 is thinly banded, baritic sulphides w/ some dolomite clasts. Banding on a scale of mm. Baritic bands contain pale honey coloured sphalerite. Minor thin discontinuous magnetite streaks. Cpy forms splashy fracture infillings. Banding S1 rotated into S2 - one fold nose is preserved. Pyrite content 65% Estimated grade 6-8% (Pb+Zn)
						327-EOI is similar to last Unit #11 (316.2-325.7). Pale silvery grey, soft phyllite w/ numerous thin pyritic sulphide interbands. Banding is on a scale of 1-10mm. Phyllite also contains minor pale grey dolomite clasts. Pyrite content 40%. S2 surfaces

DDH 89G-19
2 8

CURRAGH RESOURCES INC.
Lithologic Log

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Date: Aug 30/89 Logged By: LCP

Code	From	To	Recov.	No.	Unit	Description
1	10 14	16 20	22 24	26 28	30 34	35
		3218 0		112		pale silvery green w/ abundant pyrite bands and streaks. Estimated grade on 1-3% (Pb+Zn) Dark green chlorite in late xcutting fractures
						Core intact w/ excellent recovery
	3218 0	3310 7		113	4L62$	
		100 8				Soft, PS2-foliated, pale silvery green phyllite. Dolomite occurs as bands/clasts up to 1cm across. Pyrite forms similar compositional bands in association w/ dolomite and quartz. S2 surfaces are pale green silvery cream. Pyrite content only 5% or less. No grade in this unit [= (1%) Pb+Zn or less] Upper contact hidden in qtz vein. Lower contact gradational w/ rapid increase in pyrite content. Probably an altered metapelite. Texturally looks too laminated for altered SD metabasite. Core mod. broken to intact w/ good recovery.
	3310 7	3411 3		114	4E$8	±6 ±# POROUS (4L62) TRACE
		104 0				Moderately hard, brassy yellow, PS2-foliated, thinly banded, pyritic sulphides. Banding on scale of 1mm-1cm parallel S2. Minor streaks and blebs of magnetite. Minor thin bands contain barite. Dolomite as thin bands where disseminated in matrix and as 1cm diameter pale grey clasts. Locally unit also contains calcite disseminated in matrix. Thin bands (<1cm) are porous because of weathering out of carbonate. Pyrite content 85%. Estimated grade 3% (Pb+Zn) or less.
						5cm of pale green, slightly pyritic phyllite @ 331.5 feet
						Lower contact of unit steep fracture & bxa zone w/ at least 0.5 feet offset Fracture 0.5 wrt core axis. Last 1.5 feet of unit contains abundant pegmatitic, tan-weathering dolomite clasts up to 3-4 cm across. Bxa has S2 fltn. rotated in small clasts.
						TOI-339.5 slightly broken w/ good recovery // 339.5-EOI very broken on fractures - recovery good.

DDH 8960-19
2 8

CURRAGH RESOURCES INC.
Lithologic Log

Date: Aug 30/09 Logged By: LCP

Code	From	To	Recov.	No.	Unit	Description
1	10 14	16 20	22 24	26 28	30 34	35
	131411 3	131414 0		1115	41A101$1	
		104 9				Very hard, PS2-foliated, medium grey, ribbon-banded, pyritic qtzite. Ribbon banding marked by mm scale interbanding of dark grey qtzite and pale grey, slightly pyritic qtzite. Pale grey qtzite ribbons contain minor dolomite disseminated in matrix. Dolomite also occurs along thin cutting fractures. Locally unit is CS2-foliated - especially near bottom of interval. Pyrite content 10-20% Estimated grade 0% (Pb+Zn) - this unit is barren!
						Top contact is base along fracture w/ offset. Lower contact is gradational into next unit. Core mod. broken and rubbly. Recovery good.
	131414 0	131519 7		1116	41C1391	±5 ± $ minor ±7 minor (5D4$) MINOR
		109 6				Very hard, CS2-foliated, generally noncalcareous, pale grey, pyritic qtzite. S2 surfaces are qtzite grey w/ streaks and patches of silvery muscovite. S1 compositional banding generally defined by thin pyritic rich bands and laminae. Locally a dark grey carbonaceous banding (more typically HA) is preserved and also denotes S1 microlithons. Cpy occurs as fracture infillings along steep fractures at small angle core axis. Locally steep fractures also contain pyrite and pyrrhotite. Pyrite also forms diffuse compositional bands up to 3cm thick parallel S2. Very locally thin qtz-pyrite banding parallel S1 contains very minor dolomite. Pyrite content 30-35% Estimated grade less than 1% (Pb+Zn).
						Contains thin (5 cm or less) bands of pale tan, PS2-foliated, slightly dolomitic, muscovite-qtz phyllite. S2 surfaces are silvery cream. Constitutes only a very minor portion of this unit - thin bands @ 345 feet and 358 feet.
						Core mod. broken w/ good recovery
						Bottom and top contacts are gradational

DDH 89G-19 (2 8)

CURRAGH RESOURCES INC.
Lithologic Log

Date: Aug 30/89 Logged By: LGP

Code	From	To	Recov.	No.	Unit	Description
1	10 14	16 20	22 24	26 28	30 34	35
	131597	131611 5 110 2		117	4A10191	$ MINOR Very hard, medium grey, CSZ-foliated, pyritic chert. S2 surfaces are shiny black but do not strongly mark fingers. Contains ribbon banding of dark grey, py pyritic chert and pale grey pyritic chert on scale of mm to 1cm. Minor dolomite occurs in pale grey bands locally. Bands define S1 microlithons w/in S2 pressure soln stripes. Minor cpy infilling late, steep, recutting fractures. Pyrite content 15-20%. Estimated grade 1% (Pb+Zn). Core mod. broken w/ good recovery. Near EOI have incipient bxa developed on post D2 fracture. Orientation 30/180 wrt S2.
	131611 5	131615 9 111 5		118	4IE1$1810	I POROUS Moderately hard, PS2-foliated, brassy yellow pyrite. Vague compositional banding defined by diffuse dolomitic intervals and by thin, discontinuous magnetite streaks and blebs. Also contains zones of abundant coarse pegmatitic grey dolomite clasts. Clasts weather to an orange-tan. Unit is locally slightly porous because of matrix dolomite weathering recessively. Upper part of interval contains more dolomite clasts. Pyrite content 90%. Estimated grade 0% (Pb+Zn). Core mod. broken w/ good recovery. Broken on steep fractures which locally develop bxa textures w/ S= clasts in S= matrix. Lowest contact placed where get consistent and thorough going tectonic bxa texture
	131615 9	131619 4 112 6		119	4IE101$1	BXA (4AO) MINOR Tectonic bxa of angular to subrounded, slightly dolomitic pyrite clasts in a pyrite matrix. Clasts range up to 2 cm across. As go lowest interval begin to see more small 4A chert clasts in unit. Lowest contact where approx. 50% of clasts are 4A rather than 4E. Core coherent - excellent fault rock texture. Core intact to slightly broken w/ good recovery. Bxa

DDH 696-19 (2 8)

CURRAGH RESOURCES INC.

Lithologic Log

Date: Aug 30/89 Logged By: LCP

Code	From	To	Recov.	No.	Unit	Description
1	10 14	16 20	22 24	26 28	30 34	35
		131619 4		1119		appears to be developing along steep fractures running nearly parallel to the core axis. (10° wrt core axis) PHOTOS TAKEN
	131619 4	131714 7		1210	4 A 101	±3 BXA
		114 2				Hard, noncalcareous, dark grey, CS2-foliated, ribbon-banded, pyritic qtzite. Ribbon-banding defined by alternating dark grey qtzite and pale grey pyritic qtzite. Pyrite as small grains disseminated throughout. locally pyritic intervals form diffuse compositional bands parallel S2. Ribbon-banding defines S1 microlithons
						At TOI have well developed calcareous fault rock bxa with clasts of 4E and 4A in dark carbonaceous gouge matrix. As go down DDH bxa less well developed w/ intervals of "sediment" 4A Bottom of interval placed at last bxa zone Pyrite content of 4A generally 15% although locally 35%. Estimated grade 0% (Pb+Zn) Core mod. broken w/ good recovery BXA along fractures at small angle to core axis — at EOI angle is 20/180 wrt S2. At TOI fracture orientations 00 wrt core axis Core mod. broken w/ good recovery
	131714 7	131819 5		1211	4 A 13101	$ MINOR (4C35 $ MINOR) 90:10 POROUS
		118 7				Hard, CS2-foliated, medium dark grey, noncalcareous, pyritic qtzite. Thinly banded w/ thin carbonaceous folia/streaks between pale grey qtz-pyrite ribbons. Qtz-pyrite ribbons define S1 folia Also contains diffuse pyrite-rich compositional bands up to 5 cm thick subparallel S2. Bands contain abundant fine disseminated pyrite in pale grey qtz matrix. Locally very minor thin dolomitic qtz-pyrite bands also present S2 surfaces are dark shiny to sooty grey.
						For some intervals have gradations to a pale grey pyritic qtzite Carbonaceous folia are "bleached" to pale silvery grey muscovite folia. Otherwise Textures and descriptions remains identical S2 surfaces are pale silvery grey

DDH 89G-19

CURRAGH RESOURCES INC.

Lithologic Log

Date: Aug 31/89 Logged By: LCP

Code	From	To	Recov.	No.	Unit	Description
1	10 14	16 20	22 24	26 28	30 34	35
		13819 5		1211		Unit slightly porous along late fractures xcutting and offsetting S2 surfaces. Two sets of fractures w/ orientations 45/180 and 00/000 wrt S2. Some remobilization of pyrite into these fractures. Locally have minor incipient bxa texture along these fractures. TOI-384 mod. brken w/ good recovery // 384-EOI very brken to locally rubbly w/ good recovery. Lower contact hidden in rubble. Estimated grade 0% (Pb+Zn) Pyrite content 35% - 45%
	13819 5	14016 5 123 9		1212	4E1$19	±648 (4L62$) 90:10 BXA POROUS Overall bxa texture w/ subangular sulphide clasts in a pale green, fine-grained, 4L matrix. S2 compositional banding in S= clasts are randomly oriented. Sulphides consist of brassy yellow to grey-yellow, thinly banded pyrite. Contains dolomite disseminated in matrix and large dolomite clasts up to 2cm across. Magnetite occurs as thin discontinuous streaks parallel S2. Some intervals contain barite streaks w/ honey coloured sphalerite. Pyrite porous w/ thin bands parallel S2 weathering recessively. 4L consists of soft, PS2-foliated, slightly dolomitic, pale green muscovite phyllite. Slightly pyritic w/ fine pyrite streaks, locally associated w/ reddish sphalerite. Commonly forms fine-grained matrix for sulphide clasts in bxa texture. Cpy infills late fractures in 4L and 4E. Bxa along fractures w/ orientations 00 and 15 wrt core axis. Unit mod. brken w/ good recovery. In 4E estimated grade ranges 2-10% (Pb+Zn) Overall estimate 7% Pyrite content 70-95% depending on amt of dolomite, magnetite, barite. Lower contact marked by change in proportion of lithologies.

DDH 89G-19
2 8

CURRAGH RESOURCES INC.
Lithologic Log

Date: Aug 31/89 Logged By: LCP

Code	From	To	Recov.	No.	Unit	Description
1	10 14	16 20	22 24	26 28	30 34	35
	14016 5	14210 0 128 0		213	4K8191	±4 (4L62 $) MINOR ± BXA ± POROUS Very dolomitic pyritic sulphides. Compositional banding parallel S2 defined by thin discontinuous magnetite streaks and by variations in matrix dolomite. Also contains abundant pegmatitic pale grey dolomite veins up to 5 cm across. Veins are extensively bxiated to make subangular clasts. Dolomite weathers orange brown. Estimated pyrite content about 65-70%. Estimated grade 2-4% (Pb+Zn). Contains thin pale green muscovite-dolomite phyllite compositional bands. S2 surfaces are pale silvery green. Phyllite contains minor pyrite streaks and bands, locally w/ minor sphalerite. Unit again has local bxa texture w/ S= fragments & clasts along late steep fractures. Locally slightly porous along the fractures. One fracture gives indication of offset of about 0.8 feet. Core slightly to mod. brken. Recovery good. Brken on late steep fractures
	14210 0	14216 7 130 1		214	4E1$1	±4 (4L6 $ 24) 95:05 ± BXA Similar to previous unit only not as much dolomite. Vaguely banded, dolomitic, pyritic sulphides. Banding defined by dolomite content and by thin sphalerite-rich intervals. Banding assumed parallel S2. Contains thin interbands of dolomitic, pale silvery green, PS2-foliated, soft phyllite. S2 surfaces are pale silvery cream. Bands range up to 3 cm thick. Bxa texture on steep fractures. Subangular to angular S= clasts in sulphide matrix. Coherent fault rock. Locally matrix is medium green micaceous chlorite (?) mud gouge. Core mod. brken w/ good recovery. Locally slightly porous on fractures. Fractures range from 0-25° wrt core axis. Pyrite content 85-90%. Estimated grade 3-5% (Pb+Zn) overall.

DDH 89G-119
2 8

CURRAGH RESOURCES INC.
Lithologic Log

Date: Aug 31/89 Logged By: LCP

Code	From	To	Recov.	No.	Unit	Description
1	10 14	16 20	22 24	26 28	30 34	35
	141216 7	141311 0		1215	41E1$1	±4 ±6 ±POROUS (4L6) BXA GOUGE 95:05
		131 4				Similar to last unit only more strongly brxiated and gouged. Pyritic sulphides are porous in these compositional bands parallel S2. Locally 5% bxa clasts have pale tan dolomitic matrix. Also 5% matrix to clasts and locally a pale green chloritic mud gouge matrix. 5% locally baritic w/ boxy coloured sphalerite. Pyrite content 90-95%. Estimated grade overall 4-6% (Pb+Zn).
						Core very brken & rubbly w/ intervals of mud gouge. Gouges have angles ranging from 0° to 45° wrt core axis. Recovery seems OK
	141311 0	141412 0		1216	41A13101$	9 MINOR (4C30 & 9 MINOR) MINOR RUBBLE
		134 7				Very brken & rubbly along steep fractures. Only minor gouge present. CS2-foliated, hard, medium dark grey pyritic qtzite. S2 surfaces are dark steely grey. Ribbon banded w/ non-pyritic dark grey, fine qtzite alternating w/ coarser pale grey, locally slightly dolomitic qtzite containing disseminated pyrite. S2 surfaces defined by carbonaceous folia. Locally qtzite is uniformly bleached to a pale grey. Pyrite content 30-45%. Estimated grade about 0% (Pb+Zn)
						Marks end of major fault & bxa zone 366'-442'. Bxa texture appears to get progressively more pervasive. Recovery good for entire bxa & fault intervals. Minor cpy in cutting fractures
	141412 6	141418 7		1217	5TB1$1	
		136 8				Moderately soft, PS2-foliated, pale grey, thinly banded, dolomitic phyllite. S2 surfaces are silvery green. Contains thin dolomite-qtz-siltstone bands parallel S2. Dolomite weathers to orange-tan. Also numerous, irregular veinlets of dolomite ± qtz ± chlorite ± pyrite. These break compositional banding and locally produce a "nesting" texture. Core mod. brken w/ good recovery - 10cm of fine rubble @ top of interval.

DDH 89G-19
2 8

CURRAGH RESOURCES INC.
Lithologic Log

Date: Aug 31/89 Logged By: LCP

Code	From	To	Recov.	No.	Unit	Description
1	10 14	16 20	22 24	26 28	30 34	35
	141418 7	141717 3 145 5		1218	151B101	BIO CALC-SILICATE → (5B02 CALC-SILICATE BIO)(5D$) 70:30: TRACE Moderately soft, CS2-foliated, calcareous, pale grey phyllite. Locally PS2-foliated. Calcite occurs w/ qtz in thin siltstone bands. S2 surfaces are pale silvery grey. Cut surface has slight greenish tinge when moist locally cut surface has grayish tinge due to disseminated biotite. Green most noticeable as disseminated grains in siltstone bands — possibly actinolite (?) As go down DDH have gradational change to medium dark grey phyllite. S2 surfaces are dark steely grey. Unit becomes more strongly CS2-foliated w/ S1 microlithons being delineated by pale grey green siltstone bands. Still see disseminated green mineral in siltstones. Lowermost 10 cm is soft, PS2-foliated, slightly dolomitic, pale olive chloritic phyllite. S2 surfaces are pale silvery green. There is only 5D in interval. Dolomite occurs in thin veinlets parallel S2. TOI-461 core mod. to very broken w/ minor incipient gouge & rubble. Calcite infills x-cutting steep fractures. Recovery OK 461-EOI slightly broken to mod. broken. Recovery OK
	141717 3	141811 3 146 7		1219	41L/1214	9 → (4E109) 90:10 [4C389 "PHYLLITIC"] Hard, PS2-foliated, pale grey to creamy white, noncalcareous qtzite. Abundant thin silvery muscovite laminae. S2 surfaces are muscovitic, silvery cream and very planar. Contains thin qtz-pyrite + sphalerite bands parallel S2. Bands range from 2-3mm to 2cm in thickness. Number of bands and thickness of bands increases as go down DDH until have a siliceous pyrite for last ½ foot. As pyrite increases begin to see minor blebs and streaks of magnetite. Also see splashes of cpy in x-cutting fractures. Transitional rock — either a siliceous 4L or a muscovitic 4C. Pyrite content increases from 5% to 80% as go down DDH. Grade 3% (Pb+Zn). Slightly broken-recovery OK

DDH 89G-119
2 8

CURRAGH RESOURCES INC.
Lithologic Log

Date: Aug 31/89 Logged By: LCP

Code	From	To	Recov.	No.	Unit	Description
1	10 14	16 20	22 24	26 28	30 34	35
	14811 3	14814 4 147 6		1310	4L2141	± 6 ± 1 ± 4 ± 8 [4L24 ± 6 (4C3 4 8) 40:60] Again an interbanding of rock types on 10-20 cm scale which is difficult to classify. 4L consists mainly of noncalcareous, moderately soft, PS2-foliated, muscovite-qtz phyllite. Contains thin qtz-pyrite ± sphalerite bands (1-3mm thick) parallel S1=S2. S2 surfaces are pale silvery cream. Locally the unit is medium green from abundant chlorite. This suggests that muscovitic 4L may be an altered metabasite. Interbanded w/ 4L is thinly banded, dolomitic, pyritic qtzite. Moderately hard to hard. Thinly banded w/ more pyritic bands. Also contains thin magnetite sheaks parallel S2. PS2 compositionally banded. Banding on scale of 1cm or so. Overall pyrite content 5% (4L) to 25% (4C). Estimated grade 2% (Pb+Zn). Core slightly broken w/ good recovery. Upper & lower contacts conformable. Lowest contact lost in rubble
	14814 4	14816 2 148 2		1311	4G1418	4 MINOR Moderately hard, thinly banded, pale yellow grey, slightly dolomitic, basitic sulphides. Magnetite forms tiny specks and blebs. Minor dolomite in matrix. Banding parallel S2 on a scale of a few mm based on pyrite content. Contains honey coloured sphalerite. Pyrite content increases down DDH. Pyrite content 50-65%. Estimated grade 12% (Pb+Zn) — this being mainly Zn. Core intact. Uppermost portions of interval rubbly because porous. Recovery good.
	14816 2	14914 2 150 6		1312	41A0191	(4C09 ± 5) 60:40 Hard, PS2-foliated, pale to medium grey, noncalcareous, pyritic qtzite. Uniformly a grey qtzite w/ thin carbonaceous folia defining S2. S2 surfaces are dark steely grey and only moderately mark the fingers. Ribbon banding not present because unit lacks the fine dark grey siliceous bands (basaltic background material). Pyrite

DDH 89G-19 (2 8)

CURRAGH RESOURCES INC.

Lithologic Log

Date: ~~Sept 1/89~~ Logged By: KCP

Code	From	To	Recov.	No.	Unit	Description
1	10 14	16 20	22 24	26 28	30 34	35
						disseminated as fine grains throughout strata. Pyrite also concentrated as thin bands parallel SZ. Locally pyrite forms more coarsely xlline, irregular, fracture filling aggregates.
						Locally dark grey carbonaceous foliae fade to pale grey and then to silvery muscovitic foliae "Bleached" intervals up to 20-30 cm thick.
						Qtz veins as sphaleritic aggregates infilling late cross cutting fractures. Pyrite content 25%. Estimated grade 1-2% (Pb+Zn)
						Core mod. broken w/ good recovery. Interval 392-393 very broken w/ good recovery
14914	2	14960		1313	14E1110	
		151	2			
						Hard, brassy yellow, fine grained pyrite. Contains small irregular interstitial white quartz aggregates randomly distributed through interval. Qtz aggregates range up to 1cm across. Pyrite content 95%. Estimated grade 0% (Pb+Zn). Upper and lower contacts are conformable parallel SZ. Core intact w/ good recovery
14916	0	14919	1	1314	41G1$1819	±1 ± "PHYLLITIC" (4E4$ porous) 90:10 [4K B9]
		152	1			Top 0.7 feet consists of slightly porous, PSZ-foliated, thinly banded, moderately dolomitic, reddish brown pyritic sulphides. Reddish brown colour from abundant sphalerite. Banding as thin color variations parallel SZ related to amt of sphalerite present. Pyrite content 80%. Estimated grade 15-20% (Pb+Zn). Locally has microbuckshot texture w/ pyrite in sphalerite-rich matrix.
						Rest of interval is reddish-yellowish-grey, dolomitic, thinly banded, basitic (?), pyritic sulphides. Banding defined mainly by mm scale bands of pyrite, sphalerite, magnetite. Pale grey dolomite disseminated in matrix and as larger (1cm) clasts. Ductile flow textures around the clasts. Unit also contains clasts of white muscovite-qtz phyllite. These tend

DDH 89G-19
2 8

CURRAGH RESOURCES INC.
Lithologic Log

Date: Sept 1/89 Logged By: LCP

Code	From	To	Recov.	No.	Unit	Description
1	10 14	16 20	22 24	26 28	30 34	35
						to form thin "broken" discontinuous bands parallel S2. Pyrite content 50-60%
						Estimated grade 9-10% (Pb+Zn) Sphalerite is light reddish brown. Cpy
						is splashy aggregates infilling late xcutting fractures. Core intact w/ excellent
						recovery
						May not contain barite. If not matrix interstitial grey is dominantly dolomite
						Not typical 4K but would have to be pigeon-holed somewhere
	4919 1	5016 4		3 5	4E118$	9 (4L249) MINOR
		154 4				Another fence-sitting sulphide intersection thinly banded, PS2-foliated, pyritic
						sulphides w/ bands, clasts, lenses of pale grey dolomite and pale grey,
						slightly muscovitic qtzite. Magnetite occurs as thin beaded streaks and bands
						parallel S2. Qtzite bands tend to be broken up into rectangular clasts,
						filter in clasts is at an angle to external sulphide foliation. Sulphide also
						have thin bands of muscovite-rich phyllite. S2 surfaces are silvery cream
						to silvery grey locally contains some thin medium green chloritic bands parallel
						S2. Cpy as splashy aggregates infilling late xcutting fractures
						At 503 feet have 0.4 feet of moderately soft, PS2-foliated, pale cream muscovite
						phyllite. S2 surfaces are silvery w/ faint greenish tinge. Contains thin qtz-pyrite ±
						sphalerite veins subparallel S2. Splashy cpy infilling late fractures.
						Pyrite content for 4E 65-75% Estimated grade at most 2% (Pb+Zn)
						Core intact w/ good recovery locally dolomite clasts are porous. Lower contact irregular
						against phyllite but crudely parallel S2.
	5016 4	5112 4		3 6	5A$	±1 ±9
		156 2				Moderately hard to moderately soft, PS2-foliated, black, slightly dolomitic phyllite.
						S2 surfaces are shiny dark grey to black and slightly mark fingers. Moderately soft

DDH 89-6-19
2 8

CURRAGH RESOURCES INC.
Lithologic Log

Date: Sept 1/89 Logged By: LCP

Code	From	To	Recov.	No.	Unit	Description
1	10 14	16 20	22 24	26 28	30 34	35
						phyllite has flat black cut surface colour, Moderately hard to hard phyllite has blueish grey cut surface colour. Dolomite occurs as thin siltstone S1 beds forming microlithons w/ S2. Phyllite also contains minor thin qtz veinlets w/ disseminated pyrite
						Core mod. broken & moderately poker choppy. Recovery has been good.
	151124	151212 5 159 3		1317	41K141819	(HL421) BXA 80:20
						Thinly banded, dolomitic, pyritic sulphides. Magnetite occurs as tiny blebs and streaks. Banding based on sphalerite content, matrix dolomite content. Also contains large dolomite clasts.
						Contains interbanded intervals of moderately hard, PS2-foliated, pale grey, noncalcareous massive-qtz phyllite. S2 surfaces are silvery cream. Contains thin streaks and stringers w/ pyrite and sphalerite
						Pyritic sulphides contain numerous clasts of soft phyllite 4K, dark grey carbonaceous SA, massive dolomite, and hard, PS2-foliated 4CO. S2 foliations in clasts appear to be randomly oriented. Fractures in clasts are infilled by sphalerite epy. Has overall texture/appearance of injectionite breccia of sulphides which has entrained and carried pieces of other material
						Pyrite content 70% Estimated grade 9-10% (Pb+Zn). Core intact w/ excellent recovery. Upper and lower contacts are irregular and xcut S2.
	151212 5	151315 8 163 3		1318	51B121$1	
						Moderately soft, PS2-foliated, slightly dolomitic, dark grey phyllite. S2 surfaces are dark steely grey. Dolomite occurs in 1-5cm thick siltstone bands in association w/ qtz. Irreg. bas pyrrhotite and pyrite porphyroblasts. Locally contains a few thin bands of pyrite-sphalerite-galena parallel S2.

DDH 89G-19
2 8

CURRAGH RESOURCES INC.
Lithologic Log

Date: Sept 1/89 Logged By: LCP

Code	From	To	Recov.	No.	Unit	Description
1	10 14	16 20	22 24	26 28	30 34	35
						Lighter coloured & more wavy colour banding than 5A at top of DDH. Most like phyllite immediately above the upper ore horizon. Core slightly broken w/ good recovery.
	151315 8	151316 8 163 6		1319	5A191614	
						Base unit is dark grey to black, PS2-foliated, noncalcareous phyllite. Contains extensive pyrite + sphalerite in vein filling of fractures. Flooding by sulphides with clasts of phyllite floating in the sulphides. Locally the phyllite clasts have been "bleached" to a pale silvery grey muscovite phyllite. Still soft and noncalcareous. Total sulphides 50-60% Pyrite & sphalerite. Estimated grade 15% (Pb+Zn). Cpy forms splashy infillings in late cutting fractures. Core mod. broken w/ excellent recovery.
	151316 8	151515 7 169 4		1410	5B16121	(5D46) MINOR Moderately soft, PS2-foliated, dark grey, noncalcareous phyllite. S2 surfaces are dark steely grey. Contains discontinuous colour striping in shades of grey parallel S2 - based on carbon content. Also contains very minor units of grease siltstone intervals. Minor sphalerite-rich sulphides in S2-parallel veinlets. Minor thin pale olive to silvery cream, PS2-foliated, homogeneous, chlorite-muscovite phyllite. S2 surfaces are silvery to pale silvery green. One interval has brownish biotite tinge. TOI-547 mod. broken w/ good recovery // 547-549.3 very broken w/ local rubble - good recovery // 549.3-549.8 mud gouge - grey w/ clasts of 5D4. good recovery // 549.8-EOI very poken chippy and rubbly w/ good recovery.

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CURRAGH RESOURCES INC.

Lithologic Log

Date: Sept 1/89 Logged By: LCP

Code	From	To	Recov.	No.	Unit	Description
	151515 7	151519 5		1411	51A161	±19 (4E1$4) 30:70
		170 5				Most of interval consists of thinly banded, dolomitic, siliceous, pyritic sulphides. Sulphides contain clasts of dark grey phyllite, and minor grey dolomite. Matrix contains fine interstitial dolomite and quartz. Banding defined by variations in sphalerite and pyrite content. Pyrite content 80%. Estimated grade 7% (Pb+Zn).
						Interbands are black, soft, PS2-foliated, noncalcareous phyllite. S2 surfaces are shiny black locally has siliceous matrix. locally also has white qtz-pyrite veinlets.
						Possibly large sulphides veins (?) Doesn't really look like concretions.
						Core very broken. Bottom 0.7 feet is black mud gouge. Recovery looks reasonable.
	151519 5	151613 4		1412	41L1012	(4E0$) 60:40
		171 7				Centre of unit consists of soft, noncalcareous, PS2-foliated, off-white muscovite phyllite. S2 surfaces are silvery cream/white. Contains thin streaks of pyrite-qtz parallel S2.
						Margins at top and bottom are moderately hard, brassy yellow, slightly dolomitic, fine grained pyritic sulphides. Dolomite generally disseminated in matrix. Contains minor scattered qtz clasts. Minor thin bands containing reddish brown sphalerite. Marginal contacts are sharp. Pyrite content 90-95%. Estimated grade 1-2% (Pb+Zn).
						Core very broken & rubbly w/ 41 unit being gouged - probably partly lithology-related. Possibly very minor core loss in this gouge area.
	151613 4	151812 4		1413	51A1$1	[5B2$]
		177 5				Soft, dark grey to black, PS2-foliated, slightly dolomitic phyllite. S2 surfaces are steely grey to shiny black and only slightly mark the fingers. Contains minor thin pale grey greasy siltstone bands which locally have tan-weathering

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2 8

CURRAGH RESOURCES INC.
Lithologic Log

Date: Sept 2/89 Logged By: LCP

Code	From	To	Recov.	No.	Unit	Description
1	10 14	16 20	22 24	26 28	30 34	35
		5812 4		413		dolomite. Thinly to thickly banded in shades of grey. Bands are slightly irregular - do not have totally planar contacts on cut surface. Locally has minor avoid black "cherty" nodules. Minor thin pyrite-qtz veinlets are subparallel S2 and infilling late fractures.
						TOT - 576.5 Core very broken, rubbly, poker chippy w/ incipient gouges locally. Recovery OK // 576.5 - EOI Mod. broken & mod. poker chippy w/ minor incipient gouge. Recovery OK.
	5812 4	5818 7		414	5B612	
		179 4				Soft, dark grey, PS2-foliated, noncalcareous phyllite. S2 surfaces are silvery grey to steely grey. Contains 3-5 cm thick pale grey qtzose siltstone bands with marginal contacts parallel S1. Irregular xcutting qtz-dolomite veinlets. Dolomite in veinlets weathers tan-brown. Wavy, irregular compositional striping in shades of grey related to carbon content.
						Core mod. broken w/ good recovery
	5818 7	6015 0		415	5A61	I$ I/ (5D4$) TRACE
		184 4				Moderately soft to soft, PS2-foliated, noncalcareous, dark grey to black phyllite. S2 surfaces are steely grey to shiny dark grey. Overall S2 is smooth and planar. Minor qtz veinlets parallel S2 have beaded texture w/ small lenses elongate in S2. Contains local intervals where phyllite is moderately hard = siliceous. Generally these are less than 10 cm thick - cut surface has a bluish/whitish grey aspect to it. Contains thin, discontinuous pyrite streaks parallel S2. Locally minor thin qtzose siltstones w/ minor associated dolomite - most siltstones are thin and consist entirely of qtz.
						At 596 feet have 10 cm interval of pale olive, soft, slightly dolomitic muscovite-chlorite phyllite. S2 surfaces are pale greenish silver. PS2-foliated. Consists of slightly to

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CURRAGH RESOURCES INC.
Lithologic Log

Date: Sept 2/89 Logged By: LCP

Code	From	To	Recov.	No.	Unit	Description
1	10 14	16 20	22 24	26 28	30 34	35
		6015		45		moderately altered 5D metabasite. Marginal contacts are sharp, parallel S2 = S1.
						TOI-591 core very brken & very poker chippy locally rubbly. Recovery OK //
						591-598 core mod. brken & mod. poker chippy - recovery OK // 598-EOI core very
						brken, mod. to very poker chippy - recovery OK.
	6015 0	6220		46	5B62	
		1896				
						Medium dark grey, soft, PS2-foliated, noncalcareous phyllite. S2 surfaces are
						silvery grey. Irregular banding in shades of grey parallel S2. Banding generally
						on a scale of mm up to 2 cm. Interval has locally developed incipient bxa
						texture w/ numerous late xcutting fractures. Definitely softer, and lighter grey than
						intervals immediately above and below.
						TOI-610 Very brken & rubbly w/ gouges - recovery OK // 610-EOI. Mod. to very brken.
						Abundant fine xcutting fractures. locally giving bxa texture. Some minor gouges. Recovery OK.
	6220	7510		47	5A61	± 9 MINOR
		2289				
						Noncalcareous, hard, dark grey, PS2-foliated phyllite. S2 surfaces are flat black to shiny
						black and slightly to moderately mark the fingers. Cut surface is dark bluish grey - more
						siliceous intervals have more noticeable bluish grey aspect. Contains elongate black
						"cherty" nodules elongate within S2 foliation. Thinly to thickly banded in shades of
						grey locally contains minor pyrite associated w/ white qtz veinlets. This unit
						corresponds to the 5A unit at the top of this DDH.
						TOI-652 Mod brken w/ good recovery. 15 cm mud gouge @ TOI - margins
						parallel S2 // 652-656 very brken & rubbly w/ gouge - recovery OK gouge related to
						fractures 40° wrt core axis // 656-664.5 mod brken w/ good recovery // 664.5-670
						mod. poker chippy - mod brken w/ local rubbly intervals. only minor gouge - recovery OK //
						670-700.8 slightly brken w/ good recovery // 700.8-704 very rubbly, mud gouge and

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2 8

CURRAGH RESOURCES INC.
Lithologic Log

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Date: Sept 2/89 Logged By: LCP

Code	From	To	Recov.	No.	Unit	Description
1	10 14	16 20	22 24	26 28	30 34	35
						some coherent fault rock. Associated w/ fractures 55° wrt core axis. Recovery good //
						704-733 slightly brken w/ good recovery // 733-EOI mod. brken w/ local rubble
						and mud gouge. locally mod. to very poker chippy. Recovery OK. gouges @
						733-734.5, 737-737.5, 748.5-749. For entire interval no major/significant
						faults.
	7151 0	7157 0		418	5B612	
		230 7				Soft, dark grey, PS2-foliated, noncalcareous phyllite. S2 surfaces are silvery grey
						Irregular, discontinuous colour banding on scale up to 1-3cm in shades of
						light and dark grey. Colour banding crudely parallel S2. Softer and lighter
						grey than previous unit. Also contains no qtz-pyrite veinlets.
						Core mod. brken & slightly poker chippy. Recovery good.
						EOH

DDH 89-6-19 (2 8)

CURRAGH RESOURCES INC.
Structural Log

Date: August 18/89 Logged By: A. Reznik

Code	From	To (meters)	Feature	Sym	S_0 Dip Direct.	S_1 Dip Direct.	S_2 Dip Direct	Description
	10 14	16 20	22 24	26	28 32	34 38	40 44	
		1115	AS12	-		T T	511	S_2 defn'd by comp. banding.
		1201	CIS12	S		418 01010	515	micaceous fltns present.
		1311	PIS12	-		T T	315	S_2 defn'd by thin micaceous fltns.
		1416	AS12	-		T T	611	S_2 defn'd by thin micaceous fltns & comp. banding.
		1418	CIS12	M		317 21015	717	" " " "
		1607	CIS12	S		010 01010	716	micaceous fltns present.
		1618	PIS12				615	S_2 defn'd by thin luminatns & comp banding. PS2
		1695	CIS13	-	117 01010		519	thin micaceous fltns present.
		1802	CIS12	S		413 01210	72	" " " "
		1841	CIS12	S		415 31315	615	" " " "
		1866	AS12	-		T T	615	" " " "
		1951	AS12	-		T T	69	" " " "
		1012	AS12	-		T T	518	S_2 defn'd by Py banding.
		1017	CIS12	M		114 01110	82	" " " " "
		1096	CIS12	S		412 01288	818	" " " " "
		1164	AS12	-		T T	513	comp banding present.
		1244	AS12	-		T T	714	S_2 defn'd by Py banding.
		1253	AS12	-		T T	611	" " " " "
		1314	PIS12				815	micaceous foliation
		feet						
		14514	AS12	-		T T	811	micaceous fltns present
		14616	CIS12	S		416 01391	713	" " "
		14913	PIS12	-		T T	819	S_2 defn'd by Py & compositional banding
		15111	AS12	-		T T	611	S_2 defined by thin micaceous laminations
		15311	AS12	-		T T	714	" " "
		15412	AS12	-		T T	615	" " "
		15617	AS12	-		T T	712	" " "
		15914	AS12	-		T T	810	" " "
		16013	AS12	-		T T	811	" " "
		16213	AS12	-		T T	616	" " "
		16416	CIS12	S		317 01114	89	" " "
		16517	AS12	-		T T	712	" " "
		16725	AS12	-		T T	718	" " "
		16914	AS12	-		T T	811	" " "
		17117	CIS12	S		416 01110	711	" " "
		17216	PIS12	-		T T	711	" " "
		7555	PS2	-		— —	81	" " "

— EOH —

DDH 89G-119 (2 8) CURRAGH RESOURCES INC. Page 1 of 2

FEET Logged by LCP

ASSAY LOG (SAMPLER'S COPY) Date Sept 2/89 Sampled by

CODE	FROM	TO	SAMPLE	INTR.	REC (m)	UNIT	DESCRIPTION
1	10 CA	16 96.4 40	22 26	28 30	32 34	36 WASTE 40	42
	1311.6 2	1312.1 0	3170119	14 8	1.5 14 8	4 L 1 6 2 1 4	
	1312.1 0	1312.5 3	3170210	14 7	1.4 14 7	4 L 1 6 2 1 4	
	1312.5 7	1312.8 0	1 1 211	13 3	0.8 12 6	4 E 1 4 6 1 $	89
	1312.8 0	1313.0 7	1 1 212	12 7	0.8 12 7	4 L 1 6 2 1 $	
	1313.6 7	1313.9 2 6	1 1 213	15 4	1.5 15 4	4 E 1 $ 1 8 1	
	1313.6 1	1314.1 3 0	1 1 214	15 2	1.5 15 2	4 E 1 $ 1 8 1	
	1314.1 3	1314.4 9 0	3170215	13 7	0.9 12 8	4 A 1 0 1 $ 1	
	1314.4 0	1314.8 6 4	1 1 216	14 4	1.3 13 4	4 C 1 3 1 9 1	
	1314.8 4	1315.1 3 9	1 1 217	15 5	1.7 15 5	4 C 1 3 1 9 1	
	1315.1 3 9	1315.9 7 6 7	1 1 218	15 8	1.8 15 8	4 C 1 3 1 9 1	
	1315.9 7	1316.1 0.2 5	1 1 219	11 8	0.5 11 8	4 A 1 0 1 9 1	
	1316.1 5	1316.5 5 9	3170310	15 4	1.5 15 4	4 E 1 $ 1 8 1 0	
	1316.5 9	1316.9 2.6 4	1 1 311	13 5	1.1 13 5	4 E 1 0 1 $ 1	BXA
	1316.9 4	1317.4 5.2 7	1 1 312	15 3	1.5 15 3	4 A 1 0 1 1	BXA
	1317.4 7	1318.0 5.8 0	1 1 313	15 3	1.5 15 3	4 A 1 3 1 0 1	
	1318.0 0	1318.4 7.2 5	1 1 314	14 5	1.4 14 5	4 A 1 3 1 0 1	
	1318.4 5	1318.9 8.7 5	3170315	15 0	1.5 15 0	4 A 1 3 1 0 1	
	1318.9 5	1319.4 0.2 2	1 1 316	14 7	1.4 14 7	4 E 1 $ 1 9 1	
	1319.4 2	1319.8 1.4 3	1 1 317	14 1	1.4 14 1	4 E 1 $ 1 9 1	
	1319.8 3	1410.2 2.7 5	1 1 318	14 2	1.4 14 2	4 E 1 $ 1 9 1	
	1410.2 5	1410.6 3.9 5	1 1 319	14 0	1.4 14 0	4 E 1 $ 1 9 1	
	1410.6 5	1411.1 5.3 0	3170410	14 5	1.4 14 5	4 K 1 8 9 1	
	1411.1 0	1411.6 6.9 2	1 1 411	15 2	1.6 15 2	4 K 1 8 1 9 1	
	1411.6 2	1412.0 8.0 0	1 1 412	13 8	1.3 13 8	4 K 1 8 1 9 1	
	1412.0 0	1412.3 8.9 0	1 1 413	13 0	0.9 13 0	4 E 1 $ 1 1	
	1412.3 0	1412.6 9.7 7	1 1 414	13 7	1.3 13 8	4 E 1 $ 1 1	
	1412.6 7	1413.1 0.4 0	3170415	14 3	1.3 14 3	4 E 1 $ 1 1	
	1413.1 0	1413.4 2.4 3	1 1 416	13 3	0.9 13 3	4 A 1 3 1 0 1 $	
	1413.4 3	1413.8 3.1 5	1 1 417	14 2	1.3 14 2	4 A 1 3 1 0 1 $	
	1413.8 5	1414.2 3.6 6	1 1 415	13 5	1.0 13 4	4 A 1 3 1 0 1 $	
	1 1 3 4 7	1 1 4 5 5	— 0 —	—	—	WASTE	
	1417.3 5	1418.1 4.6 3	1 1 419	14 0	1.2 14 0	4 E 1 L 1 1	
	1418.1 3	1418.4 4.7 6 4	3170510	13 1	0.9 13 1	4 L 1 2 1 4 1	
	1418.4 4	1418.6 4.3 2 2	1 1 511	11 8	0.5 11 8	4 G 1 4 1 8 1 $	
	1418.6 2	1419.0 4.9 2 4	1 1 512	13 0	0.9 13 0	4 A 1 C 1 9 1	
	1419.0 2	1419.4 5.2 6 2	3170513	14 0	1.2 14 0	4 A 1 C 1 0 1 9	

DDH 89G-19 (2–8)

CURRAGH RESOURCES INC.

Page 2 of 2

Logged by LCP

ASSAY LOG (SAMPLER'S COPY)

Date Sept 2/89 Sampled by

CODE	FROM (10–14)	TO (16–20)	SAMPLE (22–26)	INTR. (28–30)	REC (m) (32–34)	UNIT (36–40)	DESCRIPTION (42)
	1494 2	1496 8 (151.2)	37054	18	1.8 (0.5)	4E101	
	1496 0	1499 1 (152.1)	37055	31	3.1 (0.9)	4EG$	
	1499 1	1502 8 (153.3)	37056	37	3.7 (1.1)	4E18$	
	1502 8	1506 4 (154.4)	37057	36	3.6 (1.1)	4EL18$	
	1544	1556 2	— o —	—	—	WASTE	
	1512 4 (156.2)	1516 7 (157.5)	37058	43	4.3 (1.3)	4K489	L
	1516 7	1522 5 (159.3)	37059	58	5.8 (1.8)	4K489	L
	1593	1633	— o —	—	—	WASTE	
	1535 8 (163.3)	1536 8 (163.6)	37060	10	1.0 (0.3)	5A964	L
	1636	1694	— o —	—	—	WASTE	
	1557 7 (169.4)	1559 5 (170.5)	37061	38	3.8 (1.2)	4E1$4	
	1559 5	1563 4 (171.7)	37062	39	3.9 (1.2)	4EL$	
	1717	2307	— o —	—	—	WASTE	

PROJECT _____ DRILLHOLE NO. DH 86-19 COORDINATES: N _____ DATE _____ 19__

LOCATION _____ HOLE SIZE _____ E _____ PAGE 1 of 1

LOGGER _____ INCLINATION _____ ELEVATION _____

PITEAU & ASSOCIATES
GEOTECHNICAL CONSULTANTS
VANCOUVER CALGARY

GEOTECHNICAL CORE LOG

DEPTH (TO)	LENGTH OF RUN	CORE RECOVERY		RQD		HARDNESS	DEGREE OF BREAKAGE		DEGREE OF WEATHERING	ROCK TYPE	BEDDING DIP		BEDDING JOINTS		CROSS JOINTS		m depth	COMMENTS	m length of run
		LENGTH	length m	LENGTH	length m		CATEGORY	NO.			DEPTH	ANGLE	NO.	FREQ.	NO.	FREQ.			
37	37	0.6	.2	0	0		6		D						0		11.3		11.3
43	6	4.7	1.4	0.85	.3		6		F						3		13.1		1.8
48	5	4.5	1.4	0	0		6		E						2		14.6		1.5
54	11	3.6	1.1	0	0		6		F						2		17.9		3.3
62.5	2.5	1.2	.4	0	0		6		E						1		19.1		1.1
68	5.5	3.[illegible]	1.1	1.2	.4		7		F						1		20.7		1.7
[illegible]	[illegible]	1.4	.4	0	0		6		E						1		21.3		.6
73.5	3.5	2.7	.8	0	0		6		E						2		22.4		1.1
84	[illegible]	1.9	.6	0.8	.2		6		E						1		25.6		3.2
88	4	1.6	.5	0	0		2		?						0		26.8		1.2
95	7	2.3	.7	0	0		6		F						1		28.9		2.1
98	3	1.0	.3	0	0		6		F						1		30.0		.9
103	5	1.5	.4	0	0		6		F						0		31.4		1.5
108	5	[illegible]	.9	0	0		6		E						2		32.9		1.5
111	3	1.4	.4	0	0		6		E						2		33.8		.9
113	2	1.3	.4	0	0		6		E						0		34.4		.6
118.5	5.5	1.[illegible]	.3	0	0		6		E						1		34.9		.5
117	3.5	1.5	.5	0	0		6		E						1		35.7		1.4
126	9	4.5	1.4	0	0		2								0		38.4		2.7
135	9	1.5	.5	0	0		6		E						0		41.1		2.7
141	6	3.3	1.0	0	0		6		E						2		42.9		1.8
145	4	1.3	.4	0	0		6		E						0		44.2		1.2
151	6	6	1.8	0	0		6		E						2		46.		1.8
157	6	5	1.5	0	0		6		F						3		47.9		1.8
167	10	6.9	2.1	3.4	.1		6		E						4		50.9		3.0
173	6	1.5	.6	0	0		5		E						1		52.7		1.8
175.5	2.5	1.3	.4	0	0		6		E						0		53.5		.8
182	6.5	5.6	1.7	0	0		5		E						1		55.5		2.0

Fig. 1. Typical rock mechanics core log.

PROJECT _____ DRILLHOLE NO. DDH 89 6-19 COORDINATES: N _____ DATE _____ 19__

LOCATION _____ HOLE SIZE _____ E _____ PAGE 2 of 4

LOGGER _____ INCLINATION _____ ELEVATION _____

PITEAU & ASSOCIATES
GEOTECHNICAL CONSULTANTS
VANCOUVER CALGARY

GEOTECHNICAL CORE LOG

DEPTH (TO)	LENGTH OF RUN	CORE RECOVERY		RQD		HARDNESS	DEGREE OF BREAKAGE		DEGREE OF WEATHERING	ROCK TYPE	BEDDING DIP		BEDDING JOINTS		CROSS JOINTS		m depth COMMENTS	m length of run
		LENGTH	length m	LENGTH	length m		CATEGORY	NO.			DEPTH	ANGLE	NO.	FREQ.	NO.	FREQ.		
195	7.5	3.1	.9	0	0		5		E						1		57.8	2.3
		5.1	1.6	0	0		7		E						2		59.7	2.0
197		1	.3	0	0		6		E						1		60	.3
		2.4	.7	0	0		6		E						2		61	.9
205	5	4.5	1.4	0	0		6		F						0		62.5	1.5
211	6	6	1.8	0	0		6		E						3		64.3	1.8
214	3	2.3	.7	0	0		6		F						0		65.2	.9
226.5	6.5	6.5	2.0	0	0		7		E						1		67.2	2.0
235.5	9	3.1	.9	0	0		6		E						0		69.	1.8
239	3.5	2.6	.8	0	0		6		E						1		70.1	1.1
2329		2.7	.8		0		5		E						0		71.2	1.1
243			2.0	1.35	.41		7		E						0		73.2	2.0
248	3	3	.9	0.35	.1		7		E						0		74.1	.9
258		8.5	2.6	4	1.2		9		F						0		76.9	3
268	10.5	10.5	3.2	3.7	.3		7		E						0		80.2	3
273	10	9.5	2.9	0	0		7		F						0		83.2	3
279	6	6	1.8	0	0		7		E						0		85	1.8
281	2	1.5	.5	0	0		6		E						0		85.6	.6
291	10	10	3	9.9	.3		7		F						0		88.7	3
301	10	9.5	3	2.1	.6		7		E						3		91.7	3
311	10	10	3	4.4	1.4		9		E						0		94.8	3
317	6	6	1.8	2.3	.6		8		E						0		96.6	1.8
327	10	10	3	6.75	2.1		10		E						1		99.7	3
337	10	10	3	6.35	1.9		10		F						1		102.7	3
347	10	10	3	4.9	1.5		9		E						3		105.8	3
357	10	10	3	5.55	1.7		10		E						2		108.8	3
358	1	0.7	.2	0	0		7		F						0		109.1	.3
369	9	9	2.7	3.1	.9		7		E						5		111.9	2.7

Fig. 1. Typical rock mechanics core log.

PROJECT _____ DRILLHOLE NO. [illegible] COORDINATES: N _____ DATE _____ 19__

LOCATION _____ HOLE SIZE _____ E _____ PAGE 3 of 4

LOGGER _____ INCLINATION _____ ELEVATION _____

PITEAU & ASSOCIATES
GEOTECHNICAL CONSULTANTS
VANCOUVER CALGARY

GEOTECHNICAL CORE LOG

DEPTH (TO)	LENGTH OF RUN	CORE RECOVERY		RQD		HARDNESS	DEGREE OF BREAKAGE		DEGREE OF WEATHERING	ROCK TYPE	BEDDING DIP		BEDDING JOINTS		CROSS JOINTS		depth (m)	COMMENTS	length of run (m)
		LENGTH	length m	LENGTH	length m		CATEGORY	NO.			DEPTH	ANGLE	NO.	FREQ.	NO.	FREQ.			
377	10	[illegible]	3	5.1	2.0		10		E						2		114.9		3
387	10	[illegible]	3	[illegible]	1.4		9		F						2		117.9		3
39[illegible]	[illegible]	[illegible]	1.1	[illegible]	0		6		[illegible]						1		119.2		1.2
40[illegible]	[illegible]	[illegible]	3	3.2	.9		9		[illegible]						2		122.2		3
411	[illegible]	[illegible]	3	[illegible]	.7		8		F						2		125.3		3
421	[illegible]	[illegible]	3	[illegible]	1.5		[illegible]		[illegible]						2		128.3		3
431	[illegible]	[illegible]	3	3.2	.9		7		E						0		131.4		3
435	[illegible]	[illegible]	1.2	[illegible]	0		[illegible]		E						0		132.6		1.2
[illegible]	[illegible]	6.5	2.0	[illegible]	0		6		E						3		134.7		2.1
4515	[illegible]	4.5	3	0.6	.2		[illegible]		E						0		137.6		3
461	[illegible]	[illegible]	3	[illegible]	.6		7		E						1		140.5		3
471	[illegible]	[illegible]	3	[illegible]	1.6		9		F						1		143.6		3
481	[illegible]	[illegible]	3	[illegible]	1.4		9		E						0		146.6		3
491	[illegible]	[illegible]	3	[illegible]	2.1		[illegible]		E						1		149.7		3
501	[illegible]	[illegible]	3	[illegible]	1.7		10		E						1		152.7		3
511	10	[illegible]	3	[illegible]	2.0		10		F						2		155.8		3
521	[illegible]	[illegible]	3	[illegible]	1.8		10		E						2		158.8		3
531	10	[illegible]	3	7.3	2.1		10		F						1		161.8		3
537	6	6	1.8	[illegible]	1.2		10		E						2		163.7		1.8
547	[illegible]	[illegible]	3	[illegible]	1.2		9		E						1		166.7		3
552	[illegible]	[illegible]	1.5	0.5	.2		5		E						3		168.2		1.5
557	[illegible]	[illegible]	1.0	0.5	.2		6		E						0		169.8		1.5
562.5	5.5	5.2	1.6	0.5	.2		6		E						2		171.5		1.7
567	4.5	[illegible]	1.2	0	0		[illegible]		F						0		172.8		1.4
576.5	9.5	3.4	1.0	0.4	.1		6		F						1		175.7		3
586	9.5	[illegible]	3	1.55	.5		6		E						2		178.6		3
595	[illegible]	[illegible]	2.4	1.4	.4		6		F						3		181.4		2.7
599.5	4.5	[illegible]	1.4	0	0		[illegible]		[illegible]						2		182.7		1.4

Fig. 1. Typical rock mechanics core log.

PROJECT _____ DRILLHOLE NO. DDH86-10 COORDINATES: N _____ DATE _____ 19__

LOCATION _____ HOLE SIZE _____ E _____ PAGE 4 of 4

LOGGER _____ INCLINATION _____ ELEVATION _____

PITEAU & ASSOCIATES
GEOTECHNICAL CONSULTANTS
VANCOUVER CALGARY

GEOTECHNICAL CORE LOG

DEPTH (TO)	LENGTH OF RUN	CORE RECOVERY		RQD		HARDNESS	DEGREE OF BREAKAGE		DEGREE OF WEATHERING	ROCK TYPE	BEDDING DIP		BEDDING JOINTS		CROSS JOINTS		depth (m) COMMENTS	length of run (m)
		LENGTH	length (m)	LENGTH	length (m)		CATEGORY	NO.			DEPTH	ANGLE	NO.	FREQ.	NO.	FREQ.		
609	12.5	12.5	2.7	0	0		6		E						1		185.6	3
613	4	3.5	0.9	0.35	.1		6		F						1		186.8	1.2
619	8	6	1.8	0.85	.25		7		F						1		188.7	1.8
629	10	7.5	2.9	2.15	.65		7		F						1		191.7	3
637	8	7	2.4	1.1	.3		6		E						2		194.2	2.4
647	10	10	3	3.75	1.1		7		F						2		197.2	3
656	9	8.5	2.6	1.7	.5		5		E						1		199.9	2.7
664	9	9	2.7	2.2	.7		6		E						3		202.7	2.7
675	11	16	3	1.3	.4		6		E						2		205.9	3
685	10	10	3	5.95	2.1		10		F						0		208.9	3
695	10	10	3	5.65	1.7		10		F						0		211.9	3
706	11	10	3	5.3	1.6		9		E						2		215.2	3
716	10	10	3	5.3	1.6		7		F						3		218.2	3
7265	10.5	10	3	4.75	1.4		7		F						0		221.4	3
737	10.5	10.5	3	3.8	1.2		7		F						1		224.6	3
744	7	7	2.1	0.35	.1		6		E						3		226.8	2.1
749	5	5	1.5	0.35	.1		6		E						0		228.3	1.5
751	2	1.3	.4	0	0		6		F						0		228.9	.6
756	5	5	1.5	2.95	.9		7		F						0		230.4	1.5
757	1	0.5	.2	0	0		6		E						0		228.9	.3

Fig. 1. Typical rock mechanics core log.

89-G-20

CURRAGH RESOURCES INC. Page 1 of ____

DIAMOND DRILL CORE LOG Date: _____

Hole Number: 89G-20

Reference Fabric Orientation Diagram:

Project: 1989 GRUM FILL-IN

Location: _____

Claim: _____

~~UTM~~ Terr.Plane Co-ords.: 6905173.365 N 6,452.62 N

592386.615 E 2,925.02 E

Grid Co-ords: 76W / 10N

Elevation: 1294.693

All symmetry determinations looking

Total Depth: 360 feet _____ with _____ dipping

Inclination: -75° to NE _____ with dip azimuth _____.

Purpose: _____

Reason hole Terminated: _____

Logged by: _____ Date(s) Logged: _____

Drilling Contractor: ARCTIC

Hole Cemented: _____ Steel down Hole: _____

Assay Lab: _____

CORE Size	From	To
NW	0	120 feet
NQ	120	360 feet

Collar Cased and Capped: ____

Certificate No's: _____

Started: July 22/89 Completed: July 23/89

_____

CURRAGH RESOURCES INC.

Diamond Drill Core Log

Date: _____ Logged By: _____

DDH 819G-201

Code	Drillhole	Elevation	Northing	Easting	Units (feet/metres)	R.F.E.	
1	2 8	10 16	17 24	25 32	34 39	41 42	
T	819G-201						

FEET

Code	Drillhole	Depth	Zenith Angle	True Azimuth	Comments
1	2 8	10 14	22 26	28 32	34 56
R	819G-201	100	-75.0	014.0	AT COLLAR
R		1314.0	-76.0	015.0	SPIERING ISUN
R			.	.	
R			.	.	
R			.	.

DDH 89G-20
2 8

CURRAGH RESOURCES INC.
Lithologic Log

Page 03

Date: _____ Logged By: CUR

Code	From	To	Recov.	No.	Unit	Description
1	10 14	16 20	22 24	26 28	30 34	35
	0 0	120 0		1	#	TRICONED - NO RECRY
		36 6				
	120 0	131 7		2	#	10AB TILL BOULDER FRAGMENTS
		40 1				Redrilled, cream-white 10AB Anvil Bath frags. Largest piece
						2" long. Only 0.8' rec'd.
	131 7	139 4		3	5B62	$ weathered
		42 5				Dark grey, mod soft CS2 foliated, phyllite. S2 surfaces
						Dull dark grey. Abundant thin lithons defined by qtz + dol -
						weathered to orange-tan. Rusty orange weathering in patches
						on cut + S2 surface.
						Core v̄ broken along S2 + local fractures.
						TOI - 137.0 v̄ broken 4.5' rec'd
						137.0 → EOI " " 1.8' rec'd
	139 4	145 7		4	10Q9	(5B26 $) 85 15
		44 0				Dominate unit is highly fractured + broken, neg. qtz vein.
						Upper contact bcc'd - massive Po infills fractures in 10cm
						interval centered at 140.3. Bottom contact against
						4A is brecciated.
						Centered at 141.5 is 9" interval of dark grey,
						mod soft, brecciated, dolomitic mod carbonaceous phyllite.
						Same as #3. Lower contact sharp, ∥ to S2.
						TOI - 141.2 rubble 1.8' rec'd.
						141.2 → 142.0 m̄ broken, recry good
						142.0 → 145.0 rubble 0.7' rec'd

DDH 89G-20
2 8

CURRAGH RESOURCES INC.
Lithologic Log

Page 04

Date: _____ Logged By: CUR.

Code	From	To	Recov.	No.	Unit	Description
1	10 14	16 20	22 24	26 28	30 34	35
						145.0 → EOI very broken, 0.9' rec'd.
	1457	1535		5	4A0	±4 minor.
		468				PS2 banded, v̄ hard, black, ribbon banded carbonaceous qtzite.
						Banding defined by py + qtz ∓ sph ranges on scale from 1mm
						to 2 cm thick - defines S2. Locally, v̄ thin (≈ 1mm) sph
						bands define S2. S2 surfaces black + strongly mark fingers.
						Qtz + sulph bands ≈ 25-30% of unit volume. Grade
						ranges from 3 - 8%. Overall grade ≈ 5%, dominately
						Sph.
						TOI - 151.0 v̄ broken, 4.3' rec'd
						151.0 - EOI m̄ broken, 2.4' rec'd.
						- No visible weathering.
	1535	1641		6	5B6$	±19 minor (10Q0) minor
		500				mod⁻ soft → locally hard, PS2 foliated, dolomitic,
						muse phyllite. Contains local minor thin intervals
						defined by qtz + diss⁻ sph. Unit is highly broken +
						fractured - locally bxd. Unit is medium buff-grey.
						S2 surfaces shiny silver-grey. Py locally infills
						thin fractures. Dol⁻ occurs in thin tan-rust
						weathered bands generally < 2 mm thick defining S2.
						TOI → 157.5 v̄ broken 3.2' rec'd.
						157.5 → EOI rubble + gouge only 1.2' rec'd.
						Perhaps significant fault

DDH 89G-20
2 8

CURRAGH RESOURCES INC.
Lithologic Log

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Date: Logged By: CVR

Code	From	To	Recov.	No.	Unit	Description
1	10 14	16 20	22 24	26 28	30 34	35
	164 1	166 1		7	4A 0	Bxa.
		50 6				ū hard, black, 4A bxa. Dominate fracture system is
						steep, generally <15° to core axis. Ribbon banding defined by
						qtz + Py ± minor sph. Bands locally displaced 1-2
						cm along steep fractures. Individual "clasts" are not rotated
						Est % Py 20-25% Est % Pb+Zn 3-4% maybe -
						dominately sph.
						Core extremely broken + locally porous. 1.8' spread
						out rec'd.
	166 1	188 5		8	5B6 1	± 2 minor (10Q0) 92:8
		57 5				Mod soft, medium grey to locally dark grey, CS2
						foliated, dolomitic, locally mod carbonaceous phyllite. Contains
						local thin lithons defined by dol + qtz. S2 surfaces
						light to locally dark grey.
						Top 1.3' is highly fractured, + broken white, peg qtz vein.
						Top contact bxa'd ū gouge, bottom contact rubble - bxa.
						Phyllite against qtz vein is gouge + bxa.
						TOI - 169.5 rubble, 1.4' rec'd.
						169.5 - 170.5 rubble + phyllite gouge 1.2' rec'd.
						170.5 - 173.0 rubble 1.1' rec'd.
						173.0 - 176.0 ū broken along S2, 2.6' rec'd.
						176.0 - 179.3 m̄ broken recry O.K.
						179.3 - 180.1 incipient gouge. recry O.K.
						180.1 - EOI m̄ broken, recry O.K.

DDH 89G-20
2 8

CURRAGH RESOURCES INC.
Lithologic Log

Date: Logged By: CUR

Code	From	To	Recov.	No.	Unit	Description
1	10 14	16 20	22 24	26 28	30 34	35
	188 5	194 5		9	5B62	$
		59 3				Mod soft, PS2 foliated, dark grey, dolomitic, mod carbonaceous phyllite. S2 surfaces range from medium silver grey to black. Dol + qtz occur in thin // S2 bands. Top 8" of unit is incipiently gouged & bxa'd.
						TOI → 190.0 soft incipient black flakey gouge. 0.6' rec'd.
						190.0 → 191.5 rubble 1.4' rec'd. spread out.
						191.5 → EOI v̄ broken along S2 + fractures, 3.5' rec'd.
	194 5	196 6		10	4D10	(5D4X) 40 : 60
		59 9				TOI → 195.4, v̄ hard, light grey sph + minor py banded qtzite. Bands generally < 1/2 cm thick, define S2. Sphalerite remobilized into local thin steep fractures. Est Pb+Zn 6-7% - dominately sph. Upper contact gradational over 1-2 cm, marked by ↑ qtz. Lower contact w̄ 5C sharp, // to S2
						195.4 → EOI, v̄ soft, pale tan-green dolomitic/ankeritic, highly altered chloritic phyllite. Unit is thinly PS2 foliated w̄ local thin incipient gouge + bxa. S2 surfaces dull pale olive green. Near contact w̄ 4D are thin local qtz + sph bands // to S2 - insignificant grade. Core v̄ broken, 1.9' rec'd.
				11		
	196 6	197 5		11	4A10	
		60 2				Ribbon banded carbonaceous quartzite. Ribbon banding defined by py > qtz ± minor sph. S2 surfaces dark grey.

DDH 89G-20 (2–8)

CURRAGH RESOURCES INC.
Lithologic Log

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Date: Sept 5/89 Logged By: CUR.

Code	From (10–14)	To (16–20)	Recov. (22–24)	No. (26–28)	Unit (30–34)	Description (35)
						Both contacts lost in rubble. Core v̄ broken, recy O.K.
						Est % Pb+Zn 4-6%
	197 5	210 3		12	4E4	±7 ± $ minor ∓ porous (4L234) minor.
		64 1				Dominate unit is mod soft, dull brown, poorly banded,
						high grade massive pyritic sulphides. Banding (where evident)
						defined by varying Sph ± local Po content. Po ↑ moving
						down unit. Bottom 2' of unit contains abundant Po
						w̄ local small subrounded dol clasts generally < ½ cm ⌀.
						Top 5' of unit highly broken & locally "sandy" + porous.
						206.0 → 207.0 contains ugly pale tan green altered chl
						phyllite in thin intervals. Dominate foliation S_1? near
						∥ to core axis margin of 4L band lost in rubble.
						A similar band occurs at 209.0 to 209.5 within 4L
						are thin qtz + py ∓ sph bands which are folded (phase
						2) and brecciated. Margins w̄ massive $S^=$ also brecciated.
						Est % Pb+Zn for entire interval 10-15% Pb+Zn.
						TOI → 203.9 is rubble 3.8' rec'd.
						203.9 → 205.7 v̄ broken, 1.8' rec'd.
						205.7 → 208.0 rubble, 2.1' rec'd.
						208.0 → EOI v̄ broken, 2.4' rec'd.
	210 3	212 4		13	5C4	* 9 (5B49$) 80:20
		64 7				210 - 210.8 - mod soft pale buff-grey, PS_2?
						laminated - mylonitic? - altered musc phyllite So surfaces
						dull white-grey. Contains local thin bands < 1mm

DDH 89G-20 (2–8)

CURRAGH RESOURCES INC.
Lithologic Log

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Date: Sept 5/89 Logged By: CUR

Code	From	To	Recov.	No.	Unit	Description
1	10–14	16–20	22–24	26–28	30–34	35
						defined by qtz + sph + gal + py. Py also infills abundant thin fractures. Dol occurs in thin rust-tan weathered bands (≈1mm) ∥ to S2? Est % Pb+Zn 1-2% Maybe.
						310.8 - EOI v̄ soft altered weathered (post drilling) pale olive green locally weathered to rust-tan, chloritic phyllite. Local bright green "fuchsite" patches on cut + S2 surface. Contains abundant ankerite - siderite - dolomite in thick bands up to 1cm ∥ to S2. Contains local thin bands - 1-2 mm thick defined by py + qtz + minor sph + gal. Contact against higher altered SB is sharp, ∥ to S2. Contact v̄ lower 4D ~~[illegible]~~ broken + brecciated.
						Core v̄ broken, 2.8' rec'd.
	2112 4	2114 0		14	14D14	BxA (SC4 ~~[illegible]~~ Bxa)
		65 2				Highly broken + brecciated v̄ hard qtzite. Red-brown re-mobilized sph infill abundant fractures. Est % Pb+Zn 15-20%, dominately Sph. Bottom 9" of unit contain abundant thin metatuff? bands up to 2cm thick. Bands are altered dull olive green chl phyllite. Contain local bright green "fuchsite" spots. Altered chl bands highly fractured + brecciated.
						Core v̄ broken, 1.6' rec'd.

DDH 89G-20 (2 8)

CURRAGH RESOURCES INC.
Lithologic Log

Date: Sept 5/89 Logged By: CUR

Code	From	To	Recov.	No.	Unit	Description
1	10 14	16 20	22 24	26 28	30 34	35
	214 0	215 6		15	5C4*	(5B24) 90:10.
		65 7				v̄ soft altered, mylonitic, dull olive green weathered (post drilling)
						to dull tan rust chloritic phyllite. Contains local fuchsite
						spots on S_2? surfaces. Upper contact against 4D bya sharp
						+ brecciated. Lower contact also brecciated. Bottom 4" is
						v̄ soft highly broken and altered, mod carbonaceous
						musc + chl phyllite breccia.
						Core v̄ broken, recy O.K.
	215 6	217 9		16	GOUGE	5A GOUGE
		66 4				Flakey, muddy, v̄ soft, black, carbonaceous phyllite
						gouge. 1.8' rec'd. - A significant fault. Contacts ∥ to S_2.
	217 9	223 0		17	4A0	(5A69) 90:10.
		68 0				217.9 - 218.9 m soft, highly broken, carbonaceous,
						phyllite. Contains local thin bands defined by sph + qtz + py.
						Est % Pb + Zn 3-4%. CS_2 foliated.
						218.9 → EOI v̄ hard, dark grey → black carbonaceous
						qtzite. Ribbon banding poorly developed. Where developed
						defines S_1 + S_2 range up to 2cm thick. Ribbon banding
						defined by fine py + interstitial qtz ± traces of sph + gal.
						Est Pb + Zn 3-4% MAYBE.
						Core v̄ broken due to late steep fractures. 5.4'
						rec'd.

DDH 89G-20 (2 … 8)

CURRAGH RESOURCES INC.
Lithologic Log

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Date: SEPT 5/89 Logged By: CUR

Code	From	To	Recov.	No.	Unit	Description
1	10 … 14	16 … 20	22 … 24	26 … 28	30 … 34	35
	12 2 B 0	12 2 7 4		1 8	5 D 4	1$ (4DO) 90:10
		69 3				Dull cream-green mod soft, PS2 laminated, altered chloritic
						phyllite. Contains local thin qtz bands ∥ to S2. Bands generally
						< 3mm. S2 surfaces dull olive green.
						Bottom 8" of unit is v̄ hard, highly fractured,
						light grey qtzite. Fractures infilled w̄ sph + py. Est Pb+Zn
						5-6%.
						Core v̄ broken, 3.5' rec'd.
	12 2 7 4	12 3 1 6		1 9	4 A 4	
		70 6				v̄ hard dark grey, ribbon banded carbonaceous qtzite.
						Ribbon banding defined by sph > ph ≈ qtz. Defines S1 + S2.
						S2 surfaces black - strongly marks fingers. Banding ranges
						up to 2in thick - bands 25% of unit volume
						Est Pb+Zn 7-8%, dominately sph.
						TOI → 229.0 v̄ broken due to steep fractures. 3.8' rec'd.
						229.0 → EOI m̄ broken along S2, recry good.
	12 3 1 6	12 3 5 4		2 0	4 C 0	
		71 7				v̄ hard, light grey, well banded, pyritic quartzite.
						Banding defined by fine py + interstitial qtz
						Banding ∥ to S2. Bands 20% unit volume. Est
						Pb+Zn 3-4%.
						Core m̄ broken, recry good.

DDH 89G-20
2 8

CURRAGH RESOURCES INC.
Lithologic Log

Date: SEPT 5/89 Logged By: CWR

Code	From	To	Recov.	No.	Unit	Description
1	10 14	16 20	22 24	26 28	30 34	35
	12315 4	12319 5		121	14D14	bxa (4E14) bxa (5C4 *) (4C0) 50:30:15:5
		73 0				Dominate unit is highly broken + fractured, high grade sph > py qtzite. Sulphides extensively re-mobilized into fractures. Est % Pb+Zn 20% - dominately Zn.
						237.8 → 239 is highly broken, fractured, bxa'd massive pyritic S=. Contains local broken qtz clasts. Banding poorly developed - defined by varying Sph concentration. Est Pb+Zn 8-10%. Within 4D + 4E are local thin intervals of altered chlorite + dol + ankerite phyllite. Contains local bright green fuchsite in patches. Bottom 6" of interval is silver white altered musc phyllite. Sz surfaces silver grey with "talc" coatings.
						TOI → 238.0 v̄ broken, recy O.K.
						238.0 → 239.0 rubble, " "
						239.0 → EOI m̄ broken, recy O.K.
	12319 5	12411 3		122	11019 0	
		73 5				highly broken peg. qtz vein. Margin bxa'd. Core v̄ broken, recy O.K. - minor dol in fractures locally porous.
	12411 3	12417 4		123	14A33	4 Bxa (4D33 Bxa) 80:20
		75 4				TOI → 241.8 is v̄ hard, v̄ pyritic, highly bxa'd qtzite → massive S= Several Phase II fold hinges defined by qtz rich bands. S= extensively remobilized into fractures. Est Pb+Zn 6-7%. Bxa due to intense folding?

DDH 89G-20
2 8

CURRAGH RESOURCES INC.
Lithologic Log

Page 13

Date: SEPT 5/89 Logged By: CUR

Code	From	To	Recov.	No.	Unit	Description
1	10 14	16 20	22 24	26 28	30 34	35
						Remaining interval contains several clasts of 4A "floating" in massive Py > Sph. Clasts 40% of unit volume. Clasts highly broken, irregular, range up to 15 cm ϕ - locally show rotation. Est Pb+Zn 8-10%. Est % Py 20-25%.
						Core mod broken, recy good
	247 4	250 1		24	4E4	(4AO) minor. (4LO) minor
		76 2				Poorly banded, massive high grade pyritic s. Banding defines several phase ∥ fold hinges - defined by varying Sph+Gal content. Est Pb+Zn 15-18%. Contains local minor 4A clasts "floating" in massive sulphide. Bottom 5" brecciated w local thin chl phyllite "clasts" at bottom contact against phyllite
						Core w broken, recy good
	250 1	255 1		25	5A6	$ minor ± gouge
		77 8				Mod soft, black, highly broken + fractured carbonaceous phyllite. PS2 foliated. Contains local minor thin dol+qtz bands ∥ to S2. Bottom 1.5' contains local thin intervals of incipient gouge. top contact against 4E is bxa'd.
						TOI - 253.0 ± broken, 1.7' rec'd.
						253.0 → EOI rubble ± flakey gouge 1.7' rec'd.
	255 1	272 3		26	5B6	2 weak $ minor.
		83 0				Medium grey, weakly carbonaceous, locally dolomitic, musc phyllite. S2 medium steel grey. Qtz ∓ dol. locally

DDH 89G-20 (2 8)

CURRAGH RESOURCES INC.
Lithologic Log

Page 14

Date: SEPT 5/89 Logged By: CUR

Code	From	To	Recov.	No.	Unit	Description
1	10 14	16 20	22 24	26 28	30 34	35
						define microlithons. Qtz + dol bands become thicker - more abundant moving down interval. Unit CS2 foliated. Qtz + dol infill abundant fractures. No obvious faults.
						Core ū broken along S2. Recy good
	2772 3	2899		27	5A6	± $ minor
		88 4				Mod soft, thinly laminated, locally CS2 foliated carbonaceous phyllite. Unit is black, S2 surfaces dull black + mark fingers. Contains local lithons defined by Qtz ∓ dol.
						Core ū broken along S2.
						TOI → 277.0 v broken along S2 + fractures 4.2' rec'd
						277.0 → 282.0 " " " " 3.8' rec'd.
						282.0 → EOI ū broken recy O.K.
						No obvious faults.
	2899 9	3092		28	5D0	±B10 minor (5B0) 60:40.
		94 2				ENTERING GREEN EGGS + HAM!?
						Mixed unit of calcareous, pale green PS2 laminated chl phyllite and light grey calcareous, slightly carbonaceous PS2 foliated, musc phyllite. Bands range from 1 to 3 feet. Margins sharp ∥ to S2. Local fine B10 in thin bands in 5D give core "freckled appearance. No obvious faults.
						Core ū broken, recy good

DDH 89G-20 (2 – 8)

CURRAGH RESOURCES INC.
Lithologic Log

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Date: SEPT 5/89 Logged By: CVR

Code	From	To	Recov.	No.	Unit	Description
1	10 – 14	16 – 20	22 – 24	26 – 28	30 – 34	35
	309 2	318 0		29	5A6	± 9 I $ minor. (4L6247) (10Q9)
		96 9				Dominate unit is black, mod⁻ soft⁺, carbonaceous phyllite. S2 surfaces carbon black, strongly marks fingers. CS2 foliated. Local lithons defined by qtz + dol ± py + po. % S= approx 5%.
						At 314.0 is 4 cm thick qtz vein containing abundant Po + Py. Vein is brx'd steep - X-cuts S2.
						Interval contains two 1' intervals of dull grey-green altered musc + chl phyllite. Contains thin bands + stringers of qtz + py + po + traces of sph + gal. Margins of bands ∥ to S2. Grade insignificant.
						Core in broken, recv good.
	318 0	346 1		30	5B7	0 ± 3
		105 5				Light green - grey, CS2 foliated, calcareous, mod⁻ soft chloritic phyllite. S2 surfaces patch dull green - grey. Coarsely laminated. Abundant lithons defined by qtz + calcite + dol. May also be local siderite? in thin bands - post drilling weathered to dull tan-rust.
						Bottom 5' of interval contains small local minor fine ū hard black rounded chert nodules. Nodules elongate ∥ to S2, range up to 2 cm ϕ.
						TOI - 333.5 in broken, recv good.
						333.5 - 337.0 ū broken 4.0' rec'd.
						337.0 → 337.5 gouge - margins ∥ to S2 - not significant
						337.5 → EOI in broken, recv good.

DDH 89G-20

CURRAGH RESOURCES INC.
Lithologic Log

Page 16

Date: SEPT 5/89 Logged By: CVR.

Code	From	To	Recov.	No.	Unit	Description
1	10 14	16 20	22 24	26 28	30 34	35
	346 1	3610 5		B1	5B01	±2 ± 7 ±3
		109 9				Mod soft, CS2 foliated, calcareous, locally chloritic
						medium → light grey musc + chl phyllite. Locally core has
						greenish tinge where chl > musc. Contains abundant thin
						qtz + calcite lithons. S2 surfaces range from medium
						grey to shiny silver grey near EOI.
						TOI - 347.2 v̄ broken, local minor incipient gouge. recy OK
						347.2 - 349.0 v̄ broken along S2, recy O.K.
						349.0 - 351.5 rubble + gouge - not a significant fault.
						351.5 - EOH mod broken. Recy GOOD

EOH

Page 1 of 1

DDH 89-6-20 (2 8)

CURRAGH RESOURCES INC.
Structural Log

Date: July 24 Logged By: A. Rezoik

meters.

Code	From	To	Feature	Sym	S_0 Dip Direct.	S_1 Dip Direct.	S_2 Dip Direct	Description
1	10 14	16 20	22 24	26	28 32	34 38	40 44	
	1416	3	AS12	-				Py & Sph bands defines S_2 comp. banding present.
	1513	9	CS12	M		02	411	micaceous flths present.
	1590		AS12	-			511	micaceous flths & comp banding present.
	1644	5	AS12	-			611	" " "
	1718		AS12	-			619	" " "
	1748		AS12	-			510	micaceous flths present.
	1785		CS12	S		216 3512	711	" " "
	1890		CS12	S		117	510	micaceous flths & comp banding present.
	1908		AS12	-			613	" " "
	1/1010	9	AS12	-			610	comp banding present. S_2 defined by thin chloritic bands
	1/1016	1	AS12	-			418	comp banding present. S_2 defined by thin micaceous bands
	1/1093		CS12	S		211	617	comp banding & micaceous flths present
					EOH			

DDH 89G-20 (2–8) CURRAGH RESOURCES INC.

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Logged by CUR

ASSAY LOG (SAMPLER'S COPY)

Date SEPT 5/89 Sampled by _____

CODE	FROM	TO	SAMPLE	INTR.	REC (m)	UNIT	DESCRIPTION
1	10 94	16 44 20	22 26	28 30	32 34	36 WASTE 40	42
	~~42~~ 44.0 / 1145.7	45.8 / 1150.4	37001	47	1.3 / 43	14A0	± 4 minor
	1150.4	46.8 / 1153.5	37002	31	0.9 / 31	14A0	
	46.8	50.0	—	—	—	WASTE	
	50.0 / 1164.1	50.6 / 1166.1	37003	20	1.3 / 11	14A0	Bxa
	50.6	59.3	—	—	—	WASTE	
	59.3 / 1194.5	60.2 / 1197.5	37004	30	0.9 / 28	14AD	(5D4 +)
	1197.5	61.9 / 1203.0	37005	55	0.9 / 29	14E4	± 7
	1203.0	63.2 / 1207.2	37006	42	1.3 / 42	14E4	± 7
	1207.2	64.1 / 1210.3	37007	31	0.9 / 31	14E4	± 7 (4L) minor
	64.1	64.7	—	—	—	WASTE	
	64.7 / 1212.4	65.2 / 1214.0	37008	16	0.4 / 13	14D4	Bxa
	1214.0	65.7 / 1215.6	37009	16	0.5 / 16	15K4	+
	65.7	66.4	—	—	—	WASTE	
	66.4 / 1217.9	68.0 / 1223.0	37010	51	1.6 / 51	14A0	
	1223.0	69.3 / 1227.4	37011	44	1.2 / 41	15D4	18 (4D0) 90:10
	1227.4	70.6 / 1231.6	37012	42	1.3 / 42	14A4	
	1231.6	71.7 / 1235.4	37013	48	1.1 / 36	14C0	
	1235.4	73.0 / 1239.5	37014	48	1.5 / 48	14ED	(4L) minor
	1239.5	73.5 / 1241.3	37015	18	0.5 / 18	10Q0	
	1241.3	74.6 / 1244.6	37016	43	1.2 / 38	14AD	
	1244.6	75.4 / 1247.4	37017	28	0.9 / 28	14AD	
	1247.4	76.2 / 1250.1	37018	27	0.9 / 27	14E4	
	76.2	109.9	—	—	—	WASTE	

EOH

PROJECT _____ DRILLHOLE NO. 29 G 20 COORDINATES: N _____ DATE JULY 28 1989

LOCATION _____ HOLE SIZE _____ E _____ PAGE 1 of 3

LOGGER T. KERRER INCLINATION _____ ELEVATION _____

PITEAU & ASSOCIATES
GEOTECHNICAL CONSULTANTS
VANCOUVER CALGARY

GEOTECHNICAL CORE LOG

DEPTH (TO)	LENGTH OF RUN	CORE RECOVERY		RQD		HARDNESS	DEGREE OF BREAKAGE		DEGREE OF WEATHERING	ROCK TYPE	BEDDING DIP		BEDDING JOINTS		CROSS JOINTS		COMMENTS
		LENGTH	%	LENGTH	%		CATEGORY	NO.			DEPTH	ANGLE	NO.	FREQ.	NO.	FREQ.	
132	12	5.7		0			6		D						0		
137	5	[illegible]		0			6		D						0		
140.5	3.5	[illegible]		0			6		[illegible]						0		
146	5.5	2.9		0.4			7		D						2		
148.5	2.5	[illegible]		0			6		[illegible]						1		
151	2.5	2.5		0			6		[illegible]						1		
156	5	[illegible]		0.75			[illegible]		D						2		
161	5	[illegible]		0			6		D						0		
[illegible]	[illegible]	[illegible]		0			6		[illegible]						0		
169.5	3.5	[illegible]		0			6		[illegible]						0		
170.5	1	1		0			6		[illegible]						0		
173	2.5	0.9		0			[illegible]		[illegible]						0		
[illegible]	3	2.5		0.35			6		[illegible]						3		
177	2	1.8		0.35			7		E						2		
182	[illegible]	2.5		0.35			7		E						0		
185	3	3.0		1.15			7		E						0		
188.5	3.5	[illegible]		0					[illegible]						3		
191.5	3	[illegible]		0			1		[illegible]						0		
196.5	5	[illegible]		0			7		E						3		
200.5	4	[illegible]		0			7		[illegible]						0		
[illegible]	[illegible]	[illegible]		0			6		E						0		
[illegible]	[illegible]	[illegible]		0.35			7		[illegible]						0		
208	1	[illegible]		0			6		E						0		
212	[illegible]			1.05			7		[illegible]						0		
214.5	[illegible]	[illegible]		0			6		[illegible]						1		
220	5.5	[illegible]		0			7		[illegible]						3		
221.5	1.5	1.5		0			6		[illegible]						0		
227	5.5	[illegible]		0			6		[illegible]						[illegible]		

Fig. 1. Typical rock mechanics core log.

PROJECT _____ DRILLHOLE NO. 89G20 COORDINATES: N _____ DATE _____ 19__

LOCATION _____ HOLE SIZE _____ E _____ PAGE 2 of 3

LOGGER _____ INCLINATION _____ ELEVATION _____

PITEAU & ASSOCIATES
GEOTECHNICAL CONSULTANTS
VANCOUVER CALGARY

GEOTECHNICAL CORE LOG

DEPTH (TO)	LENGTH OF RUN	CORE RECOVERY		RQD		HARDNESS	DEGREE OF BREAKAGE		DEGREE OF WEATHERING	ROCK TYPE	BEDDING DIP		BEDDING JOINTS		CROSS JOINTS		COMMENTS
		LENGTH	%	LENGTH	%		CATEGORY	NO.			DEPTH	ANGLE	NO.	FREQ.	NO.	FREQ.	
229	[illegible]	2.[illegible]		0			6		E						1		
234.5	5.5	5.[illegible]		1.55			6		E						1		
239	4.5	[illegible]		0.4			7		[illegible]						2		
244	5	5		0			7		E						1		
249	5	5		2.05			10		[illegible]						1		
253	[illegible]	[illegible]		0.5			5		E						0		
[illegible]	[illegible]	[illegible]		0			4		[illegible]						3		
[illegible]	[illegible]	5		0.75			[illegible]		E						0		
[illegible]	[illegible]	3.1		0.75			9		[illegible]						1		
268	5	[illegible]		[illegible]			10		[illegible]						1		
[illegible]	4			2.9			[illegible]		[illegible]						[illegible]		
[illegible]	5	[illegible]		0			[illegible]		[illegible]						[illegible]		
[illegible]	[illegible]	[illegible]		0			5		[illegible]						1		
287	5	5		0			[illegible]		[illegible]						1		
[illegible]	[illegible]	[illegible]		[illegible]			[illegible]		[illegible]						1		
296.5	5	5		2.6			10		E						1		
301.5	5	5		4.4			10		E						2		
307	5.5	[illegible]		1.25			8		[illegible]						2		
311.5	4.5	[illegible]		0.4			7		E						0		
316.5	5	[illegible]		2.45			10		[illegible]						2		
320	3.5	[illegible]		0			6		E						1		
325	5	5		0.45			7		E						1		
330	5	4.35		1.85			9		E						0		
334	4	[illegible]		0			7		E						0		
338	4	3.2		0			6		E						2		
342	4	[illegible]		0			6		E						0		
[illegible]	5	5		0.4			7		[illegible]						0		
[illegible]	[illegible]			0			[illegible]		[illegible]						0		

Fig. 1. Typical rock mechanics core log.

PROJECT _____ DRILLHOLE NO. _____ COORDINATES: N _____ DATE _____ 19__

LOCATION _____ HOLE SIZE _____ E _____ PAGE 3 of 3

LOGGER _____ INCLINATION _____ ELEVATION _____

PITEAU & ASSOCIATES
GEOTECHNICAL CONSULTANTS
VANCOUVER CALGARY

GEOTECHNICAL CORE LOG

DEPTH (TO)	LENGTH OF RUN	CORE RECOVERY		RQD		HARDNESS	DEGREE OF BREAKAGE		DEGREE OF WEATHERING	ROCK TYPE	BEDDING DIP		BEDDING JOINTS		CROSS JOINTS		COMMENTS
		LENGTH	%	LENGTH	%		CATEGORY	NO.			DEPTH	ANGLE	NO.	FREQ.	NO.	FREQ.	

89-G-21

CURRAGH RESOURCES INC.

Page 1 of ____

DIAMOND DRILL CORE LOG

Date: _____

Hole Number: 89 G-21

Reference Fabric Orientation Diagram:

Project: 1989 GRUM FILL-IN

Location: _____

Claim: _____

UTM ~~Terr.~~ Plane Co-ords.: 6904550.316 N 5,970.65 N

592471.702 E 2,520.64 E

Grid Co-ords: 60 W / 3S

Elevation: 1262.541

All symmetry determinations looking

Total Depth: 712 feet

_____ with _____ dipping

Inclination: -90° vertical

_____ with dip azimuth _____.

Purpose: Test Change zone

Reason hole Terminated: Drilled into Deal Lake fault

Logged by: _____

Date(s) Logged: _____

Drilling Contractor: ARCTIC

Hole Cemented: _____ Steel down Hole: _____

Assay Lab: _____

Certificate No's: _____

CORE Size	From	To
NW	0	70
NQ	70	712

Collar Cased and Capped: ____

Started: July 24/89 Completed: July 27/89

DDH 89-6-21 (2 – 8)

CURRAGH RESOURCES INC.
Structural Log

Page 1 of

Date: Aug 6/89 Logged By: A. Reznik

Code (1)	From (10–14)	To (meters) (16–20)	Feature (22–24)	Sym (26)	S_0 Dip (28–32)	S_0 Direct.	S_1 Dip (34–38)	S_1 Direct.	S_2 Dip (40–44)	S_2 Direct	Description
		1261	CS13	S			S_3 51	360	76		S_3 [illegible] silvery [illegible] laminations
		1306	CS13	S			S_3 41	124	71		" " "
		1415	CS12	S			30	335	52		Fractures present w 30° trend.
		1451	CS13	S			S_3 44	125	74		S_3 present & defined by thin silvery micaceous laminations
		1515	CS12	S			38	331	51		S_2 defined by comp banding.
		1573	PS12	–			T	T	52		S_2 defined by Py banding (comp banding present.)
		1585	T	–			T	T			Fold Nose Present
		1600	T	–			T	T			Fold Nose Present.
		1655	PS12	–			T	T	61		S_2 defnd by comp banding
		1771	CS12	S			51	000	64		S_2 defnd by Py banding. Comp banding present.
		1863	PS11	–			24	T	T		S_1 defined by Py banding.
		1913	PS12	–			T	T	45		S_2 defined by thin micaceous [illegible]
		1991	T	–			T	T	T		Fold Nose Present
		1001	CS12	S			42	345	62		
		1036	CS13	S			S_3 47	000	74		S_3 present & defnd by thin silvery micaceous laminations
		1109	GS12	–			T	T	72		S_2 defnd by thin micaceous laminations.
		1143	CS12	S			46	340	74		" " "
		1202	CS12	S			45	005	62		" " "
		1274	PS12	–			T	T	60		" " " & by comp banding
		1340	PS12	–			T	T	69		" " "
		1384	CS12	Z			24	110	61		" " "
		1427	CS12	S			40	000	86		micaceous fltns present.
		1483	CS12	S			32	245	75		" " "
		1551	PS12	–			T	T	67		" " "
		1620	CS12	S			26	015	82		" " "
		1652	CS12	S			23	000	78		" " "
		1699	CS12	Z			51	246	62		" " "
		1754	PS12	–			T	T	79		S_2 defnd by Py & Sph banding.
		1824	CS13	S			S_3 62	150	48		S_2 defnd by thin micaceous fltns
		1887	PS12	–			T	T	78		" " " " " "
		1922	PS12	–			T	T	63		" " " " " "
		2045	PS12	–			T	T	75		" " " " " "
		2092	PS12	–			T	T	72		" " " " " "
						EOH					

DDH 89G-21 (2–8) CURRAGH RESOURCES INC. Page 1 of 2

Logged by LR.

ASSAY LOG (SAMPLER'S COPY) Date SEPT 12/89 Sampled by

CODE	FROM	TO	SAMPLE	INTR.	REC (m)	UNIT	DESCRIPTION
1	10 04	16 56.8 20	22 0 26	28 30	32 34	36 WAST 40	42
	186.8 (56.9)	191.5 (58.4)	14999	47	45 (1.4)	4E11$	
	191.5	196.5 (59.9)	15000	50	49 (1.5)	4E11$	
	196.5	201.5 (61.4)	37098	50	50 (1.5)	4E11$	
	201.5	205.8 (62.7)	37099	43	43 (1.3)	4E11$	
	205.8 (62.7)	211.5 (64.5)	37100	57	55 (1.7)	4C01	± $
	211.5	216.8 (66.1)	37101	53	52 (1.6)	4C01	± $
	216.8 (66.1)	218.9 (66.7)	37102	21	20 (0.6)	4C51	± 9 trace Bxa
	218.9	220.6 (67.2)	37103	17	15 (0.5)	4E01	± 1 minor
	220.6	222.0 (67.7)	37104	14	12 (0.4)	5D4$	@
	222.0	225.0 (68.6)	37105	30	29 (0.8)	4E11$	± 8 porous
	225.0	228.6 (69.7)	37106	36	32 (1.0)	4E11$	± 8 porous.
	228.6	231.0 (70.4)	37107	24	23 (0.7)	4C33	± 5 ± 9 trace.
	231.0	234.5 (71.5)	37108	35	34 (1.0)	4E11$	± 8 ± porous
	234.5	238.5 (72.7)	37109	40	35 (1.1)	4C$1	± 8
	238.5	242.0 (73.8)	37110	35	30 (0.9)	4C$1	± 8
	242.0	247.5 (75.4)	37111	55	25 (0.8)	4C$1	± 8
	247.5	253.0 (77.1)	37112	55	51 (1.6)	4C33	± $ minor ± 9 minor
	253.0	257.8 (78.6)	37113	48	48 (1.5)	4A01	± 9 trace
	257.8	263.6 (80.3)	37114	58	30 (0.9)	4C01	$ ± bxa
	263.6	267.6 (81.6)	37115	40	30 (0.9)	4G41	± # ± $ ± 8 trace.
	267.6	272.0 (82.9)	37116	44	31 (0.9)	4G41	± # ± $ ± 8 trace
	272.0	276.0 (84.1)	37117	40	40 (1.2)	4G41	± # ± $ ± 8 trace
	276.0	279.7 (85.3)	37118	37	37 (1.1)	4G41	± # ± $ ± 8 trace
	279.7	283.7 (86.5)	37119	40	40 (1.2)	4G41	± # ± $ ± 8 trace.
	86.5	149.3	— 0 —	—	—	WASTE	
	149.3 (48.9)	494.8 (150.8)	37120	50	50 (1.5)	5C4$	(4C0) minor
	494.8	500.0 (152.4)	37121	52	52 (1.6)	4C07	"micaceous"
	152.4	156.9	— 0 —	—	—	WASTE	
	514.8 (156.9)	519.6 (158.4)	37122	48	48 (1.5)	4C07	± 3 "micaceous"
	519.6	523.6 (159.6)	37123	40	40 (1.2)	4C07	± 3 "micaceous"
	523.6	526.7 (160.5)	37124	31	31 (0.9)	4C0#	$ Bxa (10Q0) 70:30
	526.7	530.1 (161.6)	37125	34	34 (1.0)	4C3$	
	161.6	174.7	— 0 —	—	—	WASTE	
	573.1 (174.7)	577.0 (175.9)	37126	39	39 (1.2)	4A0	(4C0) minor
	577.0	579.4 (176.6)	37127	24	24 (0.7)	4A0	
	579.4	582.3 (177.5)	37128	29	25 (0.8)	4E4	± # ± 1 ± 8 minor.

DDH 89G-21 (2–8) CURRAGH RESOURCES INC.

Page 2 of 2

Logged by WR

ASSAY LOG (SAMPLER'S COPY)

Date SEPT 12/89 Sampled by

CODE	FROM (10–14)	TO (16–20)	SAMPLE (22–26)	INTR. (28–30)	REC (m) (32–34)	UNIT (36–40)	DESCRIPTION (42)
	5823	1789 / 5870	37129	47	1.4 / 47	14A0	±4 minor ± 9 trace
	1789	1870	— o —	—	—	WASTE	
	1870 / 6134	1876 / 6156	37130	22	0.7 / 22	14A37	0 Bxx
	6156	1882 / 6174	37131	18	0.5 / 18	14E9	Bxx ± 8 trace
	1882	2170	— o —	—	—	WASTE	

EOH

PROJECT _____ DRILLHOLE NO. 2DH89G-7 COORDINATES: N _____ DATE _____ 19__

LOCATION _____ HOLE SIZE _____ E _____ PAGE 1 of 4

LOGGER I. [illegible] INCLINATION _____ ELEVATION _____

PITEAU & ASSOCIATES
GEOTECHNICAL CONSULTANTS
VANCOUVER CALGARY

GEOTECHNICAL CORE LOG

DEPTH (TO)	LENGTH OF RUN	CORE RECOVERY		RQD		HARDNESS	DEGREE OF BREAKAGE		DEGREE OF WEATHERING	ROCK TYPE	BEDDING DIP		BEDDING JOINTS		CROSS JOINTS		COMMENTS
		LENGTH	%	LENGTH	%		CATEGORY	NO.			DEPTH	ANGLE	NO.	FREQ.	NO.	FREQ.	
75	7.5	1.5		0			6		D						0		
80.5	5.5	1.1		0			6		D						0		
83.5	3	0.9		0			6		E						0		
87	3.5	2.9		0			6		E						0		
89	2	1.7		0			6		E						0		
92	3	1.9		0			6		E						0		
96.5	4.5	[illegible]		1.1			7		E						[illegible]		
102	5.5	4.5		0			6		E						1		
[illegible]	5	3.9		0.35			7		E						1		
112	5	4.1		0			6		E						1		
116.5	4.5	3.9		0			6		E						0		
121	4.5	3.0		0			6		E						0		
[illegible]	7	3.4		0.45			6		E						0		
128	11	7.3		0			6		E						0		
[illegible]	5.5	[illegible]		0			6		E						0		
139.5	6	4.2		0			6		E						0		
134	4.5	3.8		1.1			7		E						0		
143	9	7.0		0			6		E						0		
[illegible]	[illegible]	3.4		0			6		E						0		
156.5	4.5	1.1		0			6		E						0		
160.5	4.0	3.6		0			6		E						1		
164	3.5	1.5		.35			6		E						0		
169	5.0	5.0		2.90			9		F						0		
171	2.0	2.0		.40			7		F						0		
171.5	0.5	0.4		0			6		F						0		
181.5	10.0	6.4		2.35			7		E						0		
186.5	5.0	5.0		2.10			8		F						1		
192.0	5.5	5.5		4.05			12		F						1		

Fig. 1. Typical rock mechanics core log.

PROJECT _____ DRILLHOLE NO. DDH 89 G21 COORDINATES: N _____ DATE _____ 19__

LOCATION _____ HOLE SIZE _____ E _____ PAGE __ of __

LOGGER I. DORIN INCLINATION _____ ELEVATION _____

PITEAU & ASSOCIATES
GEOTECHNICAL CONSULTANTS
VANCOUVER CALGARY

GEOTECHNICAL CORE LOG

DEPTH (TO)	LENGTH OF RUN	CORE RECOVERY		RQD		HARDNESS	DEGREE OF BREAKAGE		DEGREE OF WEATHERING	ROCK TYPE	BEDDING DIP		BEDDING JOINTS		CROSS JOINTS		COMMENTS
		LENGTH	%	LENGTH	%		CATEGORY	NO.			DEPTH	ANGLE	NO.	FREQ.	NO.	FREQ.	
197	5.0	5.0		3.90			12		E						1		
202	5.0	5.0		4.20			12		E						0		
207	5.0	4.7		2.60			10		E						1		
212	5	5		3.05			9		E						1		
[illegible]	[illegible]	[illegible]		1.5			7		E						1		
[illegible]	[illegible]	[illegible]		0.8			6		E						3		
2295	1.5	[illegible]		0.35			6		E						3		
228	[illegible]	[illegible]		0			6		E						3		
230	[illegible]	[illegible]		0			6		E						1		
233	3	3		0.4			6		E						3		
238.5	2.5	2.8		0.4			6		E						1		
[illegible]	[illegible]	[illegible]		0.75			6		E						1		
247.5	[illegible]	[illegible]		0			6		E						3		
251	3.5	3.5		0			6		E						0		
254.5	3.5	[illegible]		0			6		E						0		
259	4.5	4.5		1.05			6		E						0		
264.5	[illegible]	3.2		0			6		E						2		
[illegible]	[illegible]	2.3		0			6		E						0		
269	5.1	3		0			7		E						0		
274	5	[illegible]		1.20			9		E						1		
279	5	[illegible]		1.05			9		E						0		
282	5	4.5		2.05			9		E						1		
287	5	5.0		0			6		E						0		
291.5	3.6	3.2		0			6		E						0		
296	4.2	5.5		0.85			7		E						1		
301	[illegible]	3.2		0			6		E						0		
[illegible]	[illegible]	[illegible]		1.25			7		E						1		
[illegible]	[illegible]	[illegible]		0.85			7		E						1		

Fig. 1. Typical rock mechanics core log.

PROJECT _____ DRILLHOLE NO. 87-6-21 COORDINATES: N _____ DATE Aug. 1987

LOCATION _____ HOLE SIZE _____ E _____ PAGE 3 of 6

LOGGER A. Brooks INCLINATION _____ ELEVATION _____

PITEAU & ASSOCIATES
GEOTECHNICAL CONSULTANTS
VANCOUVER CALGARY

GEOTECHNICAL CORE LOG

DEPTH (TO)	LENGTH OF RUN	CORE RECOVERY		RQD		HARDNESS	DEGREE OF BREAKAGE		DEGREE OF WEATHERING	ROCK TYPE	BEDDING DIP		BEDDING JOINTS		CROSS JOINTS		COMMENTS
		LENGTH	%	LENGTH	%		CATEGORY	NO.			DEPTH	ANGLE	NO.	FREQ.	NO.	FREQ.	
316	5.5	4.5		0			6		F							1	
320	4.0	3.0		0			6		F							0	
325	5.0	5.0		.85			6		F							0	
328.5	3.5	3.6		0			6		F							1	
333.5	5.0	5.0		.35			7		F							0	
336	2.5	2.5		0			6		F							1	
341	5.0	5.0		2.6			8		F							0	
346	5.0	5.0		0			6		F							0	
351	5.0	5.0		1.35			9		F							1	
356	5.0	5.0		0			6		F							2	
361	5.0	5.0		.70			7		E							1	
366.5	5.5	5.1		0			6		F							0	
372	5.5	5.5		.35			7		E							1	
377	5.0	5.0		.70			7		E							1	
382	5.0	5.0		1.5			9		F							0	
385.5	3.5	2.7		0			6		F							0	
391	5.5	5.5		0			6		E							0	
394	3.0	3.0		.35			6		E							0	
399	5.0	5.0		.85			6		E							0	
404.5	5.5	5.4		.95			8		E							0	
410	5.5	5.3		1.1			7		F							1	
415	5.0	5.0		.4			8		F							0	
419	4.0	3.4		0			6		E							0	
423	4.0	3.6		0			6		F							0	
427	4.0	3.2		.35			6		F							1	
432	5.0	5.0		.85			7		F							0	
436.5	4.5	4.5		0			6		F							0	
441.6	5.1	5.1		1.2			8		F							0	

Fig. 1. Typical rock mechanics core log.

PROJECT _____ DRILLHOLE NO. DDH 59-6-21 COORDINATES: N _____ DATE Aug. 6 1989

LOCATION _____ HOLE SIZE _____ E _____ PAGE 4 of 6

LOGGER A. [illegible] INCLINATION _____ ELEVATION _____

PITEAU & ASSOCIATES
GEOTECHNICAL CONSULTANTS
VANCOUVER CALGARY

GEOTECHNICAL CORE LOG

DEPTH (TO)	LENGTH OF RUN	CORE RECOVERY		RQD		HARDNESS	DEGREE OF BREAKAGE		DEGREE OF WEATHERING	ROCK TYPE	BEDDING DIP		BEDDING JOINTS		CROSS JOINTS		COMMENTS
		LENGTH	%	LENGTH	%		CATEGORY	NO.			DEPTH	ANGLE	NO.	FREQ.	NO.	FREQ.	
447	5.4	5.4		2.4			9		F							0	
452	5.0	5.0		1.95			9		F							0	
457	5.0	5.0		1.2			9		F							1	
461	4.0	3.0		0			1		D							0	
463.5	2.5	2.3		.35			6		E							2	
467.6	4.1	4.1		0			6		E							2	
473	5.4	5.4		.8			7		E							1	
478	5.0	5.0		1.0			6		F							0	
483.6	5.6	5.6		0			7		F							0	
488.6	5.0	5.0		.35			7		F							0	
493.6	5.0	5.0		.4			6		F							1	
499	5.4	5.0		3.15			10		F							1	
504	5.0	5.0		.4			7		F							1	
509	5.0	5.0		1.3			8		E							0	
514	5.0	5.0		3.1			10		F							0	
519.6	5.6	5.4		2.7			9		F							0	
524.6	5.0	5.0		1.5			10		F							3	
530	5.4	5.4		1.05			7		E							1	
534.5	4.5	4.5		1.55			10		F							1	
540	5.5	5.5		2.15			10		F							1	
545	5.0	5.0		2.6			10		F							1	
550.5	5.5	5.3		2.95			10		F							0	
555.5	5.0	5.0		2.5			10		F							0	
561	5.5	5.4		2.4			10		F							0	
566	5.0	5.0		2.25			10		F							0	
571	5.0	5.0		2.45			10		F							0	
576.6	5.6	5.5		1.0			8		F							2	
581.5	4.9	4.9		.85			8		F							5	

Fig. 1. Typical rock mechanics core log.

PROJECT _____ DRILLHOLE NO. DDH 89-631 COORDINATES: N _____ DATE August 1989

LOCATION _____ HOLE SIZE _____ E _____ PAGE 5 of 6

LOGGER A. Brook INCLINATION _____ ELEVATION _____

PITEAU & ASSOCIATES
GEOTECHNICAL CONSULTANTS
VANCOUVER CALGARY

GEOTECHNICAL CORE LOG

DEPTH (TO)	LENGTH OF RUN	CORE RECOVERY		RQD		HARDNESS	DEGREE OF BREAKAGE		DEGREE OF WEATHERING	ROCK TYPE	BEDDING DIP		BEDDING JOINTS		CROSS JOINTS		COMMENTS
		LENGTH	%	LENGTH	%		CATEGORY	NO.			DEPTH	ANGLE	NO.	FREQ.	NO.	FREQ.	
583.5	2.0	2.0		2.0			10		F							0	
588.5	5.0	5.0		2.8			12		F							1	
592	3.5	3.5		.75			7		E							2	
597	5.0	5.0		1.4			7		E							1	
599	2.0	2.0		0			6		E							2	
602	3.0	2.7		.35			6		E							1	cave at 250
607	5.0	5.0		0			6		D							4	
612	5.0	2.9		.4			1		D							0	
613.5	1.5	1.5		0			6		D							3	
615.5	2.0	2.0		0			6		D							0	
619	3.5	3.5		1.6			6		D							1	
623.6	4.6	4.6		0			6		D							5.0	
625	1.4	1.4		0			6		D							1	
630	5.0	4.5		0			6		D							1	
634.6	4.6	4.6		0			6		D							3	
638.6	4.0	3.7		0			2		D							0	
643	4.4	2.3		0			2		D							0	
649	6.0	3.5		0			1		D							0	
654	5.0	1.7		0			1		D							0	
658	4.0	1.5		0			1		D							0	
661.5	3.5	3.0		0			2		D							0	
666.6	5.1	5.1		0			6		E							3	
669	2.4	2.4		0			6		E							1	
674.5	5.5	5.5		0			6		E							1	
679.6	5.1	5.1		0			6		E							0	
685	5.4	5.4		0			6		E							0	
690	5.0	5.0		.70			7		E							0	
695.5	5.5	5.5		0			6		E							1	

Fig. 1. Typical rock mechanics core log.

PROJECT _____ DRILLHOLE NO. ODH 89G21 COORDINATES: N _____ DATE Aug 6 1989

LOCATION _____ HOLE SIZE _____ E _____ PAGE 6 of 6

LOGGER A. [illegible] INCLINATION _____ ELEVATION _____

PITEAU & ASSOCIATES
GEOTECHNICAL CONSULTANTS
VANCOUVER CALGARY

GEOTECHNICAL CORE LOG

DEPTH (TO)	LENGTH OF RUN	CORE RECOVERY		RQD		HARDNESS	DEGREE OF BREAKAGE		DEGREE OF WEATHERING	ROCK TYPE	BEDDING DIP		BEDDING JOINTS		CROSS JOINTS		COMMENTS
		LENGTH	%	LENGTH	%		CATEGORY	NO.			DEPTH	ANGLE	NO.	FREQ.	NO.	FREQ.	
699	3.5	2.5		0			2		D							0	
702	3.0	3.0		0			2		D							0	
708	6.0	5.2		0			1		D							0	
709	1.0	.7		0			1		D							0	
712	3.0	2.0		0			1		D							0	
						—	EOH	—									

Fig. 1. Typical rock mechanics core log.

DDH 89G-21

CURRAGH RESOURCES INC.
Lithologic Log

Page 03

Date: SEPT 6/89 Logged By: CUR

Code	From	To	Recov.	No.	Unit	Description
1	10 0	17 10 0		1	#	TRICONED NO RECOVERY
		21 3				
	17 10 0	18 16 8		2	5A16	± $ minor (5D4 $) minor (10Q0) minor
		56 9				Black, locally CS2 foliated, mod soft carbonaceous
						phyllite. S2 surfaces shiny black + mark fingers. Contains
						local lithons defined by qtz ∓ minor dol. Local
						thin fractures infilled w̄ qtz + cc. Minor rust patches
						in top 12'.
						154.5 - 155.2 pale olive green, bxa'd, mod soft
						dolomitic chl phyllite. Margins highly broken + bxa'd.
						Bottom 24.0' contains several neg. qtz veins
						ranging from 2" to 1.5' thick. Margins of veins
						bxa'd. No obvious faults.
						TOI → 75.0 v̄ broken, local minor incipient gouge.
						1.8' rec'd.
						75.0 → 80.5 rubble, 1.4' rec'd.
						80.5 → 116.5 v̄ broken along S2 + local fractures. recry O.K.
						116.5 → 124.0 v̄ broken, local minor incipient gouge. 5.5' rec'd
						124.0 → 141.4 v̄ broken along S2, recry good.
						141.4 → 143.9 rubble due to fractures, recry good.
						143.9 → 151.9 v̄ broken, recry O.K.
						151.9 → 157.0 rubble, 2.5' rec'd.
						157.0 → 161.2 v̄ broken, 4.0' rec'd.
						161.2 → 171.6 mod broken, recry good.
						171.6 → 172.0 v̄ broken, recry good. qtz vein
						172.0 → EOI m̄ broken, recry good

DDH 89G-21 (2 … 8)

CURRAGH RESOURCES INC.
Lithologic Log

Page 04

Date: SEPT 6/89 Logged By: CWR

Code	From (10–14)	To (16–20)	Recov. (22–24)	No. (26–28)	Unit (30–34)	Description (35)
	1186 8	2015 8		13	4E11$	± 8 ± 9 trace.
		62 7				v̄ hard, thickly banded massive → semi massive sulphides
						Banding defined by fine qtz + dol + musc ranges up to 5cm
						thick generally aligned // S2. Dol weathered to rust-orange-tan
						(post drilling) Magnetite occurs locally in black streaks + bands
						// to S2. Dol also occurs in local subrounded clasts up to
						3cm ϕ. Local splashy Cpy infills thin fractures.
						Local concentrations of Sph + Gal in thin bands -
						grade is not very good. Dominant sulphide is Py ≈ 60%
						Pb+Zn 5-6% MAYBE! Remaining is Qtz + dol + musc + mag (minor)
						Core m̄ broken, recvy good, no faults.
	2015 8	2116 8		14	4C10	± $ "micaceous / chloritic" (5D4 $) (4L124) 92:5:3
		66 1				Poorly banded, low grade, mod̄ hard, micaceous / chloritic
						pyritic qtzite. Banding defines S1 + S2 defined by Qtz ∓
						dol ± musc + chl alternating with py ∓ sph + gal bands.
						Bands generally < 3cm thick. Est Pb+Zn 2-4%
						214.9 → 216.0 is buff tan-green, altered, thinly laminated
						chl + dol phyllite. Margins // to S2
						216.0 → EOI white-grey, altered m-sc phyllite. Contains
						local thin stringers + bands of qtz ∓ minor py, sph, gal.
						Grade 2-3%.
						TOI → 213.7 m̄ broken, recvy good.
						213.7 → EOI v̄ broken, recvy good

DDH 89-21
2 8

CURRAGH RESOURCES INC.
Lithologic Log

Date: SEPT 6/89 Logged By: CUR

Code	From	To	Recov.	No.	Unit	Description
1	10 14	16 20	22 24	26 28	30 34	35
	121168	121189		15	14C15	± 9 Trace ± Bxa.
		667				v hard, mostly banded, locally brecciated pyritic qtzite.
						No grade. Py extensively re-mobilized into late fractures
						Contains abundant cpy-bn carbonaceous foliation cpy infills
						local fractures. Unit locally braid + porous. Py rotation
						on clasts = bxa due to ductility contrasts between S= +
						qtz.
						TOI - 217.5 rubble due to fractures, recy good.
						217.5 → EOI 5 broken, recy good.
	121189	121206		16	14E10	± 1 minor.
		672				Homogeneous, banded, brassy yellow massive py sulphides. Contains
						local small minor qtz clasts. Top contact braid. Bottom contact
						lost in rubble.
						Core v broken, recy O.K.
	12K P 6	121220		17	15D14$	@
		677				Pale olive green, v soft, altered chl tremsc + dol
						? anterite phyllite Unit is CS2 laminated: Post drilling
						weathered to rusty orange in thin bands - presumably
						anterite? Contacts against massive S= sharp // to S2.
						Core v broken, recy O.K.
	121220	121286		18	14E11$	#8 Porous Bxa
		697				Highly broken and fractured, porous, banded, moderately
						siliceous, massive py sulphides. Locally porous due to weathered

DDH 8.9.G-2.1
2 8

CURRAGH RESOURCES INC.
Lithologic Log

Page 06

Date: SEPT 6/89 Logged By: CVR

Code	From	To	Recov.	No.	Unit	Description
1	10 14	16 20	22 24	26 28	30 34	35
						carbonate. Contains local irregular + broken clasts of qtz + dol + musc. % Py 70% remaining is qtz + dol + musc. Est % Pb + Zn 2-3%. Mag in local thin streaks ∥ to S_2. Core ū broken due to breakage along weathered out fractures. 1.0' core loss. Again, unit is bxa'd due to ductility contrasts of $S^=$ + qtz during deformation
	2286	2310		9	4C33	± 5 ± 9 trace
		704				Highly fractured + broken, ū pyritic, low grade, hard, qtzite. Banding poorly developed - defined by py + minor sph + gal. $S^=$ extensively re-mobilized into thin fractures. Contains local "sp clasts" cpy in thin fractures. Top 1.0' of unit contains minor, thin carbonaceous Galia - disrupted along late thin fractures. Est Pb + Zn 3-4%. Core ū broken due to steep fractures, recvy good.
	2310	2345		10	4E18	± 8 ± Porous.
		715				Same unit as # 8. Dolomitic, pyritic, massive $S^=$. Local thin qtz + dol bands ∥ to S_2. Contains local irregular qtz "clasts" up to 3cm ϕ. Locally abundant mag in thin beaded bands + streaks ∥ to S_2. Est % Py 60% Remaining Qtz + Dol + Mag, minor Sph + Gal in locally poorly defined streaks ∥ to S_2. Est Pb + Zn 5%. Core mod broken along local fractures, recvy O.K

DDH 89G-21 (2–8)

CURRAGH RESOURCES INC.
Lithologic Log

Page 07

Date: SEPT 7/89 Logged By: CVR

Code	From	To	Recov.	No.	Unit	Description
1	10–14	16–20	22–24	26–28	30–34	35
	2D 4 5	2 4 7 5		1 1	4 C $	± 8 "Chloritic" ± Porous (5D4 $ @) 70:30.
		75 4				Mixed unit, dominate unit is thickly banded, locally
						porous, mod hard, dolomitic, low grade pyritic qtzite
						Banding defined by py + minor qtz + dol + are commonly
						porous due to weathered carbonate. Banding defines S_2.
						Local thin streaks of sph + gal within py bands.
						Bands also contain thin black streaks + bands of mag.
						Est % Py 25%. Est Pb + Zn 2-3%.
						Interbanded in intervals ranging from 1cm to 20cm
						are thinly PS_2 laminated v̄ soft, pale tan-green
						altered chl + dol + ank phyllite. Ank weathered to
						rusty orange in thin bands // to S_2. (post drilling) Margins
						// to S_2.
						TOI - 236.5 Rubble, recry O.K.
						236.5 - 239.7 m̄ broken, recry O.K.
						239.7 - 241.7 rubble local bra + gouge - not a
						significant fault. recry O.K
						241.7 - 243.2 v̄ broken recry O.K.
						243.27 EOI - rubble only 4" of redrilled 4C
						Frags rec'd - May be fault?
	2 4 7 5	2 5 3 0		1 2	4 C 3 3	± $ minor ± 9 minor ± porous
		77 1				Highly fractured + broken, poorly banded, v̄ pyritic,
						barren qtzite locally porous due to weathered carbonate
						Banding defined by Py + qtz + minor sph + gal. Local minor
						dol in thin irregular clasts. Est Pb + Zn 1-2%

DDH 89G-21 (2 – 8)

CURRAGH RESOURCES INC.
Lithologic Log

Page 08

Date: SEPT 7/89 Logged By: CUR

Code	From	To	Recov.	No.	Unit	Description
1	10 – 14	16 – 20	22 – 24	26 – 28	30 – 34	35
						traces of Cpy in thin fractures. Est % Py 30-40%.
						TOI - 250.7 rubble due to abundant fractures. Only
						2.9' rec'd. Poor recovery due to fractures trending // to
						core axis.
						250.7 → 251.5 v̄ broken, recy O.K.
						251.5 → 251.9 rubble, " "
						251.9 → EOI intact.
	253 0	257 8		13	4A0	+ 9 trace.
		78 6				v̄ hard, CS2 foliated ribbon banded, mod carbonaceous
						qtzite. S2 surfaces dull dark grey - only slightly mark
						fingers. Ribbon banding up to 4 cm thick, diffuse -
						defined by py + qtz, no grade. 255 - 256.5 highly fractured
						+ bxa'd - not a significant fault. Traces Cpy in thin fractures
						Est Pb+Zn 1-2%. Est % Py ≈ 25%
						Core v̄ broken, recy O.K.
	257 8	263 6		14	4C0	$ I bxa.
		80 3				v̄ hard, PS2 banded, dolomitic, low grade
						pyritic qtzite. Banding generally < 1 cm thick // to
						S2 defined by Py + Qtz + Dol + minor sght gal.
						Bottom 2.0' bxa'd, contains highly fractured, large,
						tan dol clasts. Qtzite is highly fractured, s= extensively
						re-mobilized into fractures. Est Pb+Zn 3-4% MAYBE
						TOI - 262.4 v̄ broken - abundant fractures, recy O.K.
						262.4 → EOI rubble, only 2" core rec'd - FAULT?

DDH 89G-21 (2 – 8)

CURRAGH RESOURCES INC.
Lithologic Log

Page 09

Date: SEPT 7/89 Logged By: CVR

Code	From	To	Recov.	No.	Unit	Description
1	10–14	16–20	22–24	26–28	30–34	35
	263 6	283 7		15	4G4	±# ±$ ± 8 trace ± Porous.
		86 5				High grade, thickly banded, massive pyritic/baritic
						sulphides. Banding defines S2 - characterised by alternating
						baritic / pyritic + base metal concentrations. Banding
						ranges up to 10 cm thick. Contains local interstitial
						calcite + dol in intervals up to 2.0' in length.
						These intervals porous due to weathering of carbonate.
						Contains local minor thin beads of mag elongate // to S2.
						Est % Pb+Zn ranges from 8-15%. Local abundant
						honey coloured sph.
						Core w̄ broken, recry good.
	283 7	296 1		16	5B0	$ 4 slight ± B10 minor.
		90 3				Mod soft, dominately PS2 foliated, slightly altered,
						calcareous, musc + chl phyllite. S2 surfaces light grey -
						slight green tinge - minor "talcose coatings". Dol
						occurs in thin tan-weathered (post drilling) // to S2.
						TOI - 290.5 v̄ broken, Top contact w̄ massive
						S= is likely faulted - Approx 2.0' core loss at this
						contact - 4.2' spread out rec'd.
						290.5 - EOI mod broken, recry good - Local minor paper thin bio forming // to
						S2.
	296 1	369 1		17	5B0	± 7 minor.
		112 5				Light grey, mod soft, calcareous, CS2 foliated, local
						slight green tinge, musc + chl + calcite phyllite. Abundant
						thin microlithons defined by qtz + calcite. S2 surfaces

DDH 89-G-21
2 8

CURRAGH RESOURCES INC.
Lithologic Log

Date: SEPT 7/89 Logged By: CVR

Code	From	To	Recov.	No.	Unit	Description
1	10 14	16 20	22 24	26 28	30 34	35
						light steel grey, locally slight green tinge. No significant faults.
						TOI - 299.8 mod broken, local minor incipient surge in thin intervals // to S_2, recy good.
						299.8 - 310.4 m broken along S_2 recy good.
						310.4 - 320.0 v broken along fractures + S_2, recy good.
						320.0 - 352.0 m broken, recy good
						252.0 - 358.0 v broken due to fractures, local mino- incipient surge intervals - no significant faulting - recy good.
						358.0 - EOI mod broken, v broken at end rons, recy good.
						Contains usual amount of qtz veining.
13169	1	14135	6	1118	151810	7 (500) 80:20
		132	8			Green eggs + ham. Mixed unit of dominately mod - soft, calcareous, locally CS_2 foliated musc + chl + cc + qtz phyllite S_2 surface light steel - grey v green tinge. Abundant lithons + bands defined by qtz + calcite. Bands average around 3mm thick - relict S_2 + S_1. Within this unit are bands ranging from 5 to 30 cm thick of thinly PS_2 laminated, mod - soft pale green - grey, calcareous musc phyllite - margins // to S_2 & are sharp. Contains thin bands, generally < 3mm of qtz + cc.
						TOI → 387.6 m broken, recy good.
						387.6 → 391.6 v broken, local incipient surge + brx a. surge intervals range up to 8" thick // to S_2 Not

DDH 890-21

CURRAGH RESOURCES INC.
Lithologic Log

Date: SEPT 7/89 Logged By: CUR

Code	From	To	Recov.	No.	Unit	Description
						significant fault.
						391.6 - 419.0 m̄ broken, recry good.
						419.0 - 427.1 v̄ broken along S2 + fractures, recry good.
						427.1 - EOI m̄ broken, recry good
	4315 6	4445 0		19	5B0	±7
		135 6				PS2 laminated, calcareous, light grey, locally green grey musc + chl phyllite locally, carbon content gives unit a medium grey hue. Contains abundant thin qtz + cc bands ∥ to S2. S2 surfaces shiny steel grey - locally greenish tinge. Core m̄ broken recry good. No faults.
	4445 0	4576		20	5B0	1% minor (5D0) 90 : 10.
		139 5				Dominate unit m̄ soft locally, CS2 foliated musc >> chl phyllite Calcareous, S2 surfaces medium steel grey Local lithons defined by fine qtz + calcite. S2 surfaces medium shiny steel grey.
						Top 1.0' of interval is thinly PS2 laminated, pale olive green, v̄ calcareous, chloritic phyllite. S2 surfaces dull olive green. Margins sharp ∥ to S2. CC → DOL NEAR EOI
						Core s̄ broken, recry good.
	4576	4639		21	5B6	GOUGE (10Q9) (5B6 ± $) 50 : 40 : 10
		141 4				TOI → 460.3 Cream grey, flakey, noncalcareous, v̄ soft mud gouge, top contact 27° to core axis dipping same direction as S2.
						460.3 → 461.4 m̄ soft, brn'd, noncalcareous, dolomitic

DDH 89G-21

CURRAGH RESOURCES INC.
Lithologic Log

Date: SEPT 7/89 Logged By: CUR

Code	From	To	Recov.	No.	Unit	Description
1	10 14	16 20	22 24	26 28	30 34	35
						light grey musc phyllite.
						461.4 → 462.0, bxa'd qtz vein. Thick fractures, up
						to 3 cm thick infilled w̄ massive sph+gal.+ py.
						Bottom contact gouged + steep ≈ 20° to core axis.
						462.0 → EOI - mod soft silver-grey PS2 foliated,
						highly broken musc phyllite. S2 silvery grey. Noncalcareous,
						minor incipient gouge along local fractures.
						TOI → 461.0 gouge + rubble, 2.0' rec'd.
						461.0 → EOI v̄ broken, local incipient gouge in thin
						intervals along S2 + steep fractures. 2.9' spread out rec'd.
	4613 9	4616 1		22	5B2	6 ± $ minor
		142 1				Mod soft, PS2 foliated, dark grey → black, noncalcareous,
						mod⁻ carbonaceous phyllite. S2 dark grey → black, slightly
						marks fingers. Contains abundant thin qtz siltstone bands
						generally < 1/2 cm thick. Top 1.5' of unit contains
						abundant thin fractures ± incipient gouge trending
						18-20° to core axis, same direction as S2
						Core v̄ broken, heavy O.K.
	4616 1	4714 7		23	5B2	6 ± $ → [5A6 ± $] (5B76) 85:15
		144 7				Dark grey to black, carbonaceous, mod⁻ soft,
						dominately PS2 foliated phyllite. S2 surfaces dark dull grey
						slightly mark fingers. Abundant thin qtz bands generally
						< 1/2 cm define S2. Bands contain local minor dull-
						weathered to rust-tan (post drilling).

DDH 89G-21

CURRAGH RESOURCES INC.
Lithologic Log

Page 13

Date: SEPT 7/89 Logged By: CUR

Code	From	To	Recov.	No.	Unit	Description
1	10 14	16 20	22 24	26 28	30 34	35
						TOP 1.5' of interval is light grey w̄ greenish tinge PS2 foliated musc + chl phyllite. Margins w̄ more carbonaceous phyllites gradational over 2-3 inches - marked by ↓ carbon content. Contains local thin qtz ± dol siltstone bands // to S2.
						TOT → 470.4 m̄ broken along S2 + local fractures recv. good.
						470.4 → 470.9 fault bxa - not significant 38° 270° wrt S2. recv. O.K.
						470.9 → EOI m̄ broken, recv. good.
	4747	4810 4 146 4		24	5347	0 ± $ ± 9 ± B10 (1000) (5C4#@$) 85:10:5.
						Dominate unit is unusual unit - Dull green-grey m̄ soft, altered chloritic phyllite. S2 surfaces shiny green-grey. Local bio developed in thin folia // to S2. Contains local thin qtz+cc siltstone bands and laminae defining S1 + S2. Centered at 476.6 is 4 cm thick // S2 band of py + qtz + sph + sal. Band has 2 cm selvages of thinly laminated pale green chl.
						476.2 → 476.9 foliaform pegmatitic qtz vein.
						476.9 → 477.5 is pale olive green + white striped calcareous, PS2 banded + laminated, altered chloritic phyllite. Banding defined by alternating qtz + dol + ank? + dol and chlorite bands.
						Core m̄ broken, recv. good.

DDH 89G-21 (2 – 8)

CURRAGH RESOURCES INC.
Lithologic Log

Date: SEPT 7/89 Logged By: CVR.

Code	From	To	Recov.	No.	Unit	Description
1	10 – 14	16 – 20	22 – 24	26 – 28	30 – 34	35
	4810 4	4819 8 149 3		215	5B210	$ Mod soft. CS2 foliated, dark grey, mod carbonaceous musc phyllite. Abundant thin qtz + cc + dol siltstone bands aligned // to S2 and define microlithons. S2 surfaces dark grey - only slightly mark fingers. No faults. Core w̄ broken, recry good.
	4819 8	4914 8 150 8		216	5C14	# ± BIO ± $ (4CO) trace. Mod soft, pale olive green + white striped altered chloritic phyllite. Locally, chl → bio giving a "specked" appearance. Unit is w̄ calcareous. Banding generally < 1/2 cm thick, defines S2. Locally, dol occurs in local thin tan-rust bands (post drilling weathering) aligned // to S2. S2 surfaces dull pale green-grey. Centered at 491.6 is 4" band of w̄ hard banded pyritic qtzite. Bands // to S2. Banding is thin, poorly defined by py + qtz ± sph + gal. Margins of band // to S2. Core w̄ broken, recry good.
	4914 8	5000 0 152 4		217	4C017	"micaceous" w̄ hard, thinly PS2 banded, pyritic / pyrrhotitic qtzite. Banding is diffuse - defined by py > po ranging up to 1/2 cm thick. Banding 25-30% of unit volume. Local abundant thin micaceous folia // to S2. No grade. Po rusted + stained core surface (post drilling). Contact w̄ higher SC sharp, // to S2.

DDH 89G-21
2 8

CURRAGH RESOURCES INC.
Lithologic Log

Date: SEPT 7/89 Logged By: CUR.

Code	From	To	Recov.	No.	Unit	Description
1	10 14	16 20	22 24	26 28	30 34	35
						Lower contact also sharp // to S_2. No faults.
						Core ī broken, recy good
	151010 0	151015 1		12B	151C14	# $ ~ 350 minor
		154 0				Pale olive green + tan-white striped altered
						chloritic phyllite. ~ calcareous. Local minor microlithons
						defined by qtz + calcite. S_2 surfaces medium-dark
						dull green. Local bio deformed in thin diffuse
						laminae // to S_2. Unit is m soft. No faults
						Core m broken, recy good.
	151015 1	151133		1219	151B1210	± $ minor → [5A0 ± $ minor]
		156 5				Mod soft, CS2 foliated, mod carbonaceous, ~ calcareous,
						phyllite. S_2 surfaces dark shiny grey - slightly marks
						fingers. Abundant thin qtz + cc ~ dol siltstone bands
						+ laminae define lithons // S_2. No faults
						TOI → 506.2 m broken, recy good.
						506.2 → 509.4 ~ broken, recy good
						509.4 → EOI ī broken, recy good.
	151133 3	151148		1310	151C14	6 $ @
		156 9				Mod soft, thinly laminated, pale olive green +
						tan-white striped altered chloritic phyllite. Top +
						bottom contacts sharp, // to S_2. Striping defined by
						qtz + dol + ank, generally < 1/2 cm thick.
						Core ī broken, recy good.

DDH 89G-21 (2 8)

CURRAGH RESOURCES INC.
Lithologic Log

Date: SEPT 7/89 Logged By: CVR

Code	From	To	Recov.	No.	Unit	Description
1	10 14	16 20	22 24	26 28	30 34	35
	151148	151236		131	141C10	7 ± 3 "micaceous" I % minor.
		159 6				v̄ hard, banded, pyritic / psammitic qtzite. Banding defined
						by $P_2 >> P_0$ aligned // to S_2. Bands range up to 5 cm
						thick. In top 1.5' of unit, $S^=$ bands are 70% of unit volume
						Remainder unit, $S^=$ bands are 25-30% of unit volume.
						No scale. Contains locally abundant thin micaceous foliations
						// to S_2. Core iron stained due to post drilling
						weathering of P_0.
						Core ē bottom, very good.
	151236	151607		132	141C10	# % Bxa (1000) 70:30.
		160 5				TOI → 524.6 v̄ broken + fractured psammitic qtzite
						vein. Margins lost in rubble.
						524.6 → EOI Highly broken + brec'd pyritic quartzite.
						fractures infilled w̄ gouge + calcite. Clasts range up
						to 5 cm ϕ and are rotated. Fractures trend
						steep to core axis ≈ 12-15°. No orientation possible
						Core is gouge + rubble. 1.0' core loss. No scale
	151607	151810		133	14C13	%
		161 6				v̄ hard, thickly banded, dolomitic, pyritic qtzite. Bands
						range up to 10cm thick, defined by dominate P_2,
						minor sph + gal + minor interstitial dol. calcite infills
						abundant steep fractures. Near EOI, dol infill 2cm
						thick fracture, // to S_2. small subrounded qtzite fragments
						"float" in ton weathered dol within this fracture.

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CURRAGH RESOURCES INC.

Lithologic Log

Date: SEPT 7/89 Logged By: CUR

Code	From	To	Recov.	No.	Unit	Description
1	10 14	16 20	22 24	26 28	30 34	35
						Local patchy rust on fracture surfaces. Fine Pb+Zn 2-3%
						Core is broken very good.
	15310 1	15312 2		314	151816	$ (5C4$) 80:20
		162 2				Dominate unit same as 25. Dark grey → black, CSz
						foliated, mod soft, mod carbonaceous, dolomitic, minor
						phyllite. Sz surfaces medium – dark grey – only slightly
						marks fingers. Abundant lithons defined by qtz + dol.
						TOI → 530.9 pale green a ton striped, dolomitic
						altered chl phyllite. Margins // to Sz
						Core is broken, very good.
	15312 2	15711 2		315	151810	
		174 1				Typical 5B. Light grey mod soft, CSz foliated,
						calcareous minor phyllite. Contains abundant thin qtz + cc
						microlithons and bands defining S1 + Sz. Sz surfaces
						medium shiny steel grey. No faults.
						No faults, core is broken along Sz, recy is perfect.
	15711 2	15713 1		316	151814	# $
		174 7				Mod soft, pale olive green + white – ton striped altered
						chl phyllite. White striping // to Sz defined by qtz + cc +
						dol. Margins of band sharp // to Sz. Sz surfaces dull pale
						green. Core is broken, recy good

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CURRAGH RESOURCES INC.
Lithologic Log

Date: SEPT 7/89 Logged By: CUR

Code	From	To	Recov.	No.	Unit	Description
1	10 14	16 20	22 24	26 28	30 34	35
	1517.3 1	1517.9 4		1317	141A10	(4CO) 95 : 10
		176 6				V hard CSa banded + foliated, ribbon banded carbonaceous qtzite. Sa contains carbon black + marks fingers. Ribbon banding diffuse, defined by py + qtz + traces of sph-gal, generally < 1/2 cm thick, one band is 12 cm thick (continued at 578.0). Banding defines S_1 + S_2. Banding 20% of unit volume. Est % Sph-Gal 1-2%.
						Top 5" selvage against SC is light grey - carbon has been leached out.
						Bottom 5" against 4E carbon bleached out.
						Interval contains 3-4 phase 2 fold hinges.
						Core in broken, recy good.
	1517.9 4	1518.2 3		1318	141E14	± # ± 1 + 8 minor
		177 5				Massive pyritic sulphides. Top 1.0' of unit contains abundant interstitial calcite. 5= contain broad streaks of sph-gal poorly aligned // to S_2. Bottom 1.0' of unit highly broken due to fracturing and contains thin qtz rich bands // to S_2. Mag. occurs locally in small blebs + streaks // to S_2. Est Pb+Zn 8%.
						TOI → 81.5 V broken, recy good.
						81.5 → EOT rubble due to steep fracture. 0.7' rec'd.

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CURRAGH RESOURCES INC.
Lithologic Log

Date: SEPT 7/89 Logged By: CVR

Code	From	To	Recov.	No.	Unit	Description
1	10 14	16 20	22 24	26 28	30 34	35
	15812 3	15817 0		13 9	14A10	± 4 minor ± 9 trace.
		178 9				v̄ hard, CS2 foliated, ribbon banded carbonaceous qtzite.
						S2 surfaces dull black + marks fingers. Ribbon banding thin,
						diffuse defined by py + qtz ± minor sph + gal. Sph + gal
						more abundant in top 1.5' of unit. Local traces of
						Cp, infill fractures. Est Pb + Zn ranges from 2-5%.
						Core 5 broken, recy good.
	15817 0	16016 7		14 0	15A16	(4EO) minor
		184 9				Thinly PS2 laminated, mod soft, black, carbonaceous phyllite.
						Contains local thin qtz - siltstone laminae // to S2. S2
						surfaces carbon black - strongly mark fingers. Qtz + dol infill
						abundant thin X-cutting fractures.
						599 → 599.5 is redrilled fragments of homogeneous
						massive Py. Fragments range up to 3 cm ø. May be
						cave.
						Interval contains several foliaform pegmatitic qtz veins
						ranging from 2 cm to 30 cm thick. Fractures infilled
						w̄ Py + PO. Margin bxa'd.
						587.0 - 591.2 v̄ broken, recy O.K.
						591.2 - 605.6 m̄ broken, recy O.K. v̄ broken at end runs.
						605.6 - EOI v̄ broken, local minor incipient gouge
						in thin intervals // to S2.

DDH 89G-21

CURRAGH RESOURCES INC.
Lithologic Log

Date: SEPT 7/89 Logged By: CUR

Code	From	To	Recov.	No.	Unit	Description
1	10 14	16 20	22 24	26 28	30 34	35
	6067	6103 186 0		41	5A6	GOUGE + BxA. Flakey, black, soft, muddy carbonaceous gouge and breccia. Bxa fragments range up to 2 cm. Margins of gouge not rec'd. 1.7' rec'd. A significant fault likely related to lower DOAL LAKE FAULT. Noncalcareous.
	6103	6134 187 0		42	5A6	Thinly PS2 laminated, black, mod- soft noncalcareous carbonaceous phyllite. S2 carbon black - strongly marks fingers. Locally abundant thin X-cutting qtz + cc infilled fractures. Core v̄ broken, very good
	6134	6156 187 6		43	4A37	0 Bxa v̄ hard, black carbonaceous pyritic quartzite bxa. No grade. Py sulphides ± Po infill fractures up to 5 cm thick. % S= 30%. Bxa related to nearby Doal lake fault. Core v̄ broken, very good
	6156	6174 188 2		44	4E0	Bxa ± $ trace Brassy yellow, homogenous, barren, massive fine grained Py Bxa. Highly fractured, - fractures healed w̄ very fine pyrite. Individual clast small, generally < 2cm. Local minor thin dol. clasts floating in massive py. Core slightly broken, very good

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2 8

CURRAGH RESOURCES INC.
Lithologic Log

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Date: SEPT 12/89 Logged By: CUR

Code	From	To	Recov.	No.	Unit	Description
1	10 14	16 20	22 24	26 28	30 34	35
	6117 4	6315 6 193 7			15A6	± 1 ± 8 minor Highly fractured, thinly CS2 laminated, black, locally siliceous carbonaceous phyllite. Contains abundant thin fine qtz lithons. Unit mod soft locally w̄ hard in intervals w̄ high qtz lithon concentration. S2 surfaces carbon black. Local minor dol in thin bands generally // to S2. Local minor gouge // to S2 in thin intervals. Dol infills locally abundant fractures. Noncalcareous TOI → 628.6 rubble due to abundant fractures. 12.4' rec'd spread out. 628.6 → EOI w̄ broken. local minor gouge intervals recy O.K.
	6315 6	6614 5 202 5			GOUGE	+ Bxa (5A6) Noncalcareous, flakey, dark grey → black & carbonaceous gouge + bxa Part of DOAG LAKE FAULT. Only 15.0' rec'd
	6614 5	6918 7 211 1			15A6	± 8 minor ± 9 minor Thinly PS2 laminated, mod soft, carbonaceous phyllite. S2 surfaces carbon black mark fingers. Contains abundant thin qtz siltstone laminae defining S2. Locally, thin qtz rich bands contain diss fine py and locally minor Dol. Core w̄ broken along S2 + local steep fractures Recy good.

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2 8

CURRAGH RESOURCES INC.
Lithologic Log

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Date: SEPT 12/89 Logged By: CVR

Code	From	To	Recov.	No.	Unit	Description
1	10 14	16 20	22 24	26 28	30 34	35
	16 9 2 7	17 1 2 0			6 0 U G	E DOAL LAKE FAULT.
		2 1 7 0				Flake, carbonaceous, noncalcareous gouge + bxa. Gouge contains local intervals where carbon less abundant. Minor local small massive Py clasts. 16.9' gouge + bxa rec'd. Hole shut down in Doal Lake Fault.

EOH

CURRAGH RESOURCES INC.

Diamond Drill Core Log

DDH 819G-121

Date: _____ Logged By: _____

Code	Drillhole	Elevation	Northing	Easting	Units (feet/metres)	R.F.E.	
	2 8	10 16	17 24	25 32	34 39	41 42	
T	819G-121						

FEET

Code	Drillhole	Depth	Zenith Angle	True Azimuth	Comments
	2 8	10 14	22 26	28 32	34 56
RR	819G-121	10 0	-90 0	90 0	ATCOLLAR
R	819G-121	1214 0	-86 0	135 0	SPERRY SUN
R	819G-121	1319 0	-84 5	141 0	SPERRY SUN
R	819G-121	1549 0	-81 5	141 0	SPERRY SUN
R	819G-121	1699 0	-82 0	141 0	SPERRY SUN
R					
R					
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Code	Drillhole	Comments, Errant Remarks, Snivellings and / or Lewd Suggestions
1	2 8	10 56