

GRUM DEPOSIT

1988 DRILLING

LOGS

88G-01 to

88G-05

012153

DIAMOND DRILL CORE LOG

Date: Sept. 30/88

Hole Number: B8 G-01

Reference Fabric Orientation Diagram:

Project: Grum 1988 Drilling

Location: Grum Depos. t.

Claim: _____

Terr. Plane Co-ords.: 6905 113.23 N 6,393,63 N

593 411.66 E 2,897.31 E

Grid Co-ords: 74W 9.5 N

Elevation: 1300.63

All symmetry determinations looking

Total Depth: 308.0 ft. 93.9 m

NW with S₂ dipping

Inclination: -90° (Vertical)

SW with dip azimuth _____

Purpose: Ore reserve definition drilling

Reason hole Terminated: Drilled into lost well

Logged by: C.V. Reed

Date(s) Logged: _____

Drilling Contractor: Arctic Diamond Drilling

Hole Cemented: N Steel down Hole: N

Size	CORE From	To	Collar Cased and Capped: <u>N</u>
<u>NW</u>	<u>0</u>	<u>157</u>	
<u>NQ</u>	<u>157</u>	<u>308.0</u>	

Assay Lab: Mine B-C Au + S.G

Certificate No's: _____

Started: _____ Completed: _____

CURRAGH RESOURCES INC.
Lithologic Log

Code	From			To			Recov.		No.		Unit	Description
	10	14	16	20	22	24	26	28	30	34		
	10		1157	0					11		#	0/B - TRIMMED - NO RECOVERY
			47	9								
	1157	0	1163	5					12		14A14	Slightly weathered.
	479		49	5								<p> V hard, micaceous, sph ribbon banded, V high grade, carbonaceous quartz. Contains abundant purple thin black carbonaceous folia defining S2. Ribbon banding is defined by red-brown sph → py, banding generally < 1cm thick & is 20-25% of unit volume. Local patchy orange red coatings present on fracture surfaces. S2 surfaces are dull carbon black. Unit is micaceous. No obvious faults. </p> <p> Est PbZn 16-18% Sph → Gal TOT - 159.8 V iron recovery 0.8 157.2 - 157.4 is 0/B core - unfiltered small qtz + 10AB particles 159.8 - TOT in fracture recovery good </p>
	1163	5	1166	8					13		14D10	(5C4#) trace
	495		510	8								<p> Dominant unit is V hard, light grey, micaceous, poorly banded, locally pyritic quartz. Contains local thin bands defined by red-brown sph. Sph has been extensively remobilized into thin fractures. Bottom 1' of unit, banding is defined by fine py + interstitial areas qtz. Bottom 1' also contains local purple thin pale green chl folia aligned // to S2. Banding is disrupted by abundant thin fractures. No visible oxidation. Est PbZn 5-6%. Sph → Gal. </p> <p> 163.3 - 163.5 is thin, pale green, V soft, altered chloritic phyllite contains minor local "bedsite" scale cone </p>

CURRAGH RESOURCES INC.
Lithologic Log

Code	From	To	Recov.	No.	Unit	Description	
1	10	14	16	20	22 24 26 28 30	34 35	
							effluves slightly when powdered + mixed in 30% HCL
							70L-164.0 is broken pieces, 0.5
							164.0-FOF in broken pieces, 0.5.
							No obvious faults
	11616	8	11711	0	14	14L	GOUGE + RUBBLE
	58	8	1512	1			white, is soft, highly altered, "talass" mass-sericite phyllite rubble + white powder gouge. Recovery is extremely poor. Margins of gouge were not recovered. 0.4' of small white 4L fragments + white powder rec'd.
	11711	0	11717	4	15	1410	± 5 (4EO Imager) (5C4*) 10:17:73
	521		1541	1			is mixed unit
							70L-171.6 is soft + friable, pale olive green, highly altered chloritic phyllite. Contains local bright green "Fuchsite" patches. Effluves slightly when mixed in 20% HCL. Likely contains mass "antinite" Margins not rec'd.
							171.6 - 173.7 poorly banded, is hard, mineralized, massive py sulphide banding defined by local thin concentrations of interstitial grey gtz aligned // to S2. Local thin band at 171.6 containing sph. gal. Est Mn 22% Est Zn @tz 10-15%
							173.7-FOF is hard, locally highly broken + fractured, poorly banded, micaceous, light grey gtzite. Banding is is diffuse + thin defined by local concentrations of fine py +

CURRAGH RESOURCES INC.
Lithologic Log

Date: Sept 30/80 Logged By: CJA

Code	From	To	Recov.	No.	Unit	Description	
1	10	14	16	20	22 24	26 28	30 34 35
							gta + lesser red-brown spl. Spl have been extensively re-mobilized into abundant thin fractures. Thin, light green, gta microlithons are locally present. Minor FOZ, local minor green thin carbonaceous. Lha define lithons. Est Pb+Zn 4-5%.
							701-173.6 v broken, recvy good
							176.3-FOZ v broken due to abundant fractures, recvy good
	1177	4	11914	7	16	14E14	(4A0) (5C4X) 95:5:5
	541		1519	3			Dominant unit is a med hard, yellow-brown, high grade, micaceous thickly banded purple gta. Banding defined by local concentrations of spl + gal + range up to 5cm thick. Banding defines Est Pb+Zn 14-16%.
							180.0-181.0 is 5" thick (true thickness) in band, is ribbon banded, carbonaceous gta. 4A band trends roughly to core axis + defines zone 3. Gold nose. 4A is broken.
							186.5-187.4 is bright green, high, altered, soft + friable, metabasite unit contains abundant bright green "fishlike" plates. margins of metabasite lost in rubble.
							701-178.8 recvy good - med broken
							178.8-179.3 rubble - med run recvy ok
							179.3-181.6 v broken, recvy good
							181.6-183.4 rubble - recvy good
							183.4-183.1 is broken, recvy good - local minor insignificant BxA.
							183.1-186.6 rubble, 3.2' spread out + rec'd.

CURRAGH RESOURCES INC.
Lithologic Log

Core No.	From		To		Recov.		No.		Unit		Description
	10	14	16	20	22	24	26	28	30	34	
											186.6 - 191.3 \bar{v} broken, very good, local competent beds From 187.4 - 188.0 - bottom surface against metabasite
											191.3 - FOI rubble due to steep fractures, fractures have abundant white powder oxide coatings, very good.
	11914	7	12113	0				7	141A	14	
	593		1614	9							\bar{v} hard, dark grey to black, thin, fine grained, carbonaceous qtzite. Unit is S_2 foliated. S_2 surfaces are dull carbon black. Rhythmic banding generally $\leq 1/2$ cm thick, defined by S_{ph} slightly greater than P_{ph} + lesser interbedded white-grey qtz. Locally S_2 have been re-mobilized into thin fractures. Contents locally abundant thin grey qtz veins. S_2 banding defines S_2 . No visible weathering, no faults. Est $Ph + Zr$ 10-12% $S_{ph} \gg Gal$
											196.2 - 196.3 \bar{v} broken due to steep fractures, very o.k.
											196.2 - 198.5 \bar{v} broken, very good.
											198.5 - 199.0 rubble due to steep fractures, very good.
											199.0 - 201.2 \bar{v} broken, very good.
											201.2 - 202.0 rubble - end run - very good.
											202.0 - 204.5 \bar{v} broken, very good.
											204.5 - 207.0 \bar{v} broken along S_2 - very good.
											207.0 - 211.1 intact
											211.1 - 212.2 rubble - end run - very good.
											212.2 - FOI \bar{v} broken, very good.

Code	From		To		Recov.		No.		Unit		Description
	10	14	16	20	22	24	26	28	30	34	
	121130	121160					18		151816		
	649	16158									PS2 laminated, noncalcareous, most soft, medium grey, musc phyllite. S2 surfaces are shiny silvery grey. Centers darker paler than pale green chl laminations developed // to S2. Margins of phyllite band // to S2 Core in broken, very good. No faults
	121160	121186					19		141214		
	658	16166									most soft, pale grey-green, PS2 laminated, thin, PS2 banded, noncalcareous altered musc > chl phyllite banding generally < 2mm thick - defined by dominant fine py + lesser fine gsh. S2 surfaces are dull light grey, w abundant light pale green chl clots. Margins of chl band are // to S2 Est % S =, dominantly Py 10% Est Ph + Z = 3-4% Core slightly broken, very good - no faults
	121186	121342					110		151A16		
	16166	16183									(504) (1000) Dominant unit is most soft, black, PS2 laminated, calcareous musc phyllite. S2 surfaces carbon black contains local minor py inclusions. band over SA is noncalcareous. Within this unit are 3 med thick calciferous pschistites qtz veins. Veins locally vegy, due to weathering of carbonate out of local fractures. Veins range from 4 to 8 inches thick. 123.4 - EOI is soft, pale green, highly altered chloritic phyllite. contains local minor clumps of fine py

CURRAGH RESOURCES INC.
Lithologic Log

Core	From		To		Recov.		No.		Unit		Description
	10	14	16	20	22	24	26	28	30	34	
											Unit is P ₂ laminated, micaceous - margins are // to S ₂ . S ₂ surfaces dull pale light green. Core slightly broken, very good.
	121314	2	121316	8			111		14110		
	1683		1619	1							Medium grey-black, v hard, micaceous, P ₂ foliated, ribbon banded, carbonaceous quartz. S ₂ surfaces are carbon black. Contains local minor development of massive folia along S ₂ cleavage. Banding generally < 2 cm thick // to S ₂ , defined by dense P ₂ + lesser interfoliation. Banding contains only local traces of sph. Est % P ₂ = 15-18% Est % P ₂ 14 = 2%. 101-226.0 S broken, very good. 226.0 - EOL v broken due to steep fracture, very good. No visible weathering - no faults.
	121316	8	131316	0			112		14114		I 1 minor ± 5 minor.
	1691		1711	9							v hard, thickly banded, micaceous, massive high grade yellow-brown pyritic S ₂ . Banding ranges on a scale up to 5 cm - // to S ₂ , defined by local concentrations of sph + gal + desc fine py. Top 1' of unit contains two v 3 cm clasts of barren, ribbon banded, carbonaceous quartz. 231.2 - 233.2 local thin black carbonaceous folia are developed along margins of thin grey qtz + desc py laminations. Within this interval, these barren bands are 15% of unit volume. Est P ₂ for entire unit 14-16%.

CURRAGH RESOURCES INC.
Lithologic Log

Code	From	To	Recov.	No.	Unit	Description		
1	10	14	16	20	22 24	26 28	30 34 35	
								Core in broken, very good - no faults no visible weathering.
	12136	0	12141	4		1113	14A10	+4
	12149		12147					
								Unit hard, P ₅₂ ribbon banded, noncalcareous, carbonaceous g ₁₂ ite.
								Unit same as #11. Ribbon banding defined by dominate p ₅ +
								interstitial gray g ₁₂ ite. Locally, ribbon banding defined by sph +
								less fine py. Banding is 25-30% of unit volume. Bands
								generally 2-3 cm thick.
								Est % Ph ₂ O ₅ ranges from 2 to 6%. No visible weathering,
								no obvious faults
								Core in broken, very good.
	12141	1	12151	7		1114	151014	\$ (5A6) (5C4X) (4D0) 85:10:05
	12144		1216	7				
								Dominate unit is in soft, pale tan-green, dolomitic,
								locally C ₅₂ foliated altered chloritic phyllite. S ₂ surfaces are
								dull pale green. Containing abundant thin tan bands defined
								by fine dol aligned // to S ₂ . Contain locally abundant
								thin g ₁₂ lumps which occur in thin bands ranging
								up to 4" thick. These bands are about 20% of unit
								volume.
								249.4-250.1 is black, P ₅₂ foliated, most soft, noncalcareous
								carbonaceous phyllite. Margins of SA are sharp, // to S ₂ .
								250.9-251.1 is thin band of i hard, thin, P ₅₂
								banded, psitic g ₁₂ ite. Banding defines F ₂ fold nose.
								Bands generally 2-3 cm thick defined by dominate p ₅ +
								lesser sph. Margin appear // to S ₂

Code	From		To		Recov.		No.		Unit		Description
	10	14	16	20	22	24	26	28	30	34	
											351.1-FOI Pale dull olive green, in soft, altered metabasite. Contains local lenses of bright green "hercynite". S ₂ surfaces are dull olive green. Margins of band 11 to S ₂
											707-354.0 \bar{v} broken, very good
											354.0-FOI in section, very good
	121511	7	121613	3				115	151A161	± 1	(1000) 90:10
	121616		1810	4							Highly fractured & locally highly broken, black, most soft to locally hard, locally siliceous, noncalcareous, carbonaceous phyllite. S ₂ surface carbon black. Contains local minor thin, PS ₂ 1 banded "tuffaceous" pale green chloritic phyllite intervals - margins are sharp, 11 to S ₂ . Tabulars 2-2cm thick. Locally, unit is hard due to abundant thin ^{grey} siliceous laminae. Contains 6 highly fractured, regionalite, qtz veins. Veins range in thickness from 2cm to 15cm. Phyllite margins are commonly irregularly brecciated. Core \bar{v} broken, very good.
	121612	3	121617	6				116	1101010		White, \bar{v} broken bull qtz vein. Margins lost in rubble. Core \bar{v} broken, 3.1' acid.
	121617	6	121712	2				117	151A16	± 1	(504)
	121811	6	1813	0							Dominant unit is same as # 15.
											3714-FOI is most soft, dull pale green - green, PS ₂

CURRAGH RESOURCES INC.
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Code	From		To		Recov.		No.		Unit		Description
	10	14	16	20	22	24	26	28	30	34	
											foliated, thinly banded, carbonitic?, altered calcareous phyllite Banding is < 2mm defined by thin del? Margins of S ₂ // to S ₂
											207-269.B in broken, very O.K.
											269.B - 270.B rubble, 6" core loss
											270.B - FOI in broken, very good.
	121712	2	121717	3				1118		141A10	"
	1830		1814	5							V hard, locally S ₂ foliated, micaceous, ribbon banded, carbonaceous gtzite S ₂ surfaces are carbon black. Contains local lithons defined by fine white-grey gtz. Ribbon banding is diffuse, defines S ₂ , consists of fine ps + interstitial quartz. Banding is 20% of unit volume. Est ph 2m 2-3%. Est % py 15%. Core in broken due to local steep fractures, very good. No faults.
	121717	3	121819	0				1119		141A14	(5C4 ↓) 92:8
	1845		1818	1							Dominant unit is V hard, thinly ribbon banded, high grade carbonaceous gtzite. Ribbon banding defined by locally dominant red-brown silt + ps + interstitial quartz. Sulphides have been locally remobilized into thin fractures. Banding is generally < 1mm thick + defines S ₂ . Locally, core is porous due to weathering of carbonate in fractures. Unit is locally carbon free in thin selvages to local malabarite bands.

CURRAGH RESOURCES INC.
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Code	From		To		Recov.		No.		Unit		Description
	10	14	16	20	22	24	26	28	30	34	
											Est % Py 15-18% Est % Ph+Zn 10-12%
											277.5 - 277.6 ; 281.1 - 282.1 ; 288.2 - 288.8 are bands of
											in soft, pale olive green unlaminated PS ₂ foliated chloritic
											phyllites. Contain local lenses of bright green "Achlorite".
											S ₂ surfaces are dull tan-olive green. Unit becomes
											slightly when powdered + mixed in 20% HCL likely
											sol? - amorphous? Margins of bands are locally irregularly
											fractured.
											Core in broken, very good.
	121819	0	121914	1				1210	15A1B		GOUGE + BxA
	188	1	1819	6							in soft, highly broken + gouged black to locally medium
											grey, phyllite BxA + GOUGE. Unit becomes harder - less carbonaceous -
											moving down the hole.
											702 - 291.0 is black, flakey gouge top contact sharp // to
											S ₂ 0.7' rec'd.
											291.0 - 501 medium grey, highly broken + irregularly fractured +
											gouged, micaceous, more phyllite, 1.9' rec'd.
	131914	1	131011	0				1211	15B1B		(5D68) 70:30
	189	6	1911	7							701 - 295.5 is dull green-grey, med soft, PS ₂ foliated,
											micaceous chl >> more phyllite. Margins in lower SB + higher
											part are slightly fractured. Unit is thinly bedded, defined by fine
											dark micaceous dol? Bands generally 2-3mm thick.
											295.5 - 501, remaining unit is medium-grey, micaceous,
											PS ₂ laminated, locally highly fractured, med soft mic + chl

CURRAGH RESOURCES INC.
Lithologic Log

Code	From	To	Recov.	No.	Unit	Description
1	10 14	16 20	22 24	26 28	30 34	35
						phyllite S ₂ surfaces shiny "steely" grey. Unit highly fractured near thin, dolomite g/lz veins. Core to broken, very good
	131011 0	131014 0		1212	151B14	1. Transition Bx A + Gouge
	911 7	912 7				Very soft, highly broken, cream-grey, incipiently associated & gouged, mass phyllite margins lost in rubble Core is rubble + gouge, 1.4' recovered
	131011 0	131018 0		1213	151B16	2 weak [360 & unit]
	912 7	913 9				Medium to dark grey, PS ₂ foliated, mud soft, micaceous, moderately carbonaceous, mass + cc chl phyllite. S ₂ surfaces shiny light to medium grey. Dolomite in situ local minor thin fractures No faults. 102-304 B rubble - broken along S ₂ . 304.8 - FOI intact.
<div style="font-size: 2em; font-weight: bold; opacity: 0.5;">7 FOI</div>						

Code	From			To			Feature	E S	S ₀		S ₁		S ₂		Description	
	10	14	16	20	22	24			26	28	32	34	38	40		44
				48.2												
				11518	0	PISIR								62		carb folia in 4A
				52.4												
				11712	0	PISIR								72		silica bands in 4E
				54.9												
				11810	0	PISIR								213		carb folia in 4E5
				58.8												
				11913	0	PISIR								01		banding in 4E4 Phase 2
																fold nose.
				60.0												
				11917	0	PISIR								315		
				62.5												
				12105	0	CISIR				414	9010			618		Lithons in 4A.
				65.2												
				12114	0	PISIR								516		Micaceous foliation.
				66.1												
				12117	0	PISIR								415		" "
				70.1												
				12130	0	PISIR								310		banding in 4E
				72.8												
				12139	0	PISIR								412		carb folia in 4A
				74.9												
				12145	5	CISIR				310	11810			710		lithons in 5D4
				77.7												
				12155	0	PISIR								410		carb folia
				79.2												
				12160	0	PISIR								410		" "
				83.2												
				12173		PISIR								716		carb folia
				84.3												
				12176	5	CISIR	M			01				616		lithons in 4A
				86.6												
				12184	0	PISIR								615		carb folia in 4A
				91.1												
				12199	0	PISIR								211		micaceous foliation
				94.0												
				12108	5	PISIR								518		" "

E O A

PROJECT 88G-01 BOREHOLE NO. _____ COORDINATES: N _____ DATE _____
 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		RDP		SPHERICITY	DEGREE OF BREAKAGE		DEGREE OF WEATHERING	ROCK TYPE	BEDDING DEP		BEDDING JOINTS		CRACK JOINTS		COMMENTS	
		LENGTH	%	LENGTH	%		CATEGORY	NO.			DEPTH	ANGLE	NO.	FREQ.	NO.	FREQ.		
158	1.8									26th	Rec	RSD						
160	2.6			.4						259	4.9	1.0						
166	5.6			1.6						262	4.2	.4						
171	1.2									265	2.7							
176	5.2			1.4						269	3.6	.4						
179	3.0									271	1.7							
180	1.7			.4						276	5.5	.5						
182	1.7									278	2.4	.5						
186	4.5			.5						281	4.9	.5						
190	4.7									286	4.3	.4						
194	5.8			.4						291	4.7	1.9						
196	2.1									294	2.1							
199	4.1			1.5						299	5.5	1.8						
202	2.7			1.5						304	4.1							
207	6.1			.8						309	5.7	2.6						
212	5.0			2.7														
215	2.8																	
219	4.8			1.2														
224	5.3			1.4														
227	3.9			1.4														
232	5.3			2.5														
236	4.3			2.5														
241	5.8			2.4														
245	3.8			.6														
251	5.6			.9														
254	4.0			.5														

FOK

Fig. 1. Typical rock mechanics core log.

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DIAMOND DRILL CORE LOG

Date: Sept 21/88

Hole Number: 88G-02

Reference Fabric Orientation Diagram:

Project: Grum 1988 Drilling

Location: Grum Deposit

Claim: _____

Terr. Plane Co-ords.: 6905 043.98 N

6,331.93 N

592 432.09 E

2,859.74 E

Grid Co-ords: 72W 8.5 N

Elevation: 1302.43

All symmetry determinations looking

Total Depth: 255.0 ft (77.7m)

NW with S2 dipping

Inclination: -90° Vertical

SW with dip azimuth _____

Purpose: Reserve definition drilling

Reason hole Terminated: Drilled into footwall.

Logged by: C. V. Reed

Date(s) Logged: Sept 21/88

Drilling Contractor: _____

Hole Cemented: N Steel down Hole: N

Size	CORE From	To	Collar Cased and Capped:
<u>NW</u>	<u>0</u>	<u>116.0</u>	<u>0/B</u>
<u>NQ</u>	<u>116.0</u>	<u>122.0</u>	<u>0/B</u>
<u>NW</u>	<u>122.0</u>	<u>182.0</u>	<u>0/B</u>
<u>NQ</u>	<u>182.0</u>	<u>255.0</u>	

Assay Lab: Mine B-C. Au + S.G

Certificate No's: _____

Started: _____ Completed: _____

CURRAGH RESOURCES INC.
Lithologic Log

Code	From	To	Recov.	No.	Unit	Description
	10 14 16 20 22 24 26 28 30 34 35					
L	100	11162		1	#	OIB TRICORDED - NO RECOVERY
		354				
L	111162	11220		12	#	OIB 10AB Boulder Fragments.
		372				Axis 1 Batho. low-hum. bl. granitic boulders + fragments.
						largest boulder 9" long. Top 0.4" small oib pebbles
						generally < 0.5 cm d.
						TOE - 116.5 small oib pebbles 0.4' red'd.
						116.5 - 122.0 4.2' variably sized granitic boulders + fragments.
L	11220	11620		13	#	TRICORDED NO RECOVERY
		494				
L	11620	11820		14	#	OIB boulders, fragments, + fill
		555				Dominately small 10AB boulder fragments up to 8" long
						near oib bedrock interface is 4cm long piece of
						PSZ sphalerite laminated quartzite (404) fragment batho
						contact against oib till. local minor intervals of pebbly
						med also recovered.
						TOE - 166.5 2.2' of dominately 10AB granitic boulder
						fragments. One 8" boulder of fractured pale green diabase
						red'd.
						166.5 - 172.0 1.0' small creamy white 10AB boulder fragments
						red'd.
						172.0 - 174.0 0.8' of pebbly med fill + small oib
						10AB fragments red'd.
						174.0 - 179.0 0.6' small red'd. oib pebbles +
						small oib 10AB fragments red'd.

Code	From	To	Recov.	No.	Unit	Description
1	10	14 16	20 22 24	26 28 30	34 35	
						179.0 - 182.0 - 0.8' small reddish O/B fragments.
						1 3" long piece of O/B 404 also recovered. Minor reddish mud/clay also rec'd.
	1182.0	1185.9	10.8	15	14E1	(4A4) (10 QO) FRAGMENTS - weathered
		516.7				Reddish, small, massive py S ² + sph. rich, carbonaceous qtzite pebbles. Largest pebble is 3 cm. long. Minor sulphide gouge + BzA also rec'd. Only 0.8' rec'd. Small white peg qtz fragments also rec'd. Minor rust on fracture surfaces. Core is rubble - only 0.8' rec'd.
	1185.9	1192.3		16	14E11	Porous - weathered ± BzA.
		518.6				Highly fractured, moderately weathered + porous, most hard, locally siliceous, massive pyritic S ² . Medium texture, white- gray quartz occurs interstitial to massive fine py in broad diffuse bands // to S ₂ locally, these bands are porous due to weathered carbonates? Bands are steeply dipping, < 25° to core axis + range up to 8" thick. Locally, near thin, highly irregular ^{local} qtz veins, unit is brecciated. Overall colour is dark brown-grey due to py oxidation. Est Ph ₂ O ₂ ≤ 30% — diff. # is estimate due to weathering To E - 188.0 to horizon 1.8' rec'd. 188 - 189.5 rubble, 0.8' rec'd 189.5 - 190.5 in zone, recovery O.K

CURRAGH RESOURCES INC.
Lithologic Log

Date: Sept 21/88 Logged By: CVR

Code	From		To		Recov.		No.		Unit		Description
	10	14	16	20	22	24	26	28	30	34	
											190.5-191.5 Rubble due to fracturing, recov. o.k.
											191.5-FOI Intert.
		11913	2	11914	7			7		14A	RUBBLE.
					59						Black, carbonaceous, locally py + sph within banded, quartzite rubble. Largest piece 2 cm long. Local pyrite bands are porous. Core condition is extremely poor. Numbers and grade estimation differ. Est intert. 2-5%. Contact to higher 45 appears to be 11 to S ₂ .
											Core is rubble - 1.3' spread out rec'd. Core highly broken due to extreme fracturing.
		11914	7	12102	0			18		14A14	
					61						Highly fractured + broken, in hard, thin ribbon banded, black, carbonaceous quartzite. Banding generally < 1 cm thick defined by Py + Sph. Banding is approx 20-25% of unit volume. Sph + Py also concentrated in thin fractures. S ₂ surfaces are carbon black + strongly rough fingers. Est % Py 10-12% Est PhZn 10-12% S ₂ >> Gal.
											TOI - 196.7 \bar{v} broken 2.1' rec'd
											196.7-199.0 rubble due to fracturing, 1.6' rec'd.
											199.0-202.0 \bar{v} broken, 2.8' rec'd.
		12102	0	12109	0			19		14K	GOUGE + BxA (SAG GOUGE + BxA)
					163						TOI - 207.0 Is mixed creamy-white and black carbonaceous flakey phyllite gouge. Mangles of gouge lost

Code	From		To		Recov.		No.		Unit		Description
	10	14	16	20	22	24	26	28	30	34	
											in rubble
											207.0 - 207.8 - more competent mixed creamy white sericite phyllite, and med- soft black carbonaceous ^{noncalcareous} musc phyllite rubble. One fragment shows SA/42 contact sharp, parallel to S ₁ . Later S ₂ X-cuts contact.
											207.8- EOT is soft, noncalcareous, creamy white, flaky, sericite phyllite gouge/rubble. Contacts lost in rubble. Core is gouge + rubble, 3.4' rec'd
	121019	0	12112	1				110	151A16	±1	
				6146							Med- soft, locally hard, black, noncalcareous, locally CS ₂ Etched, carbonaceous phyllite. S ₂ surfaces are dull carbon black + strongly mark fingers. Contains local minor qtz silty laminae which define lithons. Core is broken along S ₂ foliation. Recov O.K.
	121113	1	121113	7				111	114L10	± GOUGE	
				1615							is soft, creamy white, noncalcareous, altered musc + sericite phyllite. S ₂ surfaces are dull creamy white with powder "talcase" coatings. Top contact lost in rubble, bottom contact defined by X-cutting S ₂ 2 cm thick flaky gouge interval. Gouge is 000/26°, S ₂ dips 64° to core axis. Core is rubble + gouge, 1.2' rec'd

Code	From		To		Recov.		No.		Unit		Description
	10	14	16	20	22	24	26	28	30	34	
	12113	7	12117	5			112		151214	*	(5A6) 60:40.
			66	3							Mixed unit of alternating thin bands of black SA + pale light olive green SD. Margins of bands are ll to S ₂ . Bands are about 4" thick. SD4* is med soft, CS ₂ foliated, carbonate laminated, pale olive green chl. phyllite. Dol and/or Ankerite? occur in thin lam. lamination which define lithons. Black SA bands are also med soft. RS ₂ foliated. SA is noncalcareous, carbonaceous + contain thin qtz laminations which locally define lithons. TOI - 214.2 \bar{v} broken, recy O.K. 214.2 - FOT rubble 0.9' rec'd.
	12117	5	12119	0			113		151216	2	GOUGE + RUBBLE (5A6) GOUGE + RUBBLE
			66	8							TOI - 218.6 Mixed medium grey + black flakey carbonaceous phyllite gouge Margins lost in rubble. 218.6 - FOT Highly broken & flakey, medium grey, \bar{v} soft, slightly carbonaceous, noncalcareous phyllite rubble. 1.8' "spread out" rubble + gouge rec'd.
	12119	0	12124	0			114		151216	2	(10Q03 9 min) 75:25
			68	3							TOI - 219.9 \bar{v} hard, med fractured, muscovitic white qtz vein. Thin local carbonates infilled \bar{v} dol \bar{v} local traces of P _o & P _g . Remaining interval is \bar{v} soft, fissile, slightly carbonaceous, noncalcareous, muscovite phyllite. Unit is CS ₂ foliated. S ₂ surfaces are dull medium grey and contain patchy white

Lithologic Log

Date: Sept 21/88 Logged By: cup

Code	From		To		Recov.		No.		Unit		Description
	10	14	16	20	22	24	26	28	30	34	
											- grey alteration clay coatings. Contains local minor intervals of incipient clayey gouge developing along thin S ₂ bedding S ₂ fractures. Core \bar{v} broken, 3.4' rec'd.
L	121214	0	121312	0			1115		1101010		\bar{v} hard, white pegmatitic qtz veins. Veins locally highly fractured & broken. Broken surfaces locally show thin tan-green coatings. Phylite selvages adjacent to qtz veins are highly broken & slightly brecciated. TOT - 229.0 \bar{v} broken, recr, good 229.0 - FOT rubble, 1.5' rec'd.
L	121312	0	121316	2			1116		151316		2 weak Mod soft to locally \bar{v} soft, dominantly P S ₂ foliated, non-calcareous, slightly carbonaceous, medium grey mass phyllite. Contains local minor pale green chl laminations developed along S ₂ foliation. Top 8" selvage to quartz vein is incipiently gneissed. 11 to S ₂ . Kutter 8" against another 10Q vein is also locally fractured & gouged. Core \bar{v} broken, recr, is O.K.
	121316	2	121411	0			1117		1101010		- Highly fractured & broken, white ^{barren} pegmatitic qtz vein Core is qtz rubble 3.8' spread out rec'd.

CURRAGH RESOURCES INC.
Lithologic Log

Code	From		To		Recov.		No.		Unit		Description	
	1	10	14	16	20	22	24	26	28	30		34
		121411	0	121419	9			118	151816			GOUGE
					716	2						<p>↳ soft, medium grey, noncalcareous, flakey, coarse phyllite gouge</p> <p>Gouge appears to be incipiently developed 11 to S2</p> <p>3.1' gouge void.</p>
		121419	9	121515	0			119	151816			
					717	7						<p>Medium grey, med soft, PS2 bithead, slightly carbonaceous, more phyllite. Contains local minor development of pale green sh. l. bita 11 to S2. Local ↳ thin qtz silty laminations define microliths. S2 surfaces range from shiny medium to dark grey. Unit is noncalcareous. Contains local minor thin intervals of incipient gouge developing 11 to S2.</p> <p>Core ↳ broken along S2. Recovery is good.</p>
<p>EOH</p>												

DIAMOND DRILL CORE LOG

Date: SEPT 28 / 88

Hole Number: BBG-03

Reference Fabric Orientation Diagram:

Project: Grum 1988 Drilling

Location: Grum Deposit

Claim: _____

Terr. Plane Co-ords.: 6904 811.94 N

6,210.47N

592 385.44 E

2,656.46E

Grid Co-ords: 68W 1.5N

Elevation: 1269.00 m.

All symmetry determinations looking

Total Depth: 432 ft. 131.7m

NW with S2 dipping

Inclination: -90° Vertical

SW with dip azimuth _____.

Purpose: Reverse Reinitiation Drilling

Reason hole Terminated: Drilled to targeted depth into footwall.

Logged by: G.V. Reed.

Date(s) Logged: Sept 28, Sept 29 / 88

Drilling Contractor: Arctic Diamond Drilling

Hole Cemented: N Steel down Hole: N

Size	CORE From	To	Collar Cased and Capped: <u>N</u>
<u>NW</u>	<u>0</u>	<u>124.0</u>	
<u>NQ</u>	<u>124.0</u>	<u>432.0</u>	

Assay Lab: Mine B-C Au + S.G

Certificate No's: _____

Started: _____ Completed: _____

Code	From	To	Recov.	No.	Unit	Description
1	10	14 16	20 22 24	26 28	30 34 35	
	10	13 4 5		11	#	TRICONED - NO RECOVERY
		3 7 9				
	11 12 14 5	11 12 15 5		12	#	O/B pebbles
		3 8 3				Small subrounded to rounded O/B pebbles. Largest pebble 1" ϕ . Minor traces of O/B mud/clay rec'd. 1.0' of small variably sized O/B pebbles rec'd.
	11 R 15 5	11 R 17 2		13	14 L	\bar{v} weathered
		3 8 8				\bar{v} soft + fissile, noncalcareous, white-grey, altered musc phyllite S ₂ surfaces are dull white-grey \bar{v} abundant white "talose" puder coatings Core \bar{v} broken in local clayey matrix near FOZ Recov. is good.
	11 R 17 2	11 14 16 4		4	15 18 B	(500) 70:30
		4 4 6				Very mixed unit of: light grey-green, PS ₂ laminated, calcareous musc + chl phyllite, light grey, green CS ₂ laminated \bar{v} calcareous chloritic phyllite - and pale green grey, PS ₂ banded calcareous chloritic phyllite - Sometimes referred to as "Green egg + bun" 70T - 133.4 is mud silt, CS ₂ tabular, light grey-green musc + chl phyllite (588) S ₂ surfaces are shiny, medium grey \bar{v} local pale green chl chds. containing abundant thin qtz + calcite laminae which commonly define lenticles. 133.4 - 139.3 same unit as above except CS ₂ laminated and less calcareous. qtz + cc laminations are thin, aligned // to S ₂ + are often discontinuous

CURRAGH RESOURCES INC.
Lithologic Log

Code	From		To		Recov.		No.		Unit		Description
	10	14	16	20	22	24	26	28	30	34	
											129.3 - 142.0 - same as highest 5BR level except gtz - calcite lithons better developed + more abundant. It is most soft pale grey-green, PSA laminated musc + chl phyllite. 140.5 - 140.6 is incidentally gouged along thin folia concordant fracture.
											142.0 - FOI is pale green-grey, chl > musc, PSA banded + laminated, moderately calcareous phyllite. Local thin bands defined by white-grey gtz + calcite. S ₂ surfaces are dull pale green-grey. (5D0)
											Contacts within this interval are gradational over a couple of inches. Contact in the underlying grey musc chl is sharp.
											Core is most broken, recov. is good
											141.8 - 142.0 folia concordant incipient gouge interval.
	11416	4	11512	8				15	15130	I 2 minor	
				416	9						Light grey, PSA laminated, most soft, most calcareous, musc. phyllite. S ₂ surfaces are sharp light steel-grey. Contacts local thin white-grey gtz + calcite laminae aligned // to S ₂ . Contact in higher 5D is sharp // to S ₂ . Bottom 1.5' is medium to dark grey due to more calcareous carbon on S ₂ . Bottom contact is gradational.
											707 - 151.7 is broken recov. good
											151.7 - FOI is broken along S ₂ recov. good.

Code	From		To		Recov.		No.		Unit		Description
	10	14	16	20	22	24	26	28	30	34	
	11513	8	11518	2				16	151316	2	
			1418	2							Noncalcareous, PS ₂ laminated, medium-dark grey, med-soft, med carbonaceous mass phyllite. S ₂ surfaces are shiny medium grey. Contains local thin ^{white} g ₂ siltstone laminae aligned // to S ₂ . Core in broken, recr, good - no fault.
	11518	2	11611	7				17	15196		
			1419	3							iv pale light green, PS ₂ laminated, noncalcareous, chl ₂ mass phyllite S ₂ surfaces are dull pale olive green. Contacts in higher + lower SB are sharp // to S ₂ . Contains local thin ^{g₂} laminations aligned // to S ₂ . S ₂ surfaces show local patchy tan-orange wet coatings. TOI - 159.9 is \bar{v} broken, recr, good. 159.9 - FOZ \bar{v} broken due to local fractures. Recr is good.
	11611	7	11613	5				18	151316	± 2	minor.
			1419	8							PS ₂ laminated, light grey to locally dark grey, noncalcareous mass phyllite. S ₂ surfaces range from light shiny silvery grey to medium shiny grey. Contains abundant thin white-grey g ₂ laminations // to S ₂ . Calcite infills local thin fractures. Local minor rust on fracture surfaces. Core in broken, recr, good. Top contact is against 2" thick foliaform magnetite g ₂ vein.

CURRAGH RESOURCES INC.
Lithologic Log

Code	From	To	Recov.	No.	Unit	Description
1	10 14	16 20	22 24	26 28	30 34 35	
	11613 5	11616 3		19	151B16 4	[4L0] (1000) 70:30
		1510 7				Pale cream-grey to locally dull light green-grey PS2 laminated, noncalcareous, altered musc + chl phyllite. S2 surface is light dull grey - local white powdery "talouse" coatings. Bottom 5" against sulphides contains abundant thin pale green chl laminations, developed // to S2. Bottom contact is sharp, // to S2. 165.4 to 166.0 is white foliiform permatitic Qtz vein. Core in broken, recy, is good
	11616 3	11712 0		110	141L1214	(4E8 + 1 minor + 1 trace) 65:45
		1512 4				TOI - 169.0 is thin, PS2 banded, noncalcareous, magnetic, massive psidic soft. Unit is moderately hard. Banding is generally 1-1 cm thick defined by local variations in interstitial over Qtz, + locally by thinner black magnetite bands. Pol occurs locally in small subrounded tan-orange rusted "clasts" core is locally slightly porous due to weathering of chl? Est. % Qtz 10-15%. Contains traces of sph in local thin bands aligned // to S2. Est Pb+Zn 2-3%. At 168.1 thin 4" band contains abundant paper thin micaceous folia developed // to S2. 169.0 - EOI is med soft, sulphide rich, noncalcareous altered musc phyllite. Contains locally abundant thin to locally thick bands of dominantly py, traces of sph + Gal + local traces of magnetite. S2 surfaces are creamy light grey. Top contact to 4E is discolored + highly broken

CURRAGH RESOURCES INC.
Lithologic Log

Code	From	To	Recov.	No.	Unit	Description	
1	10	14	16	20	22 24	26 28	30 34 35
							Bottom contact in massive 4E is also brecciated Est 7%
							S ⁺ 20-30% dominately Py. Est 16% Zn 2-4%
							70.1 - 169.2 in broken, recryst good.
							169.2 - 170.2 rubble, recryst good
							170.2 - FOI in broken, recryst good.
	11712.0	11718.2		111	14E10	±4 ± 6 trace BrA.	
		1543					
							Homogeneous, nonchalant, massive, fine grained py breccia top
							1.0' is large intact clast of thin, banded, high
							grade massive S ⁺ . Banding generally a few thick - defined
							by local concentrations of sph + gal + local minor clastic
							barite. Banding defines S ₂ .
							Remaining interval is dominately a barren, highly
							broken massive py breccia. Individual clasts are generally <
							1 cm φ, angular - in a matrix of fine, recrystallized py
							At 175.2, rubble contains local fragments of high grade
							massive py sulfides. Lower contact is brecciated + incipiently
							quartzed.
							Est Pb + Zn ranges from 2 to 10%.
							70.1 - 173.0 intact
							173.0 - 174.0 rubble + Br sand, recryst good.
							174.0 - 175.0 in broken, recryst good.
							175.0 - 176.5 rubble - recryst o.k.
							176.5 - FOI in broken, recryst good.

CURRAGH RESOURCES INC.
Lithologic Log

Code	From		To		Recov.		No.		Unit		Description
	10	14	16	20	22	24	26	28	30	34	
	11718	2	11916	0			112		141410		
			1519	7							Cream-grey, med soft to locally \bar{v} soft, variegated, PS ₂ laminated altered musc \rightarrow chl phyllite S ₂ surfaces range from creamy dull white near local fractures + gorge intervals to dull light grey. Contains local minor development of thin pale green chl in thin PS ₂ laminations.
											101 - 179.5 med broken - incipiently gossed + gossed
											179.5 - 180.2 Pinky - cream white gorge + kaol 3" conc lens
											180.2 - 185.1 in broken, very good
											185.1 - 186.6 \bar{v} broken due to steep fracture - very O.K.
											186.6 - 193.2 \bar{v} broken, very good.
											193.2 - 195.1 \bar{v} broken - incipiently gossed + brecciated very O.K.
											195.1 - FOT \bar{v} broken, very good.
	11916	0	121010	7			113		151248		(4L0) 95:5
			161	2							Dominant unit is featureless, thin, PS ₂ laminated, \bar{v} soft, cream-tan, very altered, fine grained ^{massive} dolomite phyllite. S ₂ surfaces are dull cream-tan. Contains local traces of fine py ⁹⁺ in bedding local thin fractures.
											198 - 198.3 is altered \bar{v} soft + gossed, white grey altered musc phyllite. Contacts with SD4 are sharp, // to S ₂
											Bottom contact w lower SD4 is also sharp, // to S ₂ . Conc in broken, very good. Parent likely a metabasite however no bright green "fuchsite" is visible.

Code	From		To		Recov.		No.		Unit		Description
	10	14	16	20	22	24	26	28	30	34	
	1210	P 7	1211	12 5			114		1513	16 ± 4	
				16 4 B							
											Light grey to locally white-grey, mud soft to locally v soft, noncalcareous, locally altered musc phyllite Unit is PS2 laminated - contains locally abundant thin g ⁺ calcite laminae defining S2. Unit is locally gouged & brecciated, unit is locally altered "bleached" near these local faults. S2 ranges from light shiny grey to dull white-grey near faults.
											201-202.3 v broken, very good
											202.3-202.7 incipiently gouged & brecciated, very good. v broken
											202.7-204.9 v broken, very O.K.
											204.9-205.8 v broken, incipiently gouged & brecciated. very good
											205.8-209.5 in broken, very good
											209.5-210.3 incipiently gouged & brecciated
											210.3-211.5 in broken, very good
											211.5 - FOT incipiently gouged & brecciated - gouge cone is below concordant. v broken, very good.
	1211	12 5	1211	16 0			115		1513	16	
				16 5 B							
											Medium grey, mud soft, dominantly PS2 laminated, noncalcareous, musc phyllite Contains local thin litters defined by g ⁺ calcite laminae. S2 surfaces are shiny medium grey. Calcite in hills local minor thin fractures.
											201-213.0 rubble 0.2' cone loss.
											213.0-213.2 fully concordant gouge
											213.2 - FOT in broken, very good

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Lithologic Log

Code	From	To	Recov.	No.	Unit	Description
	10 14	16 20	22 24	26 28	30 34	35
	12116	12131	1	116	51B10	
		1617	4			Medium grey, v calcareous, dominantly PS2 laminated, mud soft mass phyllite. Appears similar to #15 except contains abundant thin qtz + calcite siltstone laminae aligned // to S2. Locally these laminations define lithons S2 surfaces are shiny medium-grey.
						70E - 216.6 m broken along S2, recov good
						216.6 - 217.2 v broken, with local incipient folia concordant gouge recov good.
						217.2 - 218.7 m broken, recov good
						218.7 - 80E v broken along S2 foliation, recov good.
	12121	12150	2	117	51D10	(5B8) 90:10
		76	3			A mixed unit of dominate PS2 banded, v calcareous, pale green-grey chloritic phyllite in thin ^{bands of} CS2 laminated light green-grey chl slightly, ? mass moderately calcareous phyllite
						SD contains abundant qtz + calcite siltstone bands ranging up to 1 cm thick + define S2 locally, these bands define S1. S2 surfaces are dull pale light olive green.
						Interbedded w SD at 237.2 - 237.8 ; 239.3 to 239.9 + 241.5 - 241.8 are thin intervals of pelitic origin? Bands have margins which are sharp, // to S2, are CS2 foliated, pale green-grey chl + mass phyllite. Lithons are defined by thin qtz + calcite laminae.

Code	From		To		Recov.		No.		Unit		Description
	10	14	16	20	22	24	26	28	30	34	
											70E - 222.2 v broken, local incipient folia - concordant gouge
											221.6 - 221.7, 0.5' conc. base.
											221.7 - 234.3 in broken, very good
											234.3 - 236.5 v broken due to steep fracture, very good.
											236.5 - 237.2 incipient gouge + bxA in broken, very OK.
											237.2 - FOT in broken, very good.
	121510	2	121517	2				1118		1414	GOUGE + BxA
				7B	4						70E - 251.7 creamy white phyllite mud gouge, marginal lost in rubble 1.1' spread out recovered
											251.7 - FOT v soft, altered, white-grey, musc + sericite, highly broken, phyllite breccia + incipient gouge Major fracture 12° to core axis.
											251.7 - 252.3 rubble, 0.6' rec'd
											252.3 - 253.3 v broken phyllite bxA + incipient gouge. 0.7' rec'd.
											253.3 - FOT phyllite rubble 1.1' rec'd
											Part of a major fault
	121517	2	121613	5				1119		15A	GOUGE + BxA
				1810	3						Highly broken, v soft, black carbonaceous phyllite gouge + breccia.
											70E - 258.2 is highly broken + fissile, incipiently gauded SA breccia. Contains local thin hematite gls + a siliceous laminae. very good
											258.2 - 261.0: highly broken v soft, black SA flaky gouge.

Code	From		To		Recov.		No.		Unit		Description
	10	14	16	20	22	24	26	28	30	34	
											Revy is good considering core conditions.
											Remaining interval is highly broken, very silty, gouge, black carbonaceous phyllite BxA 1.3' core rec'd.
	12163	5	12173	9			1210		151A16	BxA (5A61) BxA 98:2	
			182	2							Mud salt, highly broken, noncalcareous, black carbonaceous phyllite breccia + minor incipient gouge. Bottom contact with massive S= is sharp 10° to core axis.
											TOE - 266.0 v broken, local incipient BxA 2.5' rec'd.
											266.0 - 269.0 rubble - BxA + gouge 2.1' rec'd
											269.0 - 271.4 v broken - incipient BxA very o.k.
											271.4 - FOT rubble - BxA + GOUGE. Last 4" of unit is v hard, siliceous, carbonaceous, noncalcareous, black, gta-like breccia fragment within SA phyllite breccia. 1.8' screened out rec'd
	12173	9	12179	5			1211		141G10	± BxA	
			1815	2							Thinly bedded, noncalcareous, moderately fissile, massive pyritic S= banding defined by local concentrations of saline gal + lesser Ba. Banding, generally 1/2 in thick & defines S2. Top and bottom 1 1/2" are incipiently brecciated. Breccia comprised of small non isolated angular clasts of massive fine py in matrix of recrystallized fine py CCC barite.
											TOE - 274.5 v broken, very good incipiently brecciated.
											274.5 - 276.6 v broken, very good

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Lithologic Log

Code	From	To	Recov.	No.	Unit	Description
1	10	14	16	20	22 24 26 28 30 34 35	
						276.6 - FOI \bar{v} broken, locally incipiently brecciated, recy, good. Est Pb+Zn 8-10%
	121719 5	121810 5		1212	14A10	Incipiently Brecciated Mod. hard, micaceous, black, ribbon brecciated, brown, carbonaceous qtzite Ribbon brecciated - cemented by py = interstitial white-grey qtz. Breccias highly disrupted due to constant faulting. Unit is very broken. S ₂ surfaces carbon black. Est % Pb 8-10% Est Pb+Zn c 2%
		1815 5				105-280.0 rubble recy good 280-FOI \bar{v} broken due to fracturing, recy, good.
	121810 5	121916 1		1213	151A16	Mod soft to locally very soft, black, dominantly P _{S2} foliated, micaceous carbonaceous phyllite. S ₂ surfaces range from dark grey to black Carbon content increases gradually, moving down the hole. Contains local minor lithons defined by thin qtz laminae. S ₂ surfaces slightly marked fissures near FOI - strongly marked fissures at FOI 102 - 282.5 in broken, recy, good. 282.5 - 282.5 contains 3 1/2 cm pale green, thin, laminated tubular bands aligned // to S ₂ . 282.5 - 286.2 \bar{v} broken, 2.1' rec'd, contains local gouge - incipient breccia. 286.2 - 288.5 rubble due to steep faulting, recy, good 288.5 - 292.3 in broken, recy, good.

Code	From		To		Recov.		No.		Unit		Description
	10	14	16	20	22	24	26	28	30	34	
											292.3 - 292.5 Impregnated gauge rubble, recry O.K.
											292.5 - 293.5 in benches, recry good.
											293.5 - FOI incipient Bx A + local minor gauge. Core is rubble, recry good.
	131916	1	131016	2			1214		141E10		Bx A ± Porous ± Sand
			1913	3							101 - 300 massive, barren py sand + rubble, 0.6' rec'd.
											300 - FOI is highly broken, locally porous, barren, brass-yellow, massive py breccia. Individual clasts are angular, range up to 5cm φ + locally rotated - clasts supported in fine grained re-crystallized massive py. Ratio of clasts: matrix is 70:30. Core locally porous due to weathering of carbonate in Dundee Unit is nonconformity.
											Est Pb + Zn ± 2%
											101 - 300 sand + rubble, 0.6' rec'd.
											300 - 304.0 is broken, local rubble, recry O.K.
											304.0 - 305.0 rubble, recry O.K.
											305.0 - FOI is broken, local rubble, recry O.K.
	131016	2	131111	8			1315		151D14*		(4E0 ± Bx A) 70:30.
			1915	0							Dominant unit is a micaceous, buff, calc-tuff- tan green, P.S. laminated, ankeritic, silty chert-like phyllite. Near 70I, local minor small bright green "Kieckhefer" spots visible. When powdered, effervesces slightly in 20% HCL.
											Interbedded in this unit at 307.0 to 308.0

CURRAGH RESOURCES INC.
Lithologic Log

Code	From		To		Recov.			No.			Unit			Description
	10	14	16	20	22	24	26	28	30	34	35			
														and 308.5 to 309.9 is fine grained, incipiently brecciated, brown, noncalcareous massive pyritic S ² . Massing is 50% highly fractured + brecciated.
														TOE - 308.0 rubble, very o.k
														308.0 - FOE in broken, very o.k
	1311	11	8	1312	12	7			1216	141	14			± 1 minor ± 7 minor
														yellow-brown, mud hard, poorly bonded, noncalcareous, massive pyritic S ² . Banding defined by local concentrations of red brown sph + gal and local interstitial gray qtz. Banding ranges on a scale up to 5cm thick, is diffuse, + local, defines ^{at least 2} phase 2. Part mass. Near FOE, unit is incipiently brecciated. Last 5" is highly fractured massive brown. Po has been re- mobilized into local fractures in ^{higher} massive py sulphides. Est Pb + Zn 6-8%?? Core slightly broken, very good. No visible oxidations (are caused, may due to weathering out of carbonate in local fractures. Est % Qtz ≈ 10-12%
	1312	12	7	1313	13	6			1217	151	14	6		BxA + Gouge (5A6 Gouge) 80:20
														Dominately V broken + fractured, light white-grey, mud soft to very soft altered mass phyllite breccia + flakey gouge. Unit is noncalcareous. Contains local Po infilling fractures near top contact in higher massive S ² .
														TOE - 325.5 in broken, incipiently brecciated 5B46

Lithologic Log

Date: SEPT 29/88 Logged By: CUR

Code	From		To		Recov.		No.		Unit		Description	
	10	14	16	20	22	24	26	28	30	34		35
											325.5 - 327.0	Flakey, block, micaceous, carbonaceous phyllite gouge + breccia zone is visible + gouge. 1.5' spread out rec'd
											327.0 - 329.0	light white grey, incipiently gouge + brecciated altered mass phyllite. zone is broken, soft & fissile very good.
											329.0 - FOT	highly broken, incipiently ^{+ gouged} brecciated, 5.7564 rubble. 2.3' spread out rec'd
	1313	6	1316	18	6		1218		1518	16	+4 [360+4] (4L GOUGE)	
												Dominant unit is a light grey, moderately carbonaceous, P32 laminated, micaceous mass phyllite. S2 surfaces are light silty grey. Locally near upper + lower contacts in major faults, unit is "bleached" to a light white-grey. S2 surfaces also lighter dull grey. Unit contains abundant thin fractures containing minor incipient gouge.
											343.2 - 342.8	is cream-white phyllite mud gouge. Margins of gouge zone lost in rubble
											FOT - 337.2	in broken, very O.K.
											337.2 - 343.8	rubble + local gouge 3.8' rec'd.
											343.8 - 348.4	in broken, very good.
											348.4 - 350.1	in broken, minor incipient gouge 1.8' rec'd.
											350.1 - 354.5	in broken, very good
											354.5 - 355.5	rubble - red run - very good.
											355.5 - 360.0	in broken very good

CURRAGH RESOURCES INC.
Lithologic Log

Code	From		To		Recov.		No.		Unit		Description
	10	14	16	20	22	24	26	28	30	34	
											360.9 - 364.0 - \bar{v} broken, recipient gauge + Bx A. 2.1' rec'd
											364.0 - 367.5 \bar{v} broken, rec'd O.K.
											367.5 - FOI rubble 0.7' rec'd
	1316	186	1317	115			1219		41L		GOUGE + Bx A
			111	132							Crown-white, highly altered, is soft + friable, flakey, musc + sericite gouge + breccia. Remnant P52 foliation trends nearly \parallel to core axis. Foliation surfaces X cut by numerous, spaced fractures trending $\approx 50^\circ$ to core axis. Margins of 4L gouge + Bx A zone lost in rubble. Core recovery is good.
	1317	115	1410	190			13P		131G10	± 9	[5B6 ± 2] (5D4*) True (1000) minor
			112	147							Dominant unit is medium to local dark grey, moderately carbonaceous, dominantly P52 laminated, arenaceous, musc + ccc chl phyllite. Contains local thin pale green chl laminae developed at margins of local carbonaceous thin g/lz veins. S ₂ surfaces are light to medium shiny grey. Unit slightly altered near local thin fractures + local thin recipient gouge intervals. Unit is black - local thin intervals 404.0 - 405.2 is pale green altered chloritic phyllite interval. Within this band is 3" thick fracture infilled with massive P0? P ₂ . S ₂ surfaces of 5D4 band are dull cream-green. Otherwise: slightly more powdered + altered in 20% HCl. 374 - 375.1 is highly fractured and broken, argillitic g/lz vein.

CURRAGH RESOURCES INC.
Lithologic Log

Code	From		To		Recov.		No.		Unit		Description
	10	14 16	20 22 24	26 28	30	34 35					
											101 - 372.7 in broken, very good
											372.7 - 376.0 rubble, 3.7' rec'd. unit irregularly gauged + brecciated at margins of gte vein
											376.0 - 386.6 in broken, very good
											386.6 - 401.0 rubble in local minor irregular gauge + by 1. 9.7' rec'd. spread out
											401.0 - 501 in broken, very good
	141019	0	141150	0			1311	131619			[5B62]
			112165	5							Dark grey, med. carbonaceous, micaceous. P_{S2} laminated musc. phyllite (contains local, minor thin gte silty zone laminae aligned // to S_2 . S_2 surfaces dull-dark grey to black. Core in broken, very good.
	141150	0	141212	2			1312	141111	37	(4L0)	60:40
			112187	7							4L unit is a \bar{v} silt, P_{S2} laminated, pale light grey-green altered musc. schist phyllite. S_2 surfaces are dull light grey in slight green aspect. Phyllite is micaceous.
											Within 4L from 417.2 - 431.0 is highly fractured + broken, moderately weathered, in hard semi-massive pyritic S^+ . Banding is poorly developed + highly disrupted due to abundant thin fractures. Banding is defined by \bar{v} fine dark grey interstitial gte + local less P_0 . No visible S_{14} or S_{15} . Fracture surfaces show local patchy rust. Margins in 4L lost in rubble. Est % gte 15-20%

CURRAGH RESOURCES INC.
Lithologic Log

Code	From	To	Recov.	No.	Unit	Description						
1	10	14	16	20	22	24	26	28	30	34	35	
											201-417.2	∩ soft - simile 4L 0.6' rec'd.
											417.2 - 421.0	rubble - 2.0' rec'd.
											421.0 - EOT	∩ broken, rec'y O.K
	141212	2	14215	0			1313			1414	GOUGE	
												Soft, unconsolidated, platy, cream-grey mud gauge margins not rec'd. Recovery is ∩ poor - Only 0.3' rec'd.
	14215	0	14312	0			1314			1316	19	[5A62] (1000)
												Highly broken & locally fractured, mud soft, dark grey to black micaceous carbonaceous pyritic. Appears similar to #31. Unit is PSA Finland, contains local minor thin g/lz siltstone laminae // to S ₂ S ₂ surfaces are dull dark grey to black & weakly mark fingers. 425.3 - 426.0 is white pag. g/lz vein. Margins of vein are slightly brecciated. 427.0 - 427.5 is sandy O/B conc. Conc ∩ broken rec'y good. Minor irregular gauge + brk. From 431.7 - EOM. Unit slightly "bleached" near this zone.
												EOM

DIAMOND DRILL CORE LOG

Date: SEPT 23/88

Hole Number: 88G-04

Reference Fabric Orientation Diagram:

Project: Grum 1988 Drilling

Location: Grum Deposit

Claim: _____

Terr. Plane Co-ords.: 6904753.11 N

6,089.73N

592495.02 E

2,686.56E

Grid Co-ords: 64W. 2.5N

Elevation: 1268.32

All symmetry determinations looking

Total Depth: 334.0 ft. (101.8m)

NW with S2 dipping

Inclination: -90° Vertical

SW with dip azimuth _____.

Purpose: Reserve Definition Drilling

Reason hole Terminated: Drilled to target depth - Drilled into vicinity of underground holes.

Logged by: C.V. Ruel

Date(s) Logged: Sept 23, Sept. 23

Drilling Contractor: Archie Diamond Drilling

Hole Cemented: N Steel down Hole: N

Size	CORE From	To	Collar Cased and Capped: <u>N</u>
<u>NW</u>	<u>0</u>	<u>121.6</u>	
<u>NO</u>	<u>121.6'</u>	<u>334.0'</u>	

Assay Lab: Mine B-C for Au S.G.

Certificate No's: _____

Started: _____ Completed: _____

Core Code	From				To				Recov.				No.				Unit	Description
	10	14	16	20	22	24	26	28	30	34	35	10	14	16	20			
L	10	0	11211	6					11					11A	TRICKED - NO RECOVERY			
L	11211	6	11218	0					12					11A	O/D TILL + BOULDER FRAGMENTS. Dominately small re-chipped 10AB gravel with O/D boulder fragments. Largest fragment rec'd is 6" long. Also rec'd are small subrounded O/D pebbles, generally < 2cm d 121-123.0 1.6' O/D pebbles + granitic boulders rec'd. 123.0-138.0 1.9' " " " " " Near Bedrock interface is 1-3" long green list grey, slightly rusted, fine grained gtzite.			
L	11218	0	11410	0					13					14L	Extremely weathered + rusted. Rust-orange, extremely fissite, extremely weathered + iron oxidized micaceous phyllite. Unit is micaceous ps. tabular 1.8' of clay rubble rec'd			
L	11410	0	11414	6					14					15B 64	GOUGE v soft, medium grey to locally cream white, greasy, flake, gouge. Brittle 4" sawse against psitic quartzite is bleached to whitish-cream color. Margins of gouge not recovered. 1.2' gouge recovered.			
	11414	6	11417	0					15					14C 13	" Micaceous" Mod hard, noncalcareous, psitic banded quartzite Contains abundant thin micaceous foliations developed // to S2			

Code	From		To		Recov.		No.		Unit		Description
	10	14	16	20	22	24	26	28	30	34	
											define S ₂ near TOI, one 2 cm subrounded black "clast" of 4A0. Contains local micaceous thin P ₂ bands containing interstitial fine grained grey qtz. Slight patchy rust on fracture surfaces. Est Pb+Zn 18-19% SpH > Gal. Remaining interval is P ₂ banded, moderately carbonaceous, aspidic quartzite Top 1.2' contact w 4E4 is extremely SpH rich. SpH content decreases rapidly. Last 1.6' of interval is barren. S ₂ surfaces are dull medium grey-brown. Est % Pb 20% Est % Pb+Zn 6-8% SpH > Gal. TOI - 186.0 m broken, very good 186.0 - 187.0 m broken due to steep fracture - very good 187.0 - FOI m broken, very good.
	11818	0	11920	0			111		14K12		Moderately weathered Highly broken & fractured, mod salt cementation, P ₂ banded, altered mus + chl phyllite. Overall colour is dull light grey-green. Contains local thin siliceous & bands of qtz + fine py. Est % Pb 3-5% Fracture surfaces have abundant patchy orange rust coatings. Local micaceous thin bands of incipient gouge developing along thin fractures. Core is broken, Recov. O.K.
	11912	0	12127	1			112		14A10		Barren, hard, P ₂ foliated, noncalcareous, ribbon banded, carbonaceous quartzite. Ribbon banding ranges from 1/2 cm

CURRAGH RESOURCES INC.
Lithologic Log

Code	From		To		Recov.		No.		Unit		Description
	10	14	16	20	22	24	26	28	30	34	
											to 6 cm thick + defines S ₂ + locally S ₃ Banding is defined by fine py + interstitial fine grey-white qtz. Unit is locally highly fractured. Fractures have been locally weathered out to give core a locally rough texture. S ⁵ Banding 25-30% of unit volume. Est % Py 15-30% Est % Ph ₂ O ₃ <2% No visible weathering
											701-197.2 rubble due to fracturing. Recv good.
											197.2-216.8 in broken, very good
											216.8-222.4 in broken due to fracturing. Recv good.
											222.4-FOI rubble + fractured. No cement. 0.9' rec'd.
	12127	1	121416	0			113		111	14	+6 Porous weathered hard hard, nonconformable, locally porous + brittle, shaly layered, massive pyritic S ⁵ . Banding bands nearly parallel to core axis + defined by local concentration of qtz + gal + lesser bar. Top 3' of unit is slightly fractured. Local minor white powder oxidation coatings on fracture surfaces.
											Est Ph ₂ O ₃ 8-10%
											701-231.1 in broken, very good.
											231.1-232.4 rubble - end run - very good.
											232.4-235.6 in broken, very good.
											235.6-237.0 rubble - end run - very good.
											237.0-FOI in broken, very good.

CURRAGH RESOURCES INC.
Lithologic Log

Code	From				To				Recov.				No.				Unit	Description
	10	14	16	20	22	24	26	28	30	34	35	10	14	16	20			
																	and defined by abundant near brown sph + less Py. Banding also locally defined by medium grey, fine grained qtz. Texturally - the unit appears to be a sulphide flocculated qtzite. Sulphide content is in the 75% range. Est Pb+Zn 14-16%. Unit locally slightly porous due to weathering of carbonate Core intact - very good - No results	
	12715	0	12717	2								117	14A	13	14	4	<p>̄ high grade, sulphide rich, ribbon banded carbonaceous qtzite. Unit is locally (S₂) banded. S = banding generally defines S₂. Banding defined by dominant sph, lesser Py & minor Gal. Banding is generally thin, < 1 cm, 1 local py band 5 cm thick. Banding is 70% to 35% of unit volume. S₂ surfaces dark - grey to black. Margins of 4A band // to compositional banding. Est Pb+Zn 12-14% Sph >> Gal Core intact recovery good</p>	
	12717	2	13134	0								118	14A	10			<p>(5(4x) trace. ̄ hard, locally (S₂) banded, barren, ribbon banded carbonaceous qtzite. Bands range from 1 to 15 cm thick & define S₂ - locally define S₁. Bands consist of dominant fine py & lesser, interstitial fine grey qtz. Py content decreases moving down the hole. Unit is locally highly mineralized. Includes some small calcite.</p>	

ASSAY LOG (SAMPLER'S COPY)

CODE	FROM	TO	SAMPLE	INTR.	REC (m)	UNIT	DESCRIPTION						
10	14	16	20	22	26	28	30	32	34	36	40	42	
	44.1	44.8											
	111414	111417			116181815	124	125	141	143				"Miscellaneous"
	55.9	56.8											
	111813	111816			116181816	128	128	141	144				"Miscellaneous"
	57.3												
	111816	111818			116181817	117	127	141	144				
	58.5												
	111818	111912			116181818	140	136	141	142				
	59.7												
	111912	111916			116181819	140	146	141	140				
	61.8												
	111916	121011			116181910	132	157	141	140				
	62.8												
	121011	121016			116181911	150	152	141	140				
	64.3												
	121016	121110			116181912	146	150	141	140				
	65.7												
	121110	121115			116181913	149	160	141	140				
	67.4												
	121115	121211			116181914	153	158	141	140				
	69.2												
	121211	121217			116181915	161	123	141	140				
	70.7												
	121217	121312			116181916	149	147	141	144				±6 Porous
	72.2												
	121312	121317			116181917	150	149	141	144				±6 "
	73.5												
	121317	121411			116181918	143	141	141	144				±6 "
	75.0												
	121411	121416			116181919	147	148	141	144				±6 "
	76.2												
	121416	121510			116191010	143	145	141	1610				Porous
	77.6												
	121510	121514			116191011	144	146	141	1610				Porous
	78.9												
	121514	121518			116191012	142	152	141	1610				Porous
	80.2												
	121518	121613			116191013	142	144	141	1610				Porous
	81.4												
	121613	121617			116191014	139	143	141	144				Porous
	82.4												
	121617	121710			116191015	135	139	141	144				Porous
	83.8												
	121710	121715			116191016	145	147	141	144				
	84.5												
	121715	121717			116191017	122	126	141	144	147			
	86.0												
	121717	121812			116191018	148	150	141	144	140			
	87.5												
	121812	121817			116191019	150	150	141	144	140			
	89.0												
	121817	121912			116191110	150	172	141	144	140			
	90.5												
	121912	121917			116191111	150	160	141	144	140			
	92.0												
	121917	121012			116191112	150	159	141	144	140			
	93.6												
	131012	131017			116191113	150	163	141	144	140			
	95.1												
	131017	131114			116191114	149	156	141	144	140			
	96.1												
	131114	131115			116191115	133	135	151	1614	*			
	97.2												
	131115	131119			116191116	138	147	141	144	140			
	98.8												
	131119	131214			116191117	150	165	141	144	140			
	100.3												
	131214	131219			116191118	150	174	141	144	140			
	101.8												
	131219	131314			116191119	150	155	141	144	140			

TRY TO SAW!

FOH

Code	From			To			Feature	E N	S ₀		S ₁		S ₂		Description	
	10	14	16	20	22	24			26	28	32	34	38	40		44
				44.5												
				11416	0	PIS12								218		Banding in 4C3
				49.4												
				11612	0	PIS12								311		Micaceous Foliation
				53.3												
				11715	0	PIS12								414		" "
				56.5												
				11815	5	PIS12								615		Banding in 4D.
				60.5												
				11918	5	PIS12								710		Carbamaceous Foliation
				65.5												
				12115	0	PIS12								615		" "
				70.4												
				12121	0	PIS12								215		Banding in 4E
				73.8												
				12142	0	PIS12								019		Banding in 4E
				76.5												
				12151	5	PIS12								410		" " 4G
				80.8												
				12165	0	PIS12								410		" " "
				86.3												
				121813	0	CIS12				10				85		S ₂ fold hinge defined by S ₁ p band.
				89.9												
				121915	0	PIS11								411		Carbamaceous Foliation
				90.5												
				121970	0	CIS12				45	010	10		718		Carbamaceous Foliation
				93.6												
				131070	0	CIS12				218	11810			616		" "
				96.6												
				131170	0	CIS12				42	11810			515		" "
				98.0												
				131215	5	CIS12				23	11810			410		" "
				99.1												
				131215	0	CIS12				610	11810			710		" "
				100.4												
				131219	5	CIS12				23	11810			615		" "
				101.6												
				131313	4	CIS12				3R	11810			610		" "

~~FOH~~

DIAMOND DRILL CORE LOG

Date: SEPT 27/88

Hole Number: BBG-05

Reference Fabric Orientation Diagram:

Project: Grum Summer 1988

Location: Grum Deposit

Claim: _____

Terr. Plane Co-ords.: 6904680.04 N

5,969.49 N

592591.00 E

2,696.96 E

Grid Co-ords: 60.0 W 3.0 N

Elevation: 1275.45

All symmetry determinations looking

Total Depth: 442.0 ft 134.7m

NW with S2 dipping

Inclination: -90° (Vertical)

SW with dip azimuth _____.

Purpose: Reserve Definition

Reason hole Terminated: Drilled to targeted depth into footwall

Logged by: C.V. Reed

Date(s) Logged: Sept 27, Sept 28

Drilling Contractor: Arctic Diamond Drilling

Size	CORE From	To	Collar Cased and Capped: <u>N</u>
<u>NW</u>	<u>0</u>	<u>201</u>	
<u>NQ</u>	<u>201</u>	<u>442.0</u>	

Hole Cemented: N Steel down Hole: N

Assay Lab: Mine B-C Ave + S.G.

Certificate No's: _____

Started: _____ Completed: _____

DDH 886-05
2 8

CURRAGH RESOURCES INC.
Lithologic Log

Page 03 of 01

Date: Sept 27/84 Logged By: W.R.

Code	From		To		Recov.		No.		Unit		Description
	10	14	16	20	22	24	26	28	30	34	
		10		17	5				V	#1	TALKED - NO RECOVERY
				52	0						
		17	10	5	12	10	11		R	#1	O/B TILL + O/B granitic boulder fragments.
				6	13						
											Dominately small red-dotted O/B sand + O/B boulder fragments in short local intervals of soft green mudstone clay rec'd. 171.0 - 171.5? 5" of sand recovered. Largest boulder fragment is 3" long. Local small white quartz pebbles also recovered.
											* 70% - 171.0 0.6' small rounded pebbles rec'd.
											171.0 - 177.0 1.2' O/B sand + small O/B boulder fragments rec'd.
											177.0 - 182.0 - small red-dotted O/B granitic fragments + minor O/B sandy till sledge rec'd.
											182.0 - 183.0 0.8' of O/B med till rec'd.
											183.0 - 184.0 " " " " " "
											184.0 - 188.0 1.5' O/B med till + 2" granitic O/B pebble fragment rec'd.
											188.0 - 192.0 0.4' red-dotted O/B pebble fragments + minor O/B sandy till rec'd.
											192.0 - 196.0 0.5' med till rec'd.
											196.0 - BOT 1 2" red-dotted O/B granitic pebble fragment rec'd.
											* All recovery measurements are between two markers in core box.

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CURRAGH RESOURCES INC.

Lithologic Log

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Code	From		To		Recov.		No.		Unit		Description
	10	14	16	20	22	24	26	28	30	34	
											Banding contains local traces of sph. No visible oxidation.
											Est % Py 20-25% Est PhZn 42%
											70I - 214.6 Rubble, recr. o.k.
											214.6 - 219.2 \bar{v} broken, recr. o.k.
											219.2 - FOI Rubble 0.6' spread out local
	1212	10	0	1213	12	4			16	14D14	
											\bar{v} hard, thin, banded, calcareous, pyritic quartz. Banding
											is defined by dense, py. lesser sph + local minor interstitial
											white-grey, qtz. Banding defines S ₂ \bar{v} is 30-40% of
											unit volume. Bands range up to 6 cm thick. Banding locally
											define phase \bar{v} fold zone at 223.5.
											Est PhZn 10-13% Est % Py 25-30%
											70I - 220.5 Rubble 0.2' rec'd.
											220.5 - 228.8 \bar{v} broken due to steep fractures, recr. o.k.
											228.8 - 231.1 Rubble due to steep fractures, recr. o.k.
											231.1 - FOI \bar{v} broken, recr. good.
	1213	12	4	1213	19	0			17	14D14	5
											Sph rich, \bar{v} hard, thin, ^{PS2} banded, locally slightly calcareous.
											pyritic quartz. Banding is up to 4" thick + defined
											by abundant red-brown sph + lesser disc py. Contains
											local thin calcareous folia developed // to S ₂ .
											Banding is 60% of unit volume
											Est % PhZn 20-22% Est % Py 20-25%
											Core in broken, recr. good. No visible weathering.

CURRAGH RESOURCES INC.
Lithologic Log

Code	From	To	Recov.	No.	Unit	Description	
1	10	14	16	20	22 24	26 28	30 34 35
	121319	0	121412	9	18	141014	±7
			7140				
							PS ₂ blocky, high grade, locally magnetic, micaceous shales.
							Bandings is \bar{v} steep, nearly \parallel to core axis. Bandings is generally
							42" thick defined by dominant p ₁ , lesser scale laminae, +
							varying amounts of fine grained intertidal clay, q ₁ to 241.4 to
							FOI, banding is defined by dominant P ₀
							Est % P ₁ -P ₂ 10-10% Est % P ₃ 30-25% Est % P ₀ 8-
							10%
							FOI - 240.1 core in broken, very good
							240.1 - FOI core intact.
	121412	121415	0	19	151014	6	[4LO]
			7147				
							\bar{v} soft, locally incipiently gaseous, PS ₂ foliated, light
							grey to locally cream-grey, altered musc > chl phyllite.
							Unit is highly fractured, fractures have developed S ₂ - S ₂
							surfaces are dull creamy-grey. Local chlorite occurs in
							thin laminations developed \parallel to S ₂ . Top margin of SB band
							is brecciated + porous due to weathering of carbonate in
							fractures. Unit is micaceous.
							Core is broken, very O.K
	121415	0	121510	0	110	151016	
			7162				
							Dark grey to black, PS ₂ foliated, micaceous, carbonaceous
							phyllite. Contains best micaceous incipient breccia S ₂ surfaces
							are dull carbon black. Top margin lost in rubble - broken
							contact sharp \parallel to S ₂

CURRAGH RESOURCES INC.
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Code	From		To		Recov.		No.		Unit		Description
	10	14	16	20	22	24	26	28	30	34	
											701-247.8 Rubble, heavy o.k.
											247.8-507 \bar{v} broken, 2.6' acid
	121510	0	121513	4			111		151514	6	[4L0]
				770							Appears similar to #9 \bar{v} soft, pale cream grey, micaceous altered muscovite phyllite. Thin intervals of cream colored musc. gouge at 250.9 - 251.0 + 252.4 - 252.6. Bottom 5" of unit against 4D is gouged + brecciated
											701-252.0 \bar{v} broken, heavy good
											252.0-502 rubble + gouge
	121513	4	121516	6			112		141217		
				782							\bar{v} hard, thin, banded, micaceous, possibly muscovite, quartzite. Banding is defined by dominant P_2 , lesser P_0 + minor S_2 + S_0 . Banding is generally 1-2" thick + defines S_0 laminae. Best development of paper thin micaceous lamina along S_0 . Top 1' of unit is highly broken + brecciated. No visible weathering.
											701-253.6 rubble heavy o.k.
											253.6-507 INTACT.
											Est Ph_2 4-6% Est P_0 30-35%
	121516	6	121519	9			113		141214		(4A44) 80:20.
				792							Dominant unit is a sph. rich, \bar{v} hard, micaceous quartzite. Unit is P_2 banded - banding defined by abundant red-brown sph in diss. fine py. Banding is \bar{v} steep nearly

CURRAGH RESOURCES INC.
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Code	From		To		Recov.		No.		Unit		Description
	10	14	16	20	22	24	26	28	30	34	
											<p>// to core axis. Appears to be at least 3 fold hinges defined by sulphide bands. Winding through 4D is thin? highly fractured, spin ribbon banded carbonaceous gtzite. Locally, fractures have weathered out to form deep wags. Actual thickness of 4A band difficult to determine because it was only intersected near fold noses. Band occurs three times in core intervals of 4" to 6" thick. 4A bands are red-brown + black PS₂ sph banded. Banding generally <2" + contains fine dark py. S₂ surfaces are dull carbon black.</p> <p>Est Ph₂Zn 16-18% Sph → Gal Est % Py 15-18%.</p> <p>Core is broken 3.6' rec'd</p>
	121519	9	12176	3			114		14D13		<p>Very hard, highly fractured + locally incipiently brecciated, thick, banded gtzite. Banding ranges up to 8" thick + defined by dominant py + interstitial fine grey gtzite. Local thin bands generally 1 cm thick contain concentrations of sph + lesser gal. Banding defines S₂. Top 1.5' is brecciated + locally porous due to weathering of carbonate in fractures. 274.3 to EOT is also incipiently brecciated + porous due to weathering of carbonate in fractures. Fracture surfaces show local tan-yellow weathering coating. Cut surface is fresh.</p> <p>Est Ph₂Zn 4-5% Sph → Gal Est % Py 30-40%</p> <p>702 - 266 5 Rubble 4.4' rec'd</p>

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2 8CURRAGH RESOURCES INC.
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Code	From		To		Recov.		No.		Unit		Description	
	10	14	16	20	22	24	26	28	30	34		35
											266.5-271.5	√ Broken due to steep fractures 4.6' rec'd.
											271.5-274.1	in Broken, very OK.
											274.1-275.2	rubble due to steep fractures, very OK.
											275.2-50'	in Broken, very good.
	121716	3	121911	5			115		141410		[5B46] (10Q0) (5AG) BS: 10:5	
				1888								Highly mineral unit of dominantly SL in local thin intervals of SA and local foliation. peg. glz veins
											272-277.7	Dark grey to black, is soft, incipiently gneissed + brecciated, carbonaceous, non-carbonaceous phyllite SA surfaces range from medium dull grey to black.
											277.7-278.9	Light white-grey, is soft, micaceous, altered musc + sericite phyllite SA surfaces are dull white-grey, some white "pockets", "falcose" sandings. Upper contact in SA but in rubble, lower contact sharp against 10Q.
											278.7-279.2	is highly fractured, brown white, micaceous glz vein.
											279.2-290.4	- dull light-cream grey to locally cream-white, is soft, micaceous musc + sericite + minor chl altered phyllite contains local thin intervals of incipient gneiss + breccia. SA surfaces range from dull light-grey to "falcose" cream white. Unit is PS2 foliated 28°-2 to 287.7 is dull glz rubble.
											290.4-290.6	is highly fractured, incipiently brecciated, black carbonaceous phyllite. Musc + sericite of band are sharp + gneissed.
												Remaining interval is medium grey, SB4 musc phyllite

CURRAGH RESOURCES INC.
Lithologic Log

Code	From	To	Recov.	No.	Unit	Description
1	10	14	16	20	22 24 26 28 30	34 35
						rubble. Mergon in lower pyritic gte is prominent.
						TOT - 285.0 rubble, largest piece resid 0.2" long 8.4'
						spread out resid
						285.0 - 286.1 in broken, recryst o.k.
						286.1 - FOT rubble, 3.9' resid.
	121911	5	121916	3	1116	14E11 +4 + 7 + 9 ¹⁰⁰ BxA
						Unit is a hard, micaceous local matrix, fine grained, finely "clastic", semi massive pyritic sulphide breccia contains abundant small angular gte clasts generally $\leq 2mm$ & surrounded by a matrix of porous, fine crystallized py, local minor py & local concentrations of sph + gal. Est % Qtz $\approx 20-25\%$ Est PbZn 4-6%.
						Top contact is 524 is high, brecciated porous due to local weathering of carbonate in Ashburton. Bottom contact w SA also sharp & brecciated. Local loss of Cu in thin fractures. BxA likely part of a significant fault system.
						TOT - 293.7 in broken due to steep fractures, recryst o.k.
						293.7 - FOT 5 broken, recryst good
	121916	3	121918	5	1117	15A16 BxA.
						Highly broken & fractured, in soft, block, non-laminar, carbonaceous, pyritic breccia. S ₂ solution highly displaced due to abundant fracturing. Local thin fractures infilled w white-grey gte. S ₂ surfaces are carbon block. Bottom contact w 4E lost in rubble.

CURRAGH RESOURCES INC.
Lithologic Log

Code	From	To	Recov.	No.	Unit	Description	
1	10	14	16	20	22 24	26 28	30 34 35
							of unit volume 316-321.5 unit contains local thin black carbonaceous foliations and is locally irregularly brecciated. Fractures are disrupted. S ₂ 322.9- FOT also irregularly brecciated. Fractures are infilled w py + locally w abundant cpy.
							Est % Py 20-35%
							FOT - 315.8 in broken, recryst, quartz
							315.8- 317.4 rubble, recryst, o.k.
							317.4- 319.5 in broken, recryst, o.k.
							319.5- 321.0 rubble, 8" conc loss.
							321- FOT in broken, recryst, o.k.
							No visible oxidation. Lower contact is 4A lost in rubble.
	131214	131614	8	1211	141A10		+ BxA.
		1111	2				
							Dark grey to black, highly broken + locally fractured. in hard, ribbon banded carbonaceous quartzite. No visible base metal content. Unit is S ₂ foliated, abundant fracturing, has locally disrupted compositional banding. S ₂ surfaces are dull carbon black. Core locally vuggy due to weathering at carbonate in fractures. Banding is generally < 1" thick + locally defines both S ₁ + S ₂ . Bands composed of py + white grey qtz to locally white-grey qtz + py. Unit is locally brecciated from 250.1 to 259.5. Individual clasts are angular rounded + range in size up to 2" φ. Bottom contact is 4E is sharp // to S ₂ .
							Est % Py 15-18%, Est % Pb+Zn < 2%

CURRAGH RESOURCES INC.
Lithologic Log

Code	From	To	Recov.	No.	Unit	Description
1	10 14 16 20	22 24 26 28 30 34 35				
						371.1 - EOT in broken, very good.
						Est Ph ₂ in 2-3%. Bottom contact in phyllite band is sharp
						// to S ₂ Top contact in 4A is also sharp // to S ₂ .
	13712 8	13719 0		1213	14K10	±2 minor (4D07) 75:25
		1155				Dominant unit is moderately soft to locally very soft cream-white-grey, noncalcareous, altered musc. schist phyllite. S ₂ surfaces range from dull light grey to waxy white & locally have "talose" coatings. Unit is P _{S2} foliated. Contains local minor thin stringers calcareous det. fine. pyrite 373.5 - 373.7 and
						375.0 to 375.9 - bands of 0 bands, poorly banded, noncalcareous, dark brown-grey, fine / pyroclastic quartz. Margins are // to S ₂ . Banding defined by alternate P _g = P ₀ + interstitial grey qtz. Bands contain minor mass S ₂ ph
						Est Ph ₂ in band 6-7%
						Core is in broken, 5.4' rec'd Bottom contact in 4A is slightly brecciated
	13719 0	13849		1214	14A10	±4 ±3 ± 13% A.
		1173				V hard, locally highly broken & fractured, noncalcareous, dark grey to black, ribbon banded calcareous qtz.
						707 - 382.2 core is highly fractured in local incipient breccia. Ribbon banding is poorly developed - defined by P _g + lesser interstitial white-grey qtz. No visible base metal in this interval
						382.2 - EOT - Ribbon banding is neither developed, defined by

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Lithologic Log

Code	From	To	Recov.	No.	Unit	Description
1	10 14 16	20 22 24	26 28	30 34 35		ps + lesser sph. Fracturing is generally $< \frac{1}{2}$ cm thick + defines S2. Local Fz Galat nose at 383.5 Est % Dg for entire unit 30-35% Est phz 6-8% Unit is locally porous due to weathering at contact in Cathars. Bottom 8" of unit is completely barren 707 - 382.7 rubble due to abundant shaly partings 8" core loss 382.3 - 507 F barren, very good
	13184 9	131816 2		1315	1414	Gauge + 3XA V soft, flakey, white-cream phyllite gauge + Access top contact in 4A is preserved, bottom contact lost to rubble. Core is gauge + flakey rubble 1.2' rec'd.
	131816 2	131918 9		1216	151316	+2 Locally C2 foliated, noncalcareous medium to dark grey, mod soft, slightly calcareous phyllite S2 surfaces range from shaly medium grey to dark dull grey. Local lithons defined by thin qtz-siltstone laminae. Unit becomes slightly darker moving down the hole At 394.7 is gouge ^{thin} cutting fracture 120/30° Core in bucket, very good
	131918 9	141212 0		1217	141410	(5C4*) B5:15 Med - soft, noncalcareous cream-green altered musc + chl phyllite contains abundant thin ^{yellow} ch1 laminae developed along

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	
						S ₂ foliation contains local lenses of ps in thin fractures. S ₂ surfaces are shiny, light grey to local pale green, white chlorite locally, S ₂ have patchy white talcose coatings. Unit is dominantly PS ₂ foliated.
						Mixed in 4L in top 8' of unit are several bands of talciferous mica also green + brown stained, altered chlorite phyllite. S ₂ surfaces are dull olive green, with local traces of "Euchroite" spots. Ten bands contain abundant chlorite. Bands range up to 8" thick & make up 50% of unit volume in top 8'.
						701 - 399.9 V broken, incipient gouge + best margin fracture 000/25° very o.k.
						399.9 - 402.0 V broken, very o.k.
						402.0 - 402.8 incipiently gouged + brecciated, V broken, very o.k.
						402.8 - 414.0 in broken, very o.k.
						414.0 - 421.6 V broken along S ₂ , very o.k.
						421.6 - 505 visible incipient gouge, 8" core loss.
	1412.0	1414.2		1218	1518	6
		1347				
						Medium grey, variegated, locally (S ₂) foliated, mass phyllite S ₂ surfaces are shiny steel grey. Unit is locally incipiently brecciated along margins of thin local talciferous qtz veins. Thin qtz silstone laminae locally define liders.
						701 - 436 V broken, very good

PROJECT 88 G-05 BOREHOLE NO. _____ COORDINATES: N _____ DATE _____
 LOCATION _____ HOLE SIZE _____ E _____ PAGE of
 LOGGER _____ INCLINATION _____ ELEVATION _____



PITEAU & ASSOCIATES
 GEOTECHNICAL CONSULTANTS
 VANCOUVER CALGARY

GEOTECHNICAL CORE LOG

DEPTH (TO)	LENGTH OF RUN m	CORE RECOVERY		LOG		HARDNESS	DEGREE OF BREAKAGE CAPACITY %	DEGREE OF WEATHERING	ROCK TYPE	DIPPING DEP		DIPPING JOINTS		CROSS JOINTS		COMMENTS
		LENGTH	%	LENGTH	%					DEPTH	ANGLE	NO.	FREQ.	NO.	FREQ.	
171	52.1	.6	.2						171 1/2	m	Rec	171 1/2	Rad	m		338 103.3 4.0 1.2 .8 .2
177	53.9	1.4	.4						177 1/2	82.1	2.9	.9				342 104.2 4.3 1.2 .4 .1
182	55.5	.5	.2						182 1/2	80.9	1.0	.3				347 105.8 6.1 1.8 .6 .2
183	55.8	.8	.2						183 1/2	81.2	1.5	.5				349 106.3 2.8 .8
184	56.1	.8	.2						184 1/2	82.8	5.2	.8	.2			354 107.9 6.1 1.8 .4 .1
188	57.3	1.5	.4						188 1/2	83.8	5.0	1.0	.3			358 109.3 5.1 1.7 .6 .2
192	58.5	.5	.2						192 1/2	84.7	3.2	1.0	.3			364 110.9 6.2 1.8 .8 .2
196	59.7	.6	.2						196 1/2	85.3	2.8	.9				367 111.9 5.5 1.7 .8 .2
203	61.9	1.6	.5						203 1/2	86.3	1.7	.5				371 113.1 3.5 1.1 .5 .2
206	62.8	1.3	.4						206 1/2	86.7	1.6	.5				375 114.3 4.8 1.5 1.0 .3
210	64	1.1	.3						210 1/2	88.1	2.6	.8				381 108 5.6 1.7 1.2 .3
211	64.3	1.6	.5						211 1/2	88.9	3.2	1.0				386 117.8 4.8 1.5 1.8 .5
214	65.2	4.0	1.2						214 1/2	90.5	5.0	2.9	.9			392 119.5 5.5 1.7 2.6 .8
217 1/2	66.3	4.0	1.2	.5	.2				217 1/2	91.3	4.5	1.4	.5	.2		397 121 5.8 1.8 1.8 .5
219 1/2	66.9	2.4	.7						219 1/2	92	2.5	.8				402 122.5 5.2 1.6
220 1/2	67.2	1.0	.3						220 1/2	93.6	4.4	1.4				407 124 1.5 1.0
225	68.6	5.8	1.8	1.0	.3				225 1/2	94.3	2.9	.9				412 125.6 5.4 1.6 1.4 .4
230	70.1	6.2	1.9	1.7	.5				230 1/2	95.1	2.2	.7				416 126.9 5.0 1.5 1.4 .1
231	70.4	1.0	.3						231 1/2	96.3	4.7	1.6	.5			419 127.7 5.2 1.0
236	71.9	5.9	1.8	1.4	.4				236 1/2	96.6	1.3	.4				422 128.8 2.7 .8
240	73.2	5.4	1.7	2.1	.6				240 1/2	96.9	1.2	.4				427 130 1.5 .9 1.2
245	74.7	4.8	1.5	2.7	.8				245 1/2	97.8	2.4	.7				432 131.7 5.1 1.6
247	75.3	2.4	.7						247 1/2	99.2	6.0	1.8	.3			436 132.9 1.3 1.3
251	76.5	3.8	1.2						251 1/2	100.6	3.5	1.1	.3			438 133 2.1 .6
254	77.4	4.0	1.2	.8	.2				254 1/2	101.5	4.3	1.3				442 134.7 3.0 .9
259	78.9	5.7	1.8	2.5	.9				259 1/2	102	2.7	.7				

Fig. 1. Typical rock mechanics core log.