

1987

VANGORDA

DRILL HOLES

015051

rik has ~~112XX~~ sequence of tags

DIAMOND DRILL CORE LOG

Date: \_\_\_\_\_

Hole Number: 87V-01

Reference Fabric Orientation Diagram:

Project: Vangorda 1987 Drilling

Location: Vangorda Deposit

Claim: \_\_\_\_\_

Terr. Plane Co-ords.: 6903154.85 N

594245.87 E

Grid Co-ords: 14 E / 1.5 N

Elevation: 1167.01

All symmetry determinations looking

Total Depth: 212 feet (64.6 m)

NW with 52 dipping

Inclination: -90° (vertical)

SW with dip azimuth 220°.

Purpose: metallurgical sample of high grade

Reason hole Terminated: drilled through deposit into altered phyllite

Logged by: CVR / LCP

Date(s) Logged: Oct 7-10 / 1987

Drilling Contractor: ARCTIC DIAMOND DRILLING

Hole Cemented: No Steel down Hole: No

Size	CORE From	To	Collar Cased and Capped: <u>No</u>
<u>NW</u>	<u>0</u>	<u>60</u>	
<u>NQ</u>	<u>68</u>	<u>212</u>	

Assay Lab: MINE

Certificate No's: \_\_\_\_\_

Started: SEPT 29/87 Completed: SEPT 30/87



FEET

DDH 87V-01  
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Code	From				To				Recov.		No.		Unit	Description
	10	14	16	20	22	24	26	28	30	34	35			
L		100		160								1	#	Triconed - No recovery
L		160		172								12	#	0.3' to 1' boulders of 10AB biotite-muscovite gk diorite in banded mud matrix. Anvil Batholithic boulders. Now stained to an orange to creamy brown TOI-62 70% recovery / 62-68 55% recovery / 68-72 30% recovery Boulders intact & mud is soft shaly
L		172		187.3								13	1416148	& minor slightly oxidized Moderately hard, light to dk grey, compositionally banded, fine-grained sulphides in basic matrix. Dolomite veins 1mm - 1cm irregular w/ small sulphide clasts - shallow angle to core axis (& because slowly fizzes w/ 10% HCl when powdered) Veins weathered to creamy white to yellow veins through entire interval 10cm of mud @ 77.3 (possibly cave?) Core very rubble & broken - upper 5' ground & forms pebbles TOI-77 20% recovery / 77-81 75% recovery / 81-83 40% recovery / 83-86 80% recovery / 86-EOI 100% recovery Estimated grade. 11% (Pb+Zn) Lower contact sharp and parallel comp. banding
L		187.3		188.5								14	13C1#3	4 slightly oxidized Moderately soft, pale brownish green, moderately to very calcareous, chloritic phyllitic. Striped appearance w/ dk green chloritic stripes in light brown weathering calcareous matrix. Minor bright green "fuchsite" Thin purple sheets w/ iron stained halos Upper contact sharp however contact hidden in rubble. Core very broken to rubble recovery 80-85%

Code	From				To				Recov.				No.				Unit	Description
	10	14	16	20	22	24	26	28	30	34	35	10	14	16	20			
L		1805	(29.4)	1966									15	1414	14	8 ±6 minor	Homogeneous to locally banded pyritic massive sulfidates. Bands parallel to irregular contacts, 'dark' purplish brown & contain magnetite + sphalerite. Unit contains clasts & bands of pale brown dolomite and/or calcite. Locally carbonate forms matrix for breccia w/ sulfidate clasts - looks like only slightly displaced angular clasts. Minor Qtz clasts. Carbonate 10% of unit. Carbonate clasts 1cm up to bands 5cm thick. Estimated (Pb+Zn) = 6%. Lower contact sharp against next unit. Core mod. broken / recovery 90%+ locally very minor barite	
L		1966	(30.9)	11010									16	1416	18	±3 minor	Moderately hard, finely banded to thickly banded baritic massive sulfidates. Sphalerite is honey-colored. Contains ubiquitous "fine" magnetite & some coarse magnetite blebs. Some thin pyritic bands. Estimated (Pb+Zn) = 12%. Upper & lower contacts are sharp. Core mod. broken / recovery OK. Very minor calcite locally	
L		11010	(31.0)	11018									17	1315	14	±8 minor slightly oxidized	Moderately soft, pale olive green, laminated to wadded chloritic phyllite. Local orange iron staining. Contains blebs of magnetite up to 1cm thick. Extensive dolomite in white bands. Very altered. Core very broken / recovery 80% or better	

FEET

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Code	From				To				Recov.	No.				Unit	Description
	10	14	16	20	22	24	26	28		30	34	35			
L	1101	18		<u>31.9</u> 110147								18	14J142	87#	Hard, botryoidal to irregularly banded massive sulphides. Contains minor cream dolomite as radiating crystals. Sulphides include sphalerite, galena, pyrrhotite, pyrite. Magnetite also common. Rounded clots of pyrite in dk sphal-gal-magnetite rich matrix. Looks coarser grained than adjacent units. Core intact - recovery good. Estimated grade 17% (Pb+Zn)
L	11014	7		<u>31.7</u> 111138								19	14G148	3 minor	Thickly banded baritic, pyritic, sulphides. Minor calcite in thin bands of slightly coarser grains. Contains small magnetite blebs localized in thin bands. Honey-combed sphalerite. Estimated grade 12% (Pb+Zn). Core intact / no visible weathering / recovery OK. Mod. broken 110.5-113
L	11113	8		<u>37.3</u> 112114								110	14D148	± # Minor	Thickly banded. - Sulphides banded on scale 1/2 cm - 3cm. Lenses, bands of quartz. Minor calcite in fractures of qtz. Qtz bands have numerous thin fractures containing sulphides. Sulphide bands 1-4cm apart (i.e. qtz bands 1-4cm thick). Sulphides consist of pyrite-sphal-gal. Magnetite present as small blebs. Estimated grade 14% (Pb+Zn). About 50% sulphides. Py ~ 30% of the sulphides. Beautifully intact / recovery 100%
L	11211	4		<u>46.3</u> 11520								111	14C13789	± # minor	Thickly banded quartz & more pyritic sulphides. Locally quartz looks like large clots in pyritic. 50% pyritic sulphides & 50% quartz. Minor thin calcite irregular bands parallel PSD. Spottiness in fractures in qtz.

Code	From				To				Recov.	No.	Unit	Description
	10	14	16	20	22	24	26	28				
L	1121	4	<sup>(46.3)</sup> 1151	20						111	41D1	continued Irregular blebs & fine grained bands of py in both qtzose & sulphides ore locally looks like "flooding" Upper and lower contacts are grade breaks Magnetite blebs throughout Upper contact also marked by great increase in pyrite. Core intact to moderately broken Recovery OK Unit very hard Estimated grade 7% (Pb+Zn) Estimated pyrite 40%
L	1151	20	<sup>(52.3)</sup> 1171	35						112	41C1318	9 ±7 ±# minor Thickly banded pyritic qtzose. Pyrite bands 1cm - 7cm thick as dissem py + minor sphal, gal, magnetite in qtzose-rich, hard matrix. Minor Cpy filling fractures in qtzose bands. Traces of py. Minor clasts of white calcite + qtz up to 3cm across Qtzose areas locally have paper- thin creamy white muscovite folia Very locally have thin bands of fine-grained, pale pink garnet Estimated grade 4% (Pb+Zn) Py content 35% Core recovery OK / intact Upper & lower contacts gradual
L	1171	35	<sup>(63.3)</sup> 1171	60						113	41D1314	8 ±# minor Thinly banded pyritic sulphides & more qtzose bands and lenses. Magnetite blebs commonly especially on margins of qtzose lenses. Thin muscovite laminae in qtzose bands. Sulphide banding irregular. Minor dolomite as fracture filling Estimated Pb+Zn 12% Pyrite content 30% Unit hard Core mod broken / recovery OK
L	1171	60	<sup>(59.7)</sup> 1171	93						114	41C131	Poorly banded qtzose ore w/ disseminated py forming 10-15 cm bands Unit hard Estimated grade 3% Pb+Zn No magnetite. Minor calcite in fractures. Some micaceous creamy white folia in qtzose areas 40% py Core intact / recovery OK

Code	From			To			Recov.			No.			Unit	Description
	10	14	16	20	22	24	26	28	30	34	35			
L	1117	193		1181	45					115			14121318	±\$9 minor [4L124] Thickly laminated to thinly banded pyritic quartz. Bands range from 1cm - 7cm. Some high grade bands 2cm - 7cm thick. Micaceous creamy-white folia & laminae parallel P52. Magnetite as small blobs. Gys filling small scuffing fractures. Some minor calcite blobs. Trace of pale pink garnet. Sulphides as discrete bands parallel S2. Estimated grade (Pb+Zn) 8% Py content 25%. Recovery OK. Core intact. Has appearance of very silicified, & sulphide-flooded phyllite. Starting to get wall rock type affinities.
L	1181	45		1181	97					116			14121214	±7 ±1 minor Moderately soft to moderately hard, pale creamy white, non-calcareous phyllite w/ minor scattered py-sphalogo bands up to 2cm thick. Generally P52 foliated, locally has micro lichen texture. S2 folia are pale creamy w/ greenish tint. Sulphide bands are dk brown, fine-grained. Minor scattered pale pink garnet. Highly altered coarsely rock phyllite. Estimated grade 3% (Pb+Zn). Core moderately broken. 2-3 cm gauge @ 187.6. Recovery OK. Lichen-rich area is slightly dolomitic.
L	1181	97		1201	73					117			14121215	±1 [5B4 ±1] Moderately soft to moderately hard, pale creamy green, moderately calcareous phyllite. Calcite defines micro lichen texture. Contains fine-grained py in thin bands parallel S1 and S2 - up to 1cm thick. S2 folia pale greenish silvery cream. Locally goss. Estimated grade Pb+Zn = 2% Py content 15%. Minor pale pink garnet. Core mod. broken - recovery OK. No faults.

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# CURRAGH RESOURCES INC.

## Lithologic Log

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Date: OCT 7/87 Logged By: CR/LCP

Code	From			To			Recov.		No.		Unit		Description
	10	14	16	20	22	24	26	28	30	34	35		
L	12017	3	(64.6) 121120						118			414016	Moderately soft to soft, PS2 foliated, locally slightly calcareous, pale green phyllite. S2 folia are pale silvery green. Very minor gas, ps along thin xcutting features. Minor scattered py grains. Core intact except for 10cm rubble @ EOI.
												EOH	

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## ASSAY LOG (SAMPLER'S COPY)

Date Oct 19/87 Sampled by \_\_\_\_\_

CODE	FROM	TO	SAMPLE	INTR.	REC (m)	UNIT	DESCRIPTION							
P	10	14	16	20	22	26	28	30	32	34	36	40	42	
P		1720		1770		111153				106	41641			slightly oxidized recovery terrible - pebbles only
P		1770		1845		111154				150	41641			slightly oxidized
P		1845		1873		111155				130	41641			slightly oxidized
P		1873		1885		111156				121	31C*131			altered metabasite slightly oxidized
P		1885		1930		111157				150	41K141			
P		1930		1966		111158				140	41K141			
P		1966		1100		111159				144	41G41B1			
P		11010		11018		111160				120	31C141			slightly oxidized
P		11018		11047		111161				123	41J142			
P		11047		11088		111162				151	41G41B1			
P		11088		11138		111163				157	41G41B1			
P		11138		11177		111164				140	41D41B1			
P		11177		11214		111165				138	41D41B1			
P		11214		11268		111166				148	41D <sup>C</sup> 3171			
P		11268		11310		111167				154	41D <sup>C</sup> 3171			
P		11310		11361		111168				156	41D <sup>C</sup> 3171			see assays
P		11361		11420		111169				160	41D <sup>C</sup> 3171			
P		11420		11460		111170				154	41D <sup>C</sup> 3171			
P		11460		11520		111171				152	41D <sup>C</sup> 3171			
P		11520		11561		111172				150	41C31B1			
P		11561		11606		111173				148	41C31B1			
P		11606		11650		111174				145	41C31B1			
P		11650		11695		111175				150	41C31B1			
P		11695		11735		111176				145	41C31B1			
P		11735		11760		111177				134	41D3141			
P		11760		11793		111178				133	41C31			
P		11793		11845		111179				164	41D <sup>C</sup> 3181			
P		11845		11897		111180				152	41L2141			
P		11897		11953		111181				163	41L2151			
P		11953		12012		111182				162	41L2151			
P		12012		12073		111183				163	41L2151			

Code	From		To		Feature	SVE	S <sub>0</sub>		S <sub>1</sub>		S <sub>2</sub>		Description	
	10	14	16	20			22	24	26	28	32	34		38
S				27.4 1910	0	PIS12						518	2120	layers of carbonate clasts/lenses in massive S=
S				30.2 1910	0	PIS12						610	2120	banding in 4G4
S				34.6 1113	5	PIS12						710	2120	compositional banding in 4G4
S				41.7 11316	8	PIS12						716	2120	diffuse pyrite bands in goss ore
S				46.3 11520	0	PIS12						516	2120	pyrite banding & magnetite-rich bands in pyritic goss ore
S				52.4 11712	0	PIS12						518	2120	congos banding + micaceous filia
S				57.0 11817	0	PIS12						615	2120	micaceous filia
S				57.5 11818	5	CIS12Z				515	1140	70	2210	micaceous lithons - changes rapidly down hole to M symmetry
S				58.8 11913	0	CIS12S				417	01010	615	2120	micaceous filia w/ lithons
S				62.8 121016	0	CIS12I				514	21710	618	2120	S1 dips down normal S2

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Fault Log

Date: \_\_\_\_\_ Logged By: \_\_\_\_\_

Code	FROM		TO (At)		Feature	REG	UPPER Dip Direct		INTERNAL Dip Direct.		LOWER Dip Direct		Description	
	10	14	16	20			22	24	26	28	32	34		38
F		101		16100	WIP									Triconed - no recovery
F		1600		1620			6							70% rec
		1620		1680			5							55% rec.
		1680		1720			3							30% rec
		1720		1885	31B	R								very rubblely & broken
		1720		1770	13R		2							ground & pebbles / 20% rec
		1770		1810			7							75% rec.
		1810		1830			4							40% rec.
		1830		1860			8							80% rec
		1873		1885			8							very broken 80-85% rec.
		1885		1916	21B		9							mod. broken / 90%+ rec.
		1916		11010	21B									mod. broken
		11010		1101	831B		8							very broken / 80% rec.
		11110		11113	21B									mod. broken
		1121		1152	21B									intact to mod. broken
		11713		1176	21B									mod. broken
		1184		11819	21B									mod. broken
				11817	11G									2-3 cm gouge
		11819		12017	21B									mod. broken
				12112	11R									10 cm rubble
														EOH

PROJECT \_\_\_\_\_ DRILLHOLE NO. B7V-01 COORDINATES: N \_\_\_\_\_ DATE Nov 13 1997  
 LOCATION \_\_\_\_\_ HOLE SIZE NQ E \_\_\_\_\_ PAGE of \_\_\_\_\_  
 LOGGER CVR INCLINATION -90° 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		COMMENTS	
		LENGTH	%	LENGTH	%		CATEGORY	NO.			DEPTH	ANGLE	NO.	FREQ.	NO.	FREQ.		
60		0		0														<i>Truncated</i>
62		1.2		0														
68		2.0		0														
72		1.0		0														
77		0.3		0														
81		3.0		0														
83		0.8		0														
86		3.1		0														
88.5		3.0		0.6														
92		3.8		1.0														
96.5		4.7		1.2														
101.5		5.7		1.1														
106.5		5.0		3.7														
112.0		5.7		1.9														
113.0		1.0		0														
116.5		3.3		2.5														
121.5		5.1		4.5														
126.5		4.5		3.4														
131		5.2		5.2														
132		1.1		1.1														
137		5.2		5.2														
142		5.0		5.0														
146		5.2		2.8														
152		5.0		4.1														
157		5.5		3.1														
162		5.0		4.1														
167		5.0		2.5														

Fig. 1. Typical rock mechanics core log.

PROJECT \_\_\_\_\_ DRILLHOLE NO. 87V-01 COORDINATES: N \_\_\_\_\_ DATE Nov 13 1987  
 LOCATION \_\_\_\_\_ HOLE SIZE NQ E \_\_\_\_\_ PAGE    of     
 LOGGER CVR INCLINATION -90° 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.		
172		5.2		2.4														
177		5.3		2.9														
182		5.5		2.2														
187		5.2		2.0														
192		5.0		0.4														
197		5.3		2.2														
202		5.2		2.3														
207		5.0		2.6														
212		3.8		0.8														

EOH

Fig. 1. Typical rock mechanics core log.

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DIAMOND DRILL CORE LOG

Date: \_\_\_\_\_

Hole Number: 87V-02

Reference Fabric Orientation Diagram:

Project: 1987 Vangorda Drilling

Location: Vangorda Deposit

Claim: \_\_\_\_\_

Terr. Plane  
Co-ords.: 6903134.64 N

594225.77 E

Grid  
Co-ords: 14E / 0.5N

Elevation: 1164.31

All symmetry determinations looking

Total Depth: 205 feet (62.5m)

NW with 52 dipping

Inclination: -90° (vertical)

SW with dip azimuth 220.

Purpose: test high grade core and provide metallurgical samples

Reason hole  
Terminated: Drilled through ore into altered phyllite

Logged by: LCP/CVR

Date(s) Logged: Oct 9/1987

Drilling  
Contractor: ARCTIC DIAMOND DRILLING

Hole  
Cemented: No Steel  
down Hole: No

Size	CORE From	To	Collar Cased and Capped: <u>No</u>
<u>NW</u>	<u>0</u>	<u>70</u>	
<u>NA</u>	<u>70</u>	<u>205</u>	

Assay Lab: MINE

Certificate No's: \_\_\_\_\_

Started: Oct 1/87 Completed: Oct 2/87

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Diamond Drill Core Log 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	87V-02	11164.3	903134.6	594225.8	FEET	S2

Code	Drillhole	Depth	Zenith Angle	True Azimuth	Comments
I	2	8 10	14 22	26 28	32 34 56
R	87V-02	00	180.0	0.0	AT COLLAR
R					
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
I	2	8 10 56
		NO DOWNHOLE SURVEYS

FEET

DDH 87V-02

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## CURRAGH RESOURCES INC.

## Lithologic Log

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Date: OCT 8/87 Logged By: CR

Code	From				To				Recov.				No.				Unit	Description
	10	14	16	20	22	24	26	28	30	34	35	1	2	3	4			
L		10	0		(21.3) 17	10	0									11	#1	Triconed No Recovery
L		7	10		(22.9) 17	15	0									12	#1	Assorted fragments of biotitic gtz diorite, granodiorite + calcareous phyllite. Likely broken fragments from overburden boulders which are supported in a pebbly clay-mud matrix. Very little matrix recovered - (black mud slime on bottom of core box) Recovery of this interval is extremely poor: < 5%
L		7	15	0	(25.9) 18	2	0									13	4, 6, 18	Moderately <sup>m. oxidized</sup> hard, dark grey to orange-yellow on localized oxidized surfaces, slightly porous, baritic massive sulphide. 70' to 78'; extremely soft pyritic sulphide sand inter-banded with slightly more competent baritic sulphides. Minor magnetite & honey coloured sphalerite. Core is very rubble + broken, 70' to 80' 25% recovery / 80-82 pebbles, 8% recovery. Estimated grade Pb+Zn 14%. Upper + lower contact lost in rubble.
L		8	12	0	(30.2) 19	9	0									14	4, 6, 18	Extremely Oxidized GARBAGE! Dominately angular fragments, extremely oxidized, limonitic, orange weathered sulphides. Locally chunks of competent rock which are more competent. Portions of the interval compositionally banded. Sulphides now completely weathered to a coherent mud. - YUK! Lowermost foot py sand - Does not look like ferro-crota, no strong evidence for a fault, possibly highly weathered sulphides on surface of bedrock.

Code	From		To		Recov.		No.		Unit		Description	
	10	14	16	20	22	24	26	28	30	34		35
											Core status - badly broken + rubbley	
											#2-92 Reasonable Recovery   92-96 50%   96-99 reasonable	
L	19	19	0	20	22	24	26	28	30	34	35	(31.1) Mud - Ug! v. oxidized
												Dark grey to black, non calcareous, pyritic sand + mud; contains two small chunks of baritic sulphide. Core is very rubbley to mud.
												Recovery 66% Grade??
L	1	10	2	0	1	10	5	2				(32.1) Mud very oxidized
												Dark-brassy greenish-yellow py sand. Recovery 66%
L	1	10	5	2	1	10	7	1	4	6	4	(32.6) mod. oxidized
												Rock Yed!! exclaims Lee - Medium grey PS <sub>2</sub> compositionally, slightly pyritic/baritic sulphides. Locally has orange weathering colours along fractures + cut surfaces.
												%Pb+Zn ≈ 13% Rock very broken + rubbley - some minor sandy intervals. Recovery reasonable.
												P <sub>5</sub> % 20-40 variable
L	1	10	7	1	1	10	8	2	1	3	1	(33.5) # # mod. oxidized
												Tan-brown medium grey, slightly calcareous, moderately soft, locally striped phyllite. Contains sulphides in gte along fractures, calcite associated with gte.
												Cut surface weathered to orange-brown.
												Upper + lower contacts sharp.
												Moderately broken good recovery

DDH 87.V-0.2  
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Code	From				To				Recov.				No.				Unit	Description							
	10	14	16	20	22	24	26	28	30	34	35	10	14	16	20	22			24	26	28	30	34	35	
L	1	0	8	2	(33.8) 1	1	1	1	0													9	41614	8 minor <i>mod. oxidized</i> Thickly laminated ie. compositionally banded $PS_2$ foliated baritic massive sulphide, locally weathered to orange-brown in fractures. Contains minor aegmatitic qtz veins. 109.5-110.0 Massive homogeneous pyritic sulphides Disseminated mag. in uppermost part of interval Est grade Pb+Zn 15% $P_y$ content 20% (ore very broken-rubby, recovery reasonable. Lower contact gradational, upper contact sharp.	
L	1	1	1	1	0	(36.5) 1	1	1	1	0													110	41614181#	(4E0#) 60:40 <i>slightly oxidized</i> Mixed unit: interbanded high grade baritic massive sulph + low grade pyritic massive sulfide; banding 5cm to 40cm. Baritic sulphides are thickly laminated // to $PS_2$ , contain minor disseminated magnetite locally, light tan weathering calcite clasts up to 1cm across. In uppermost part of interval, calcite is disseminated throughout the matrix. Diffuse $py$ banding on the scale of 1 to 3 cm. Est Pb+Zn 14% for baritic material. $P_y$ content $\approx$ 30% Massive Pyritic interval: massive, homogeneous fine grained $P_y$ with similar calcite clasts. Locally calcite in matrix, contains minor barite. Est Pb+Zn ranges 3% to $\approx$ 8% Core moderately broken, recovery O.K.

Code	From	To	Recov.	No.	Unit	Description
L	11180	11210	20	111	14E10	slightly oxidized Fine grained homogeneous massive pyritic sulphide. Contains minor qtz clasts up to 2-3 mm, locally slightly porous, thin porous lens define PS <sub>2</sub> . Est Pb+Zn 2-3% Core is rubble to sand Recovery OK.
L	11210	11228	28	112	4E16#	slightly oxidized PS <sub>2</sub> banded Pyritic sulphides, contains thin streaks + bands of white calcite. Locally slightly porous. Barite disseminated in matrix. Est grade Pb+Zn 7% Barite content ≈ 10% Core is moderately broken, rubble of 122. Lower contact sharp, marked by increase in barite content. Upper contact hidden in sand. Recovery O.K.
L	11238	11263	3	112	4G48*	PS <sub>2</sub> banded baritic sulphides, minor disseminated mag. Calcite + Dolomite locally as small clasts disseminated in matrix. Est Grade Pb+Zn 15% Py content 15-20% / Barite content 30% Core is intact, recovery is good.
L	11263	11315	5	113	14E11 ±#	Minor Hard fine grained dark brassy yellow massive pyrite. Thin bands + blebs of mag in small amounts. Small qtz clasts + qtz disseminated in matrix. Minor 5-10 cm intervals

Code	From	To	Recov.	No.	Unit	Description
1	10	14 16	20 22 24 26 28	30	34 35	
						with calcite clasts and calcite disseminated in matrix. Estimated grade 4% Pb+Zn being generous, but Lee may be wrong. Core intact, recovery 100%
L	11315	<sup>(42.3)</sup> 11318 7		114	1413#	Numerous fine grained bands + clasts of gte in a fine grained pyritic sulphide matrix. Gte dominately grey to white, near EOI start to see some carbonaceous Py in gte clasts. Locally contains small creamy calcite clasts + minor calcite disseminated in matrix. Est. grade Pb+Zn 6% Py content ≈ 50% Note: Similar to ZEC at Faro Core is beautifully intact, recovery 100%
L	11318 7	<sup>(44.0)</sup> 11414 5		115	1413	Similar to previous unit except for slightly lower grade and is non-calcareous. Est grade Pb+Zn 3% Py content ≈ 50-60% Core is intact, except for thin rubble at 140' Recovery is good
L	11414 5	<sup>(50.4)</sup> 11615 5		116	141E11	[4C3] (4A39) 70:30 Dominately a fine grained siliceous pyrite with grey gtease clasts, # bands. Generally homogenous, Py content ≈ 60%. Py commonly forms grains in a siliceous matrix. Contains bands - intervals - clasts? 5 to 30 cm of pyritic carbonaceous ribbon banded 4A.

Code	From		To		Recov.		No.		Unit		Description
	10	14	16	20	22	24	26	28	30	34	
											4 A intervals contain visible chalcopyrite on X-cutting fractures. Contacts between 4A & 4E are not sharp, i.e. decrease in Py & increase in carbonaceous folia. Estimated grade Pb+Zn 4% Core is rubbley TOI to 145, Below it is intact Recovery is reasonable, good, fine, O.K, suitable
L	116	55	117	45					117	41D13	±5±8±9 minor [4E14] (3C3) minor Thin banded, hard pyritic quartzite. Py grains disseminated in a matrix of qtz & sph. Qtz. lenses & bands locally contain carbonaceous folia. Estimated grade Pb+Zn 8%, Est. Py 50-70% 15 cm of striped 'leopard' rock. Calcareous, chloritic phyllite. located at 170.3 Upper contact gradual marked by grade change. Lower contact sharp against phyllite Core is intact, recovery excellent. Driller's Dream!
L	117	45	117	69					118	41E24	9 minor (4H0) ← Interesting! Moderately hard, creamy white musc phyllite w 1-2 cm thick py/sph sulphide banding. Contains 40 cm thick interval of 4H. 4H has numerous very small qtz clasts (1-2 mm). Upper contact with phyllite Xcuts PS <sub>2</sub> about 20° to core axis. Lower contact    to S <sub>2</sub> . Est. grade Pb+Zn 6% core intact, recovery excellent.

Code	From	To	Recov.	No.	Unit	Description
	10 14 16 20 22 24 26 28 30 34 35					
L	11716 9	<sup>(59.0)</sup> 11913 6		119	13G108	6 minor Moderately soft to moderately hard light grey non-calcareous phyllite S <sub>2</sub> foliated. S <sub>2</sub> folia light silvery grey. Microolithons typically contain chlorite, quartz, minor po laminations. Core intact to moderately broken no gouge, no rubble Po also occurs on thin X-cutting fractures. Recovery O.K.
L	11913 6	<sup>(59.9)</sup> 11916 5		1210	14K10	±2 [4L12] 4 minor Hard, light grey, very siliceous phyllite to slightly micaceous qtzite. Fine to coarse grained py occurs in bands 2-10 cm thick. S <sub>2</sub> folia light creamy silver, Fractures locally contain dark green chlorite selvages. Core is intact, recovery good. Est. grade Pb+Zn 2%
L	11916 5	<sup>(62.0)</sup> R1013 4		1211	14L14	1 Moderately soft to moderately hard non-calcareous phyllite. S <sub>2</sub> folia light cream, fine grained sph ± Py occurs as thin streaks along S <sub>2</sub> & X cutting fractures this locally defines microolithons. 70I - 197.5 very broken to rubble & 3cm gouge at 197. 197.5 - 201.5 intact. / 201.5 - 203 moderately broken / 203 to EOI intact Est. Grade Pb+Zn ≈ 3%

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	22	24	26	28	30		34
L	12	13	4	<sup>(62.5)</sup> 12	10	15	0				12	2			4	1	12	4				[4C0]
																						Hard slightly micaceous, moderately pyritic quartz. S <sub>2</sub> folia light silvery-cream. P <sub>3</sub> as diffuse bands    S <sub>2</sub> also filling X cutting fractures. Fine grained Spht & Gal locally as similar occurrences. Fine chalc & po in X cutting fractures.
																						Est grade Pb+Zn 4% % P <sub>3</sub> ≈ 10% - 20%
																						Core intact, recovery excellent.
																						Last four units look like silicified altered wall rock.

DDH S7V-02

CURRAGH RESOURCES INC.  
Structural Log

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Date: Oct 9/87 Logged By: L.P. + C.R.

FEET

Code	From		To		Feature	S <sub>0</sub> Dip Direct.	S <sub>1</sub> Dip Direct.	S <sub>2</sub> Dip Direct.	Description
	10	14	16	20					
S					P S 12			4 2 2 20	Compositional banding in 4G
S					P S 12			2 18 2 20	" " " "
S					P S 12			6 19 2 20	" " " "
S					P S 12			8 4 2 20	" " " "
S					P S 12			5 2 2 20	Banding in Qtzose Ore
S					P S 12			6 16 2 20	Calcite streaking in Qtzose Ore
S					P S 12			8 2 2 20	Carbonaceous folia in siliceous pyritic ore
S					P S 12			7 4 2 20	Banding in Qtzose ore
S					C S 12 Z		5 4 1 4 5	7 5 2 20	Creunulation cleavage
S					P S 12			7 6 2 20	Micaceous foliation
S					P S 12			7 8 2 20	Micaceous foliation + sulphide banding

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	
✓	1715	0	1812	0	11403		170		31		14G4		4G Rubble
✓	1812	0	1817	0	11404		150		46		14G4		4G Mud + Rock pieces. Locally limonitic.
✓	1817	0	1912	0	11405		150		61		14EG		limonitic Sulphide Mess
✓	1912	0	1919	0	11406		170		65		14EG		More of same
✓	1919	0	1102	0	11407		130		21		14G		4G sand.
✓	1102	0	1105	2	11408		132		24		14E		4E mud
✓	1105	2	1107	1	11409		119		31		14G4		Slightly weathered
✓	1107	1	1108	2	11410		111		11		13C4		
✓	1108	2	1111	0	11411		128		32		14G4		Slightly weathered
✓	1111	0	1114	0	11412		130		48		14G4		
✓	1114	0	1118	0	11413		140		42		14G4		
✓	1118	0	1120	0	11414		120		32		14E10		Pyritic Sand.
✓	1120	0	1122	8	11415		128		32		14E16		
	1122	8	1126	3	11416		135		27		14G4		
	1126	3	1131	5	11417		152		67		14E1		
	1131	5	1136	0	11418		145		51		14D3		✓
	1136	0	1138	7	11419		127		35		14D3		✓
	1138	7	1142	0	11420		133		36		14C3		✓
	1142	0	1144	5	11421		125		27		14C3		✓
	1144	5	1149	0	11422		145		51		14E1		✓
	1149	0	1154	2	11423		152		57		14E1		✓
	1154	2	1159	8	11424		156		64		14E1		✓
	1159	8	1165	5	11425		157		59		14E1		✓
	1165	5	1169	9	11426		144		49		14D3		✓
	1169	9	1174	5	11427		146		46		14D3		✓
	1174	5	1176	9	11428		124		28		14L24		
	1176	9	1182	0	11429		151		51		13G08		
	1182	0	1187	0	11430		150		54		13G08		
	1187	0	1193	6	11431		166		70		13G08		
	1193	6	1196	5	11432		129		32		14C0		
	1196	5	1203	4	11433		169		70		14L4		
	1203	4	1205	0	11434		170		20		4L11214		
							116						

ASSAY LOG (SAMPLER'S COPY)

CODE	FROM		TO		SAMPLE	INTR.	REC (m)	UNIT	DESCRIPTION			
	10	14	16	20						22	26	28
	17	50	18	20	1114103		13	14G4	4G Rubble m. oxidized			
	18	20	18	17	1114104		14	6G4	4G Mud + Rock pieces. Locally limonitic. v. oxidized			
	18	17	19	12	1114105		16	14E1G	limonitic Sulphide v. oxidized Mess			
	19	20	19	19	1114106		16	5E1G	More of same v. oxidized			
	19	19	11	02	1114107		12	14G4	4G sand. v. oxidized			
	11	02	11	05	1114108		12	4E4	4E mud v. oxidized			
	11	05	11	07	1114109		12	14G4	Slightly weathered m. oxidized			
	11	07	11	08	1114110		11	13CX4	m. oxidized			
	11	08	11	11	1114111		13	2G4	Slightly weathered m. oxidized			
	11	11	11	14	1114112		14	8G4	sl. oxidized			
	11	14	11	18	1114113		14	2G4	sl. oxidized			
	11	18	11	20	1114114		13	2E10	Britic Sand. sl. oxidized			
	11	20	11	22	1114115		13	2E4	sl. oxidized			
	11	22	11	26	1114116		12	7G4				
	11	26	11	31	1114117		16	7E11				
	11	31	11	36	1114118		15	14D3				
	11	36	11	38	1114119		13	5E3				
	11	38	11	42	111420		13	6C3				
	11	42	11	44	111421		12	7C3				
	11	44	11	49	111422		15	14E1				
	11	49	11	54	111423		15	7E1				
	11	54	11	59	111424		16	4E1				
	11	59	11	65	111425		15	9E1				
	11	65	11	69	111426		14	9D3				
	11	69	11	74	111427		14	6D3				
	11	74	11	76	111428		12	8L24				
	11	76	11	82	111429		15	13G08				
	11	82	11	87	111430		15	4G08				
	11	87	11	93	111431		17	0G08				
	11	93	11	96	111432		13	2C0				
	11	96	12	03	111433		17	0L4				
	12	03	12	05	111434		12	0L124				

Fault Log

Code	FROM		TO (At)		Feature	REG	UPPER Dip Direct		INTERNAL Dip Direct.		LOWER Dip Direct		Description	
	10	14	16	20			22	24	26	28	32	34		38
F		10		17	00	1NIP								Feiconed - no recovery
F		17		00		0								5% recovery of over
		17		50		0								very broken & rubble / 25% rec.
		18		10		0								8% rec / very broken & rubble
		18		20		0								reasonable recovery
		18		20		31BIR								} very broken 50% rec
		19		20		31BIR								
		19		20		31BIR								reasonable recovery
		19		20		31BIR								} pyritic sand / mud 66% rec.
		19		20		31BIR								
		19		20		31BIR								very broken & rubble / rec OK
		110		15		2								} mod. broken
		110		15		2								
		110		17		1								} very broken & rubble / rec. OK
		110		17		1								
		110		18		2								} mod. broken / rec OK
		111		11		0								
		111		11		1								} rubble to sand / rec OK
		111		11		0								
		111		18		0								} mod. broken / rec OK
		112		20		0								
		112		20		0								} rubble
		112		20		0								
		114		10		0								} thin rubble
		114		10		0								
		114		45		5								} rubble
		114		45		5								
		117		16		9								} intact to mod. broken
		117		16		9								
		119		16		5								} very broken & rubble
		119		16		5								
		119		17		5								} 3 cm gouge
		119		17		5								
		120		11		5								} mod. broken
		120		11		5								
		120		13		0								
		120		13		0								
														EOH

PROJECT VANGORDA DRILLHOLE NO. 87V-02 COORDINATES: N \_\_\_\_\_ DATE Nov 17 1987  
 LOCATION \_\_\_\_\_ HOLE SIZE NQ E \_\_\_\_\_ PAGE    of     
 LOGGER \_\_\_\_\_ INCLINATION -90° 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		COMMENTS	
		LENGTH	%	LENGTH	%		CATEGORY	NO.			DEPTH	ANGLE	NO.	FREQ.	NO.	FREQ.		
70																		TRIMMED
75		0.3		0														
80		2.1		0.4														
82		0.5		0														
87		4.2		0														
92		6.0		0														
96		1.8		0														
99		3.6		0.5														
102		1.8		0														
105.5		2.4		0														
110.5		5.3		0														
111.5		1.0		0														
116.5		6.1		1.3														
119.5		3.6		0.8														
123		3.8		1.0														
128		5.5		3.6														
130		1.8		1.5														
131		0.5		0.4														
136		5.4		4.2														
141		5.5		2.8														
145		4.1		2.5														
146		1.3		0.7														
149		2.6		1.4														
152		3.2		2.4														
157		5.3		4.3														
162		5.1		2.6														
167		5.3		2.5														

Fig. 1. Typical rock mechanics core log.

PROJECT VANGORDA DRILLHOLE NO. 87V-02 COORDINATES: N \_\_\_\_\_ DATE Nov 17 1987  
 LOCATION \_\_\_\_\_ HOLE SIZE NQ E \_\_\_\_\_ PAGE    of     
 LOGGER \_\_\_\_\_ INCLINATION -90° 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.		
172	5.0			2.3														
177	5.1			3.2														
182	5.0			0.7														
187	5.4			1.1														
192	4.8			1.6														
197	5.4			3.4														
202	4.5			1.2														
205	3.0			1.5														

EOH

Fig. 1. Typical rock mechanics core log.



**3**

DIAMOND DRILL CORE LOG

Date: \_\_\_\_\_

Hole Number: 87V-03

Reference Fabric Orientation Diagram:

Project: 1987 Vangorda Drilling

Location: Vangorda Deposit

Claim: \_\_\_\_\_

Terr. Plane  
Co-ords.: 6903267.09 N  
6903266.58

594104.97 E  
594105.44

Grid  
Co-ords: 8 E / 0.5 N

Elevation: 1153.47  
1153.58

All symmetry determinations looking

Total Depth: 206 feet (62.8m)

NW with 52 dipping

Inclination: -90° (vertical)

SW with dip azimuth 220.

Purpose: test high grade core and provide metallurgical samples

Reason hole  
Terminated: drilled through high grade into low grade 4EC

Logged by: CVR/LCO

Date(s) Logged: OCT 10/87

Drilling  
Contractor: ARCTIC DIAMOND DRILLING

Hole  
Cemented: No Steel  
down Hole: No

Size	CORE From	To	Collar Cased and Capped: <u>No</u>
<u>NW</u>	<u>0</u>	<u>40</u>	
<u>NR</u>	<u>40</u>	<u>206</u>	

Assay Lab: MINE

Certificate No's: \_\_\_\_\_

Started: OCT 2/87 Completed: OCT 4/1987

CURRAGH RESOURCES INC.

DDH B7V-03  
2 8

Diamond Drill Core Log

Date: \_\_\_\_\_ Logged By: \_\_\_\_\_

Code	Drillhole	Elevation	Northing	Easting	Units (feet/metres)	R.F.E.
1	2	8	10	16 17	24 25	32 34
T	B7V-03	11153.5	903267.1	1594105.0		5.2

Code	Drillhole	Depth	Zenith Angle	True Azimuth	Comments					
1	2	8	10	14	22	26	28	32	34	56
R	B7V-03	100	180.0	0.0	AT COLLAR					
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
		No DOWNHOLE SURVEYS		
		HOLE IS IT WATER @ 94 FEET		

FEET

DDH 87U-03  
2 1 8CURRAGH RESOURCES INC.  
Lithologic LogPage 3 of     Date: 05/0/87 Logged By: CR/LCP

Code	From	To	Recov.	No.	Unit	Description
L	10 0	16 0	22 24	1	#	No recovery - fractured
L	14 0	18 16	22 24	2	#	OVERBURDEN - TILL Pebbles to boulders up to 30 cm thick in mud matrix. Mud contains numerous pebbles 1 mm - 2 cm across. Most boulders are 10AB Anvil Batholith granite and lesser SG metabasite. TOI - 45' pebbles & some mud (1' core) / 45-52 - 1' core / 52-60 - 5.5' core / 60-66 - 5.5' core / 72 - 5.5' core / 72-78 - 5' core / 78-82 - 2' core w/ almost no mud / 82-86 1' core consisting dominantly of pebbles & boulders - essentially no mud
L	18 16	19 11 4	22 24	3	4E10#	±6 (4G4 8# minor) 80:20 slightly oxidized Mixed unit - massive, homogeneous, calcareous, fine-grained, pyritic sulphides 0.2' - 0.8' thick. Calcite disseminated in matrix. Other rock type is thinly laminated, PS2-foliated basitic sulphides w/ minor magnetite. 4E brassy yellow w/ minor orange-yellow iron weathering stains on some surfaces. 4G has coarse dissem. py. & has overall brown-grey colour. Calcite content of basitic intervals is less. Overall grade est 7% (Pb+Zn). Upper contact lat in rubble / bottom contact gradational. Locally minor dolomite clasts 1mm - 1cm across. TOI - 88 rubble to very broken / 65-70% recovery / 88-EOI moderately broken, recovery reasonable.
L	19 11 4	19 18 5	22 24	4	4G4#	8 slightly oxidized Thickly laminated, PS2 foliated, variably calcareous, variably pyritic, basitic massive sulphides. Small magnetite blebs in minor amounts & disseminated "invisible". Locally minor iron-stained weathered surfaces. 10cm gtz veins @ 92.5' w/

DDH B.F.V.-0.3  
2 8CURRAGH RESOURCES INC.  
Lithologic LogPage 4 of     Date: Oct 10/07 Logged By: CR/KCP

Code	From	To	Recov.	No.	Unit	Description
	10 14 16	20 22 24	26 28 30	34 35		
				4		minor py and calcite Calcite disseminated in matrix in 5-10cm intervals It locally forms thin bands and layers Commonly more pyritic bands are more calcareous Lower contact marks end of calcareous intervals Estimated grade 14% (Pb+Zn) Pyrite content 15-20% Core mod. broken / rubble 95-96 / no fault / recovery TOI - 95 80% ; 95-EOI 85% Core lost @ 95-96.
L	19185	<sup>(32.1)</sup> 110153		5	HIG14	8 Minor Thinly laminated, PS2 foliated, variably pyritic, noncalcareous, baritic massive sulphides. Contains clots of magnetite 0.5mm to 1cm in diameter. Pyritic intervals 1mm - 1.5cm thick. Green chloritic phyllite associated w/ pegmatitic qtz & some sulphide bands 100.1-101.1 Porous in this interval. - probably metabasite Unit mod broken - recovery OK. Grade estimated 17% (Pb+Zn) Py content 15%
L	110153	<sup>(34.2)</sup> 11123		6	H1E101	1 Minor Hard, fine-grained, slightly siliceous, massive, noncalcareous, pyritic sulphides. Brassy yellow colour No magnetite. Near EOI has 2 2" bands of base-metal rich 2D Upper contact sharp Lower contact sharp Qtz as thin bands 1-2mm thick & as clots / blebs Estimated grade 2%. Core intact - recovery good
L	11123	<sup>(35.3)</sup> 11178		7	H1A14#	MINOR Hard, carbonaceous, pyritic, ribbon-banded qtzite Thin qtz-sphalerite bands define microlithons Thicker (1-3cm) qtz-pyrite bands are parallel S2. Slightly calcareous w/ calcite in microlithons. Estimated grade 9% (Pb+Zn)

CURRAGH RESOURCES INC.  
Lithologic Log

Code	From	To	Recov.	No.	Unit	Description
	10 14 16	20 22 24	26 28 30	34 35		
						S2 folia black & rubs off easily on hands Bottom of top contact sharp Core intact - recovery OK. Estimated py 10%
L	11178	<sup>(36.6)</sup> 11210	2	18	41E01	Brassy yellow, hard, fine-grained, slightly siliceous pyritic massive. 5" Has thin bands of coarser grained base-metals 1-2mm thick distributed every 0.1 foot - parallel P52. 118.6 has thin 4A band parallel S2 (0.1 foot thick) 118-118.4 and 120.0-120.2 are metabasites White and green striped chloritic phyllite which is slightly dolomitic. Estimated grade 2-3% (Pb+Zn) Upper contact sharp lower contact gradual to 4A Intact w/ good recovery Pyritic nonchalcosum
L	11210	<sup>(39.1)</sup> 11218	2	19	41A14#	MINOR Similar to Unit # 7(112.3-117.8) Pyrite - pt bands range from 1mm - 5cm thick parallel S2. Estimated grade 10% (Pb+Zn) Py 12-15% Py > sphal Py bands thicken & close together at bottom of interval Calcite in microcliffs & small vcutting fractures Recovery OK - core intact
L	11218	<sup>(40.5)</sup> 11313	0	110	41E101	MINOR Nonchalcosum, brassy yellow, hard, fine-grained, slightly siliceous, pyritic sulphides. It forms clast 1mm - 1cm across disseminated throughout. Homogeneous Boring Estimated grade 1% (Pb+Zn) Upper & lower contact sharp Core intact / recovery 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		
L	11313.0	<sup>(41.9)</sup> 11315.9		111	141G141B	(3C #) 50:50 Mixed unit Top & bottom of interval dk green and white striped chloritic phyllite. Dolomitic 1.3' at bottom and 0.8' near top. Other lithology is fine-grained, thickly laminated, pyritic basaltic sulphides. Contains magnetite as tiny blebs. Minor qtz as clasts ranging from <1mm - 6mm. Irregular pegmatitic qtz - dolomite vein. Hem thick @ 133.8. Core intact / recovery good. Estimated grade in sulphides 12-14%.
L	11315.9	<sup>(43.4)</sup> 11425		112	141G141B	Thickly laminated, non-calcareous, pyrite-banded basaltic sulphides. Pyrite bands vary in thickness 1mm - 2.5cm / pyrite in bands 85-90%. Magnetite irregular clots from <1mm - 2.5cm across. Minor qtz in small bands & clasts parallel SZ. Bands 1-2mm thick. Honey-coloured sphalerite. Estimated grade 17% (Pb+Zn). Core intact - recovery good.
L	11412.5	<sup>(45.0)</sup> 11419.6		113	141G141B ± #	Minor Similar to last unit #12 (133.9 - 142.5) only slightly calcareous. Pyritic bands also in this interval. Estimated (Pb+Zn) 15%. Core intact w/ good recovery.
L	11419.6	<sup>(46.8)</sup> 11513.6		114	141G141B #	Less pyritic banding than last 2 units. Qtz as thin bands & clasts. Moderately to very calcareous. Calcite in clots & bands parallel SZ. Calcareous bands <1mm - 2mm thick. Vigorous reaction to 10% HCl. Definite disseminated magnetite blebs 20% (Pb+Zn). Core intact / recovery good. Abundant honey-coloured sphalerite.

Code	From		To		Recov.		No.		Unit		Description
	10	14	16	20	22	24	26	28	30	34	
L	115	36	116	09			115		41D	417	# 9 MINOR Mottled texture w/ qtz-py-pa-sphal-gal-cc. Clasts and bands of qtz in sulphidic matrix. Clasts & bands of calcite also present. Minor spy in xcutting fractures in qtzose zones S= flowing around qtzose zones P <sub>2</sub> > py Estimated grade 14% (Pb+Zn) Py content ~ 10% One spot qtz clast broken in 2 pieces & only moved slightly. Core intact recovery good. Top contact sharp. Bottom contact gradational. Only trace of magnetite.
L	116	09	116	45			116		41D	#	[423 #] Abundant qtz clasts & lesser calcite clasts in pyritic sulphidic matrix. Magnetite bands & clots present. Calcite clasts range from 1mm-2cm across. Very minor pa in sulphidic. At EOT have pyritic qtz vein/pod 5cm thick w/ coarse steel grey galena. Upper contact marked by less pa and lower grade. Estimated grade 8% (Pb+Zn) Py content 20%. Lower contact gradational & textural.
L	116	45	118	05			117		41C	318	# MINOR Thickly laminated, brownish grey-brown yellow, hard, pyritic & stite. Large magnetite aggregates-clot-bands range from 1mm-2cm thick. Py as diffuse laminae which are fine-grained. Coarse euhedral py in qtzose areas. Py content 40% Grade 4% (Pb+Zn) Minor calcite present locally. Core intact - recovery excellent.

Code	From				To				Recov.				No.				Unit	Description			
	10	14	16	20	22	24	26	28	30	34	35	10	14	16	20	22			24	26	28
L	118	105	121	106	0							1/18								41C13	# MINOR = B MINOR = 9 MINOR
																					Thickly banded, very pyritic gte. Pyritic bands 1cm - 30cm thick. Magnetite as small blebs in minor units. Pyritic bands have finer-grained py - Py in phase areas as discrete, disseminated slightly coarser grained. Very minor cpg in cutting fractures in phase zones. Very minor calcite in more phase areas. Minor thin micaceous sh folia in phase regions. Core intact / recovery good. Estimated grade 2-3% (Pb+Zn)
																					206 EDH
																					Lithologies symmetrical around 4A (* 9) - probable fold hinge

ASSAY LOG (SAMPLER'S COPY)

CODE	FROM		TO		SAMPLE	INTR.	REC (m)	UNIT				DESCRIPTION		
	10	14	16	20				22	26	28	30		32	34
P	1	18	16	20	111357		136	4	E	10	#			slightly oxidized
P	1	19	14	17	111358		134	4	G	4	#			slightly oxidized
P	1	19	14	17	111359		145	4	G	4	#			slightly oxidized
P	1	19	18	15	111360		142	4	G	4	18			
P	1	19	18	15	111361		140	4	G	4	18			
P	1	11	01	07	111362		143	4	E	01				
P	1	11	09	05	111363		131	4	E	04				
P	1	11	12	03	111364		165	4	A	4	#			
P	1	11	17	08	111365		124	4	E	01				
P	1	11	20	02	111366		143	4	A	4	#			
		11	23	07	111367		145	4	A	4	#			
		11	28	02	111368		142	4	E	01				
		11	33	00	111369		136	4	G	13	K			460
		11	35	09	111370		137	4	G	4	18			
		11	39	02	111371		137	4	G	4	18			
		11	42	05	111372		141	4	G	4	18			
		11	46	00	111373		139	4	G	4	18			
		11	49	06	111374		142	4	G	4	18			
		11	53	06	111375		133	4	D	4	17	#		
		11	56	08	111376		143	4	D	4	17	#		
		11	60	09	111377		134	4	D	#				
		11	64	05	111378		151	4	C	3	18			
		11	68	07	111380		157	4	C	3	18			
		11	74	02	111379		163	4	C	3	18			
		11	80	05	111381		151	4	C	3	1			
		11	85	05	111382		143	4	C	3	1			
		11	90	02	111383		152	4	C	3	1			
		11	95	06	111384		154	4	C	3	1			
		12	01	01	111385		159	4	C	3	1			
		12	01	01										



Fault Log

Code	FROM	TO (At)	Feature	REG	UPPER Dip Direct	INTERNAL Dip Direct.	LOWER Dip Direct	Description
1	10	14 16	20 22 24	26	28	32 34	38 40	44
F	1401	1410	IP0					Triconed - no recovery
F	1410	1450	IP1					20% core recovery in till
F	1450	1520	IP1					14% recovery in till
F	1520	1610	IP6					69% recovery in till
F	1610	1720	IP9					91% recovery in till
F	1720	1780	IP8					83% recovery in till
F	1780	1820	IP5					50% recovery in till
F	1820	1860	IP2					25% recovery in till
F	1860	1880	3R4B6					rubble to v. broken / 65-70% recovery
F	1880	1914	2B					mod. broken - recovery reasonable
F	1914	1950	2B8					mod. broken - 80% recovery
F		1925	11Q					10cm grt veins
F	1950	1960	R					rubble
F	1960	1985	2B8					mod. broken - 85% recovery
F	1985	11053	2B					mod. broken - recovery OK
F		11338	11Q					4cm thick grt-dolomite vein
F		11645	11Q					5cm thick grt-galena veins
F	112182	11645	ID					clasts of grt & calcite in sulphide matrix
								EOH

PROJECT \_\_\_\_\_ DRILLHOLE NO. 87V-03 COORDINATES: N \_\_\_\_\_ DATE Nov 26 1987  
 LOCATION \_\_\_\_\_ HOLE SIZE NCA E \_\_\_\_\_ PAGE    of     
 LOGGER \_\_\_\_\_ INCLINATION -90° ELEVATION \_\_\_\_\_



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**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		COMMENTS	
		LENGTH	%	LENGTH	%		CATEGORY	NO.			DEPTH	ANGLE	NO.	FREQ.	NO.	FREQ.		
40																		TRICORNERED NO RECOVERY
45		0.5		0														
52		1.0		0														
60		5.5		0														
66		5.0		0														
72		5.0		0														
78		4.9		0														
82		2.0		0														
86		1.4		0														
87		0.4		0														
88		0.7		0														
91		2.6		1.2														
95		4.2		0.9														
98		2.8		0.9														
101		3.4		1.0														
106		5.2		2.6														
111		5.0		5.0														
116		5.2		2.5														
121		5.0		1.1														
126		4.6		2.1														
131		4.4		3.8														
136		5.0		1.7														
141		5.0		2.3														
146		5.0		4.3														
151		5.2		5.0														
156		4.8		4.1														
161		5.2		4.2														

Fig. 1. Typical rock mechanics core log.

PROJECT \_\_\_\_\_ DRILLHOLE NO. B7V-63 COORDINATES: N \_\_\_\_\_ DATE Nov 20 1987  
 LOCATION \_\_\_\_\_ HOLE SIZE NQ E \_\_\_\_\_ PAGE    of     
 LOGGER \_\_\_\_\_ INCLINATION -90° ELEVATION \_\_\_\_\_



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 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		COMMENTS	
		LENGTH	%	LENGTH	%		CATEGORY	NO.			DEPTH	ANGLE	NO.	FREQ.	NO.	FREQ.		
165		3.8		3.4														
170		5.2		4.2														
175		5.3		3.8														
180.5		5.2		5.2														
185.5		5.0		5.0														
190.5		5.0		4.7														
196		4.6		3.5														
200.5		5.0		4.1														
206.0		5.3		4.3														

Fig. 1. Typical rock mechanics core log.

EDH

4

DIAMOND DRILL CORE LOG

Date: \_\_\_\_\_

Hole Number: 87V-04

Reference Fabric Orientation Diagram:

Project: 1987 Vangorda Drilling

Location: Vangorda Deposit

Claim: \_\_\_\_\_

Terr. Plane Co-ords.: 6903248.45 N

594081.49 E

Grid Co-ords: 08E / 0.5S (+-0.5)

Elevation: 1152.59

All symmetry determinations looking

Total Depth: 292 feet (89.0m)

NW with 52 dipping

Inclination: -90° (vertical)

SW with dip azimuth 220.

Purpose: test high grade core and provide metallurgical samples

Reason hole Terminated: drilled through ore into altered phyllite

Logged by: LCP /CVR

Date(s) Logged: OCT 10-15 /87

Drilling Contractor: ARCTIC DIAMOND DRILLING

Hole Cemented: No Steel down Hole: No

Size	CORE From	To	Collar Cased and Capped:
<u>NW</u>	<u>0</u>	<u>90</u>	<u>No</u>
<u>NW</u>	<u>90</u>	<u>292</u>	

Assay Lab: MINE

Certificate No's: \_\_\_\_\_

Started: OCT 4/87 Completed: OCT 7/87

DDH BZV-04  
2 8

Diamond Drill Core Log

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	BZV-04	11152.6	903248.4	594081.5		52

Code	Drillhole	Depth	Zenith Angle	True Azimuth	Comments
I	2 8 10 14 22 26 28 32 34 56				
R	BZV-04	00	180.0	0.0	AT COLLAR
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
I	2 8 10 56	
		WATER DISCH 1106'-1116' AND 1121'-1125'

Code	From				To				Recov.	No.	Unit	Description
	10	14	16	20	22	24	26	28				
		100		190	0					1	#	Triconed. No Recovery Overburden
		1910		110	65					2	#	Overburden TILL
												Boulders + Pebbles, dominately 10 AB - Anvil Barholith Below
												101 These also have mud/clay matrix. Recovery of mud matrix
												increases down the hole
												? - 91 small pebbles atonable recovery / 91-101 one
												foot of boulders + pebbles / 101-106 1 1/2' boulders in mud/
												clay matrix / 106-FOI mud + boulders - recovery uncertain - assumed
												to be reasonable.
		110	65	111	133					B	4G48	(4H4)(4E0)(4H#) 41:37:13:9 mod. oxidized
												Very mixed unit, problems increased due to poor core
												recovery. / FOI - 109: 4H4 → irregular clasts of qtz, mag, py in a
												fine grained po matrix. / 109-111.5: 4G48 → pebbles of Baritic
												sulphides with minor dss py, small mag. blebs / 111.5-112.1:
												4H# → micro buckshot py + small calcite clasts dss. through
												fine grained po ground mass. / 112.1-113.0: 4E0 → 1 to 2mm
												clast dolomite in qtz disseminated through fine grained py
												matrix / 113-113.3: Few pebbles of baritic 4G
												Core is rubble with pebbles, partially reground by drill.
												Intervals of sulph mud/sand.
												FOI to 111 2.5' of core / 111-113 2' of core / 113-113.3:
												couple pebbles.
												Pb+Zn ≈ 10%. Near top of hole some weathered.
												Fe orange stained surfaces

Code	From		To		Recov.		No.		Unit		Description
	10	14	16	20	22	24	26	28	30	34	
	1113	1118							4	4E08	
											Fine grained homogenous brassy green py with thin blebs & stringers of black mag    to S <sub>2</sub> . Very minor small gtz. clasts in small to medium ankerite? clasts & lenses. Core is very rubbly broken. T01 - 114.5, 1.3' core   114.5-116, 1.1' core   116-118, 1.8' core   118-118.1, 0.1' core. Contacts hidden in rubble. Pb+Zn 20% at best
	1118	1121							5	4G4B	\$
											Poorly laminated, light reddish-grey PS <sub>2</sub> foliated baritic massive sulphides. Contains wispy Py bands 2mm to 2cm thick generally    to PS <sub>2</sub> . Disseminated small mag blebs. Dol occurs locally as isolated clasts up to 2cm across. Near EOT - small interval which is slightly porous & weathered dolomite? Core is moderately broken. Recovery reasonable. Est. Pb+Zn 16% Py content ~ 15% - 20%
	1129	1132							6	4E4	
											slightly oxidized Sandy, porous, homogenous, pyritic sulphides, very minor dol. clasts. Near EOT pegmatitic gtz clasts associated with thin coarse grained gal vein. Core broken & rubbly. Recovery O.K. Est Pb+Zn 3%
	1132	1137							7	4G4	\$# ± 8
											slightly oxidized Poorly laminated, slightly pyritic, baritic sulph. PS <sub>2</sub> foliated. Locally contains small dol. clasts up to 1cm across.

Code	From		To		Recov.		No.		Unit		Description
	10	14	16	20	22	24	26	28	30	34	
											minor 1-3cm thick intervals contain dress. calcite in matrix. Large qtz clasts are internally fractured with red sphalerite filling fractures. Very minor mag. occurs locally. A 15cm interval at 134 is vuggy possibly due to weathered calcite. Overall colour is brownish-grey Est Pb+Zn 15% P <sub>g</sub> content ≈ 20-25% Core is moderately broken, 1 foot of core loss. Upper content hidden in rubble, lower contact is sharp.
	11317	2	11416	7				18	41E1018		‡ minor (464) 80:20 Mixed unit. Predominantly brassy yellow, fine-grained, massive homogeneous pyritic sulphides. Locally contains small clasts and banded bands of white dolomite clasts up to 1cm across. Locally has intervals w/ numerous small magnetite blebs locally slightly baritic. Grade ranges but generally averages 4% (Pb+Zn) In lesser amounts in pale grey baritic sulphides. Poorly developed compositional banding marked by honey-coloured sphalerite and fine disseminated pyrite. P <sub>g</sub> content ranges from 5-20%. Pyritic bands up to 5cm thick. Major baritic interval 143.5-145'. Grade estimated 17% (Pb+Zn) TOI -138.3 core mod. broken - recov. OK / 138.3-139.0 very broken & rubble recov. OK / 139-143.5 mod. broken to intact - recov. OK / 143.5-145.7 very broken - 1' core lost / 145.7-EOI Intact - recov. OK. No major faults
	11416	7	11510	5				19	41E1119		‡ 6 minor Thickly banded, pyritic massive sulphides 1-4cm bands marked by micro buckshot pyrite disseminated in fine-grained brown sphal-rich

Code	From		To		Recov.		No.		Unit		Description
	10	14	16	20	22	24	26	28	30	34	
											matrix. Minor thin 1cm basitic bands. Contains large clasts of 4C and few pegmatitic white qtz + dolomite. There contains coarse brown-red sphalerite + minor epz on margins & infilling internal fractures. One 4cm clast also has silicified phyllite - subhedral arsenopyrite on margins of this clast. Minor disseminated dolomite in portions of 4E. Estimated grade 12% (Pb+Zn). Core intact except for short rubble @ TOI & EOI
L	115105		115156					110		14E14	(3C \$) 85:15
											Similar to last unit (146.7 - 150.5) only grade is significantly lower. Sphal-rich bands w/ diss py in micro-buckshot texture are only 0.5-1cm thick & more widely spaced. Very minor dolomite clasts. Minor dk grey quartzose 4C0 and pegmatitic white qtz clasts - one clast is 4cm across. Estimated grade 7% (Pb+Zn)
											150.8 - 151.6 consists of noncalcareous, soft, dark green chloritic phyllite w/ 2cm bands of white qtz with minor associated interstitial dolomite. Core intact - excellent recovery
L	115156		116101					111		131C1	(4E0B) 90:10
											Dark green, noncalcareous, soft, massive, P52 foliated chloritic phyllite. Contains 1-2mm thick white qtz bands and stringers w/ minor disseminated dolomite. Qtz bands are folded by S2 (D2). Minor subhedral disseminated py in chloritic phyllite.
											Thin interbeds of hard, noncalcareous, fine to med-grained, brassy pyritic sulfidation. Some interstitial sphal and minor magnetite blebs define P52 foliation. longest interval 15cm. Grade in pyrite estimated 4% (Pb+Zn). Core intact - recov. OK

Code	From			To			Recov.			No.			Unit			Description
	10	14	16	20	22	24	26	28	30	34	35					
L	1160	1	1163	7					112			14E418			9 minor Poorly laminated, hard, pyritic massive sulphides. Thin, poorly defined banding mark by streaky discontinuous sphalerite-rich intervals. Small magnetic streaks/bands also define banding = P52 foliation. Minor isolated HC trace clasts. Some spy infilling fractures w/ fine trace mass. Clasts are up to 2cm across - clast rich intervals occur every 15-30 cm. Upper contact sharp. Lower contact sharp. Core intact - excellent recovery. Estimated grade 6% (Pb+Zn). Unit similar to unit #10 (150.5-155.6)	
L	11613	7	1176	0					113			14G418	(4E68)	88112	Medium grey, poorly laminated very baritic sulphides. Disseminated fine magnetic iron mineral. Diss py generally 10%-30%. Baritic looks to be 50%. Honey coloured sphalerite. Estimated grade 16% (Pb+Zn). Uppermost 20cm porous and vuggy w/ pegmatitic qtz pods. Interval 171.5-173 fine grained, yellow, baritic, pyrite w/ scattered small dolomite clast and magnetic blebs. Lower contact of unit gradational over short distance. TOI-165 Very broken and rubble - recovery OK / 165-171 one reground piece of baritic core 1" long. Driller reports usual machine indications of mismatch were <u>not</u> present. No reason for missing core / 171-173.8 Very broken to locally rubble - recovery OK / 173.8-EOI mod. broken to intact - recovery OK	
L	1176	0	1177	3					114			14E41	SAND (464)	90:10	Medium grained, porous, dk brown yellow, pyrite sand to friable ore. One 2" piece of baritic ore. Estimated grade 6% (Pb+Zn)?? Core rubble and sand. Recovery probably about 80%	

Code	From	To	Recov.	No.	Unit	Description
	10 14 16	20 22 24 26 28 30 34 35				
L	117173	<sup>(56.3)</sup> 118147		115	4E11X	<p>89 Minors ± 3 minors (300) Minors.</p> <p>Hard, fine-grained, brassy yellow, siliceous pyritic massive sulphides. Contains 1-3cm thick bands and clasts of pegmatitic white qtz and white to pale tan dolomite. These typically have small partial envelopes of irregular magnetite grains. Magnetite also forms shealy blebs in matrix.</p> <p>One 5cm dk green, noncalcareous, soft chloritic phyllite @ 131.7 feet.</p> <p>Minors spy in fractures in qtz-dolomite clasts. Last 6" contains calcite clasts, disseminated calcite in matrix, and coarse galena interstitial.</p> <p>Estimated grade 5% (Pb+Zn) - may be much lower. Core intact - recovery excellent.</p>
L	118147	<sup>(57.3)</sup> 118195		116	4C1318	<p>±#</p> <p>Hard, brassy-yellow pyritic quartzite. P<sub>3</sub> fine grained disseminated bands + aggregates in qtzose matrix. Contains 2-4 cm thick pegmatitic white qtz clasts + bands. Mag. present in small irregular blebs. Uppermost 1 foot contains calcite clasts + disseminated calcite.</p> <p>Est P<sub>3</sub> content 50-60% Est Pb+Zn 22%</p> <p>Core beautifully intact. Recovery excellent.</p>
L	118195	<sup>(58.5)</sup> 119200		117	4E101819	<p>(4648) 75:25</p> <p>Dominant type is a fine grained brassy-yellow with large - up to 10 cm clasts of coarse grained white dol + lesser qtz. Irregular mag. blebs associated with dol clasts especially near margins.</p> <p>Est Pb+Zn ≈ 3%</p>

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Lithologic Log

Code	From		To		Recov.		No.		Unit		Description
	10	14	16	20	22	24	26	28	30	34	
											191.4 - EOI a laminated moderately pyritic gres baritic sulphides. Abundant honey coloured sph. Dess. small mag. blebs. Very similar to barite located at 173'. Est Pb+Zn 17-18% high Zn content. Core is intact recovery excellent.
L	119	20	119	65			118		4E10	#B	36 minor Homogeneous py with thin streaks isolated clasts & dess. matrix of calcite. Locally minor streaks outlined by irregular mag. blebs. Minor large gte clasts up to 2cm across. 193.5 - EOI locally baritic, Est Pb+Zn 2% 201 - 196 Intact good rec. 196 - EOI Very rubbly, pebbles of porous py sulphides.
L	119	65	120	16			119		4E14	#B	Texturally looks like a flow breccia with clasts of mag, gte, sph, dol in a fine grained matrix of Py + Dol. Pyrite rich areas exhibit flow banding. Clasts are generally angular. BOI has 3cm thick irregular mag band. at 201, coarse grain gal rich vein Est Pb+Zn 9-10% Soluble iron high, Rec is good, core is intact. → pectite flow breccia possibly because of contrasting mineral strengths

Code	From	To	Recov.	No.	Unit	Description
	10 14 16 20 22 24 26 28 30 34 35					
L	1210116	<sup>64.9</sup> 121130		120	4C3	9 minor [4E1 9 minor]  Dess py aggregates + grains in a grey gtzose matrix. Contains discrete bands + clasts of fine grained gtz. Cpy typically infilling fractures in these grains + clasts. Pyritic bands range from 1/2 cm to 1m in thickness. Margins are diffuse.  Est Ph+Zn 10% Py content ≈ 65-75%.  S <sub>2</sub> folia slightly micaceous - light silvery cream.  Core is intact. Recovery excellent
L	121130	<sup>68.3</sup> 121241		121	4A3	(4C3)  Very hard ribbon banded, carbonaceous pyritic quartzite. 1/2 cm gtz-py ribbons separated by thin carbonaceous folia. Contains 5 to 15 cm thick bands of fine grained Py. Contacts are diffuse + generally    to PS <sub>2</sub> . Locally, the gtzose are dull grey 4C rather than black 4A. This variation appears to be caused by "hydrothermal" alteration of carbon. Minor cpy in X cutting fractures. Upper contact marked by appearance of 4A. Lower contact marked by disappearance of carbonaceous folia. Both contacts are gradational.  70I-216.9 core is intact rec. 100% 216.9 - 217.3 very rubble. Rec. is reasonable 217.3 - EOI intact recovery excellent except for short rubble zone at 221.  Est. Ph+Zn ≈ 3% Est Py content 35-40%

Code	From	To	Recov.	No.	Unit	Description
1	10 14 16 20 22 24 26 28 30 34 35					
L	1214 1	<sup>69.8</sup> 1219 1		1212	A C 3	Moderately pyritic hard grey gtzite. Contains diffuse py bands 2 cm to 15 cm thick. Similar to last unit only carbon is not present. At 226' there is a 10 cm vein of coarse grained dark reddish-brown Sph. Upper contact grad. Lower contact sharp. Some gtzite in lower pyritic intervals. Est Pb+Zn 1% Est Py content 35%
L	1219 1	<sup>70.2</sup> 1230 2		1213	131C13	Dark green, soft, non calcareous, chloritic phyllite with abundant veins + stringers of pegmatitic gte. + calcite. Minor redish Sph & gal infilling fractures. Core intact, recovery is good.
L	1230 2	<sup>85.6</sup> 1281 0		1214	141C13	8 minor & very minor Medium grey hard, moderately pyritic gtzite. These areas contain approx. 5-15% disseminated Py. Locally ribbon banding texture delineated by white gte stringers in a grey pyritic quartzite matrix. Contains pyritic bands up to 50 cm thick. Minor irregular magnetite blebs associated with the pyritic bands. Marginal contacts of these bands are diffuse. Minor pegmatitic gte. clasts & veins. Est Pb+Zn < 1% Est Py content 35% Lowermost 1' is gradational to next unit, becoming slightly softer More micaceous with silvery-cream S <sub>2</sub> folia & Sph, Py, Po stringers // S <sub>1</sub> & S <sub>2</sub>

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CURRAGH RESOURCES INC.  
Lithologic Log

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Date: OCT 11/87 Logged By: LP + C.R

Code	From				To				Recov.				No.				Unit				Description		
	10	14	16	20	22	24	26	28	30	34	35	10	14	16	20	22	24	26	28	30		34	35
																							Core is intact. Recovery is excellent.
L	21811	0	(89.0) 21912	0					1215	B161017													Stringered Moderately soft, medium grey non calcareous phyllite. S <sub>2</sub> folia are silvery-grey. Microolithons are defined by irregular stringers consisting of chlorite, qtz, biotite? Minor isolated py porphyr. Core is intact. Recovery Good. No faults
																							E O H! 292

Code	From				To				Feature	SYM	S <sub>0</sub>		S <sub>1</sub>		S <sub>2</sub>		Description
	10	14	16	20	22	24	26	28			32	34	38	40	44		
S				1117	0	P S R						55	21210			May. banding in 4E	
S				1135	0	P S R						63	21210			Compositional band in 4G	
S				1144	0	P S R						01	21210			" " " "	
S				1149	0	P S R						30	21210			Compositional banding in 4F4	
S				1154	5	P S R						59	21210			Compositional banding in 4E	
S				1174	0	P S R						78	21210			Compositional banding in 4G	
S				1192	0	P S R						59	21210			" " " "	
S				1210	0	P S R						65	21210			P <sub>3</sub> banding in 4C	
S				1216	0	C S R I				510	01010	90	21210			4A banding	
S				1236	0	P S R						610	21210			P <sub>3</sub> banding in 4C	
S				1257	0	P S R						70	21210			" " " "	
S				1272	0	P S R						69	21210			" " " "	
S				1280	0	P S R						75	21210			Micaceous Folia	
S				1292	0	C S R M						79	21210			" "	
S				1290	0	C S R S				317	1210	79	21210			" " + micro lithons	

ASSAY LOG (SAMPLER'S COPY)

CODE	FROM	TO	SAMPLE	INTR.	REC (m)	UNIT	DESCRIPTION
1	10 14 16 20 22 26 28 30 32 34 36 40 42						
	11065	111133	1110114	1	155	4E1GHI	mod. oxidized
	11133	111181	1110115	1	150	4E108	
	11181	11220	1110116	1	136	4E108	
	11220	11254	1110117	1	142	4E108	
	11254	11296	1110118	1	142	4G118	
	11296	11320	1110119	1	126	4E108	slightly oxidized
	11320	11372	111020	1	156	4G14	# ± 8 slightly oxidized
	11372	11422	111021	1	153	4E108	
	11422	11467	111022	1	135	4E108	
	11467	11505	111023	1	141	4E14	
	11505	11556	111024	1	153	4E14	
	11556	11601	111025	1	150	13K18	
	11601	11637	111026	1	136	4E148	
	11637	11710	111027	1	120	4G118	
	11710	11760	111028	1	157	4G118	
	11760	11773	111029	1	116	4E14	sand
	11773	11810	111030	1	139	4E114	# 89 minor ± 3 minor (300) minor
	11810	11847	111031	1	143	4E114	" " "
	11847	11895	111032	1	150	4K138	± #
	11895	11920	111033	1	130	4E108	# (4G48)
	11920	11965	111034	1	152	4E1018	
	11965	12016	111035	1	125	4E118	
	12016	12060	111036	1	142	4C13	
	12060	12097	111037	1	140	4C13	
	12097	12130	111038	1	139	4C13	(4C3)
	12130	12190	111039	1	172	4A13	(4C3)
	12190	12241	111040	1	150	4A13	(4C3)
	12241	12291	111041	1	159	4C13	
	12291	12302	111042	1	111	13C13	
	12302	12348	111043	1	150	4C13	8 minor
	12348	12398	111044	1	150	4C13	
	12398	12438	111045	1	148	4C13	
	12438	12485	111046	1	149	4C13	
	12485	12533	111047	1	150	4C13	
	12533	12581	111048	1	150	4C13	
	12581	12627	111049	1	150	4C13	

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CURRAGH RESOURCES INC.

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Logged by L.P. & C.R.

ASSAY LOG (SAMPLER'S COPY)

Date Oct 11/87 Sampled by       

CODE	FROM		TO		SAMPLE	INTR.	REC (m)	UNIT		DESCRIPTION			
	10	14	16	20				32	36		40	42	
1		1216	2	7	1216	7	2	1110	150	1	14	KB	
		1216	7	2	1217	5	1	1110	150	1	14	KB	
		1217	2	5	1217	6	7	1110	150	1	14	KB	
		1217	6	7	1218	11	0	1110	150	1	14	KB	

CODE	FROM		TO		SAMPLE	INTR.		REC (m)		UNIT	DESCRIPTION	
	10	14	16	20		22	26	28	30			32
		11016	5	11113	3	11014	168	155	1111		✓	
		11113	3	11118	1	11015	148	150	14E1018		✓	
		11118	1	11212	0	11016	139	136	14E1018		✓	
		11212	0	11215	4	11017	134	142	14E1018		✓	
		11215	4	11219	6	11018	142	142	14G1418		✓	
		11219	6	11312	0	11019	124	126	14E10		✓	
		11312	0	11317	2	11020	152	156	14G14	\$ # ± 8	✓	
		11317	2	11412	2	11021	150	153	14E1018		✓	
		11412	2	11416	7	11022	145	135	14E1018		✓	
		11416	7	11510	5	11023	138	141	14E1414		✓	
		11510	5	11515	6	11024	151	153	14E14		✓	
		11515	6	11610	1	11025	145	150	13K18		✓	
		11610	1	11613	7	11026	136	138	14E1418		✓	
		11613	7	11711	0	11027	173	120	14G1918		✓	
		11711	0	11716	0	11028	150	157	14G1418		✓	
		11716	0	11717	3	11029	113	116	14E14		✓	
		11717	3	11811	0	11030	137	139	14E1114	\$ 89 minor ± 3 minor (30) minor	✓	
		11811	0	11814	7	11031	137	148	14E1114	" " "	✓	
		11814	7	11819	5	11032	148	150	14C1318	± #	✓	
		11819	5	11912	0	11033	125	130	14E1018	\$ (4648)	✓	
		11912	0	11916	5	11034	145	152	4E101418		✓	
		11916	5	12011	6	11035	151	125	4E111618		✓	
		12011	6	12016	0	11036	144	142	14C13		✓	
		12016	0	12019	7	11037	137	140	14C13		✓	
		12019	7	12113	0	11038	133	139	14C13	(4C3)	✓	
		12113	0	12119	0	11039	150	172	14A13	(4C3)	✓	
		12119	0	12211	1	11040	151	150	14A13	(4C3)	✓	
		12211	1	12217	1	11041	150	159	14C13		✓	
		12217	1	12310	2	11042	111	111	13C13		✓	
		12310	2	12314	8	11043	146	150	14C13	8 minor	✓	
		12314	8	12319	8	11044	150	150	14C13		✓	
		12319	8	12413	8	11045	158	148	14C13		✓	
		12413	8	12418	5	11046	147	149	14C13		✓	
		12418	5	12513	3	11047	148	150	14C13		✓	
		12513	3	12518	1	11048	148	150	14C13		✓	
		12518	1	12612	7	11049	146	150	14C13		✓	



Fault Log

Code	FROM		TO (At)		Feature	REG	UPPER Dip Direct		INTERNAL Dip Direct.		LOWER Dip Direct		Description
	10	14	16	20			22	24	26	28	32	34	
F	1101	11910	0	11IP	0								Triconed - no recovery
F	11910	0	11911	0	11P	0							few pebbles - abominable recovery
F	11911	0	111011	0	11P	0							10% recovery of pebbles in fill
F	111011	0	111016	0	11P	3							30% recovery in fill
F	111016	5	11113	3	13IR								rubble w/ pebbles
F	111016	5	11111	0	11P	5							55% recovery
F	11113	0	11113	3	11P								few pebbles recovered
F	11113	3	11118	1	31BIR								very rubbly & broken
F	11114	5	11116	0	11P	7							73% recovery
F	11116	0	11118	0	11P	9							90% recovery
F	11118	1	111219	6	12IB								mod. broken w/ reasonable recovery
F	111219	6	11132	0	13IR								broken & rubbly w/ OK recovery
F	11132	0	111317	2	12IB	8							81% recovery
F	111317	2	111318	3	12IB								mod. broken - recovery OK
F	111318	3	111319	0	31BIR								very broken & rubbly / recovery OK
F	111319	0	111413	5	11B								mod. broken to intact / recov OK
F	111413	5	111415	7	13IB	5							very broken / 54% recovery
F	111415	7	111416	7	11R								rubble
F	111416	7	111510	5	11R								rubble
F	111510	5	111615	0	31BIR								v. broken & rubbly - recovery OK
F	111615	0	111711	0	11IP	0							1" core - no indications of mismatch
F	111711	0	111713	8	31BIR								very broken to locally rubbly - recovery OK
F	111713	8	111716	0	11B								mod. broken to intact
F	111716	0	111717	3	31BIR	8							core rubble & sand recovery 80%
F	111916	0	111916	5	13IR								very rubbly
F	111916	5	121011	6	11D								ductile flow bxa texture
F	121011	6	121117	3	13IR								very rubbly - reasonable recovery
F	121117	3	121211	0	11R								short rubbly interval
F	121211	0	121216	0	11Q								10cm vein of coarse sphalerite
F	121216	0	121310	2	11Q								abundant veins & stringers of pyralites etc + calcite
													EOH

PROJECT VANGORDA  
 LOCATION \_\_\_\_\_  
 LOGGER C. REED

DRILLHOLE NO. B7V-04 COORDINATES: N \_\_\_\_\_  
 HOLE SIZE NQ E \_\_\_\_\_  
 INCLINATION \_\_\_\_\_ ELEVATION \_\_\_\_\_

DATE OCT 15 1987  
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**PITEAU & ASSOCIATES**  
 GEOTECHNICAL CONSULTANTS  
 VANCOUVER CALGARY

**GEOTECHNICAL CORE LOG**

*IN FEET*

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.	
101	10	0.7		0.4													
106	5	0.6		0													
111	5	1.5		0.4													
113	2	1.0		0													
114.5	1.5	0.6		0													
116	1.5	0.6		0													
118	2	1.2		0													
121	3	2.7		1.7													
125	4	3.8		1.8													
130	5	4.7		1.7													
132	2	1.4		0													
137	5	4.8		3.8													
141	4	3.7		1.5													
145	4	2.8		1.7													
150.5	5.5	5.0		3.5													
154.5	9.0	4.0		3.4													
160	5.5	5.2		2.6													
165	5.0	4.2		3.4													
171	6.0	1.01		0													
173	2.0	1.1		0													
177	4.0	3.2		1.8													
181	4.0	4.0		2.7													
186	5.0	5.0		5													
191	5.0	5.0		4.2													
196	5.0	5.0		4.8													
201	5.0	2.5		1.3													
206	5.0	4.7		4.1													

Fig. 1. Typical rock mechanics core log.

PROJECT VANGUARD  
 LOCATION \_\_\_\_\_  
 LOGGER CVR

DRILLHOLE NO. 87V-04 COORDINATES: N \_\_\_\_\_  
 HOLE SIZE NQ E \_\_\_\_\_  
 INCLINATION 90° ELEVATION \_\_\_\_\_

DATE OCT 15 1987  
 PAGE     of    



**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.		
211	5	4.7		3.9														
213	2	2.0		1.5														
218	5	5.0		4.6														
221	3	2.6		2.0														
226	5	5.0		4.6														
231	5	5.0		3.5														
236	5	4.9		4.4														
241	5	4.9		4.2														
251	10	10.0		9.0														
256	5	5		5.0														
261	5	5		5.0														
266	5	5		3.4														
271	5	4.9		3.4														
278	7	7		6.0														
281	3	3		2.4														
286	5	4.8		2.9														
291	5	4.9		3.2														
292	1	1		0.8														

Fig. 1. Typical rock mechanics core log.

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DIAMOND DRILL CORE LOG

Date: \_\_\_\_\_

Hole Number: 87V-05

Reference Fabric Orientation Diagram:

Project: 1987 Vangorda Drilling

Location: Vangorda Deposit

Claim: \_\_\_\_\_

Terr. Plane Co-ords.: 6903289.02 N

594085.94 E

Grid Co-ords: 07E / 0.5 N

Elevation: 1153.10

All symmetry determinations looking

Total Depth: 311 ft (94.8 m)

NW with 52 dipping

Inclination: -90° (vertical)

SW with dip azimuth 220.

Purpose: test high grade core and provide metallurgical samples

Reason hole Terminated: drilled through ore into phyllite

Logged by: CVR / LCP

Date(s) Logged: OCT 11-13 / 87

Drilling Contractor: ARCTIC DIAMOND DRILLING

Hole Cemented: no Steel down Hole: no

Size	<u>CORE</u> From	To	Collar Cased and Capped: <u>No</u>
<u>NW</u>	<u>0</u>	<u>70</u>	
<u>NQ</u>	<u>70</u>	<u>311</u>	

Assay Lab: MINE

Certificate No's: \_\_\_\_\_

Started: OCT 8 / 87 Completed: OCT 9 / 87



FEET

DDH 87V-05  
2 8CURRAGH RESOURCES INC.  
Lithologic LogPage 3 of \_\_\_\_\_Date: Oct 11/87 Logged By: CR/LCP

Code	From				To				Recov.	No.	Unit	Description	
	10	14	16	20	22	24	26	28					30
L		10	0		(21.3) 17	10					11	#1	Triconed - no recovery
L		17	10	0	(24.6) 18	08					12	#1	Overburden Pinkish, micaceous, 10-15 granite boulders 1'-1 1/2' thick No matrix mud recovered Recovery unknown but assumed extremely poor.
L		18	10	8	(25.3) 18	13	0				13	14H14f	slightly oxidized Massive po sulphidation containing abundant dolomite and gte clasts ranging from <1mm to 5-6mm across Also contains minor py and magnetite locally slightly porous Overall colour bronze w/ white speckles Estimated grade 8-9% (Pb+Zn) Py less than 5%. Core intact - rubble in small sections / recovery looks OK Probable ductile flow bra Some clasts are angular
L		18	13	0	(28.3) 19	12	9				14	14G14B	# \$ (4H4 \$) (4E4B \$) 60:35:5 slightly oxidized Mixed bag Dominantly similar po-unit as described for # 3 (80.8-83.0) w/ intervals of thickly banded basitic sulphidation Basitic s <sup>2</sup> exhibit flow bra textures - contain variable size clasts (generally larger than po-unit) larger clasts dolomitic w/ shaly laminated micaceous folia - possible metabasite 5cm long x 3cm across) Po intervals range from few inches to 2' in thickness - basitic intervals have similar thicknesses Some localized, medium coarse grained pyritic bands associated w/ basitic unit Overall a messy unit w/ fast variations. Some broken surfaces have orange-yellow weathering stains. Overall grade 12-15% (Pb+Zn) Py content of basitic 25% & 5-10% in po TOI-85.3 very rubble w/ 70% recovery /

FEET

DDH 87U-05  
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## 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
						85.3-90.1 intact - recovery good / 90.1-90.6 very broken - recovery OK / 90.6-EOI intact w/ good recovery Baritic units have disseminated calcite Baritic also has coarse crystalline dolomitic angular clasts. Near TOI is green band of 4E (5" thick) - also minor 4E bands in baritic
L	9129	<sup>(32.4)</sup> 11016	4	15	41611*	(4E4 * 8) (3C03) 50:50:TRAE slightly oxidized Mixed unit - pyritic & baritic thickly interbedded on scale of 5cm - 1m. w/ baritic dominant at top & pyritic dominant at bottom. Baritic units - Thickly laminated, slightly to moderately calcareous (calcite or dolomite) as bands disseminated in matrix and as clasts from 1mm - 2cm across. Contains pyrite-rich laminae parallel P52 compositional banding. Locally green - probably weathered carbonate. Estimated grade 12% (Pb+Zn) Py 30%, Bas ~ 50% Pyritic units - fine to med grained, slightly calcareous, pyritic 5" Poorly defined banding parallel P52 band on carbonate content & possible gr content. Contains thin clasts & bands of calcite/dolomite range from <1mm - 3mm Clasts range <1mm - 1cm. Thin magnetic blebs & stringers. 4cm metabasite @ 90.6' soft, <sup>slightly</sup> calcareous, dark green illitic phyllite. 105' thin wiggly dolomite vein/fracture @ shallow angle to core axis - extends for 10cm. Estimated grade 4E is 5% (Pb+Zn)
L	111016	<sup>(34.3)</sup> 11124	4	16	41E101\$	6 8 minor slightly oxidized Fine-grained, hard, brassy yellow pyritic massive sulphides. Contains minor, randomly distributed dolomitic clasts which weather to a dull rusty orange. Clast range in size from <1mm to 5cm x 2cm. Dolomite also occurs in minor (1-2mm) fractures/veins cutting P52 Veins sometimes define wiggly linear- weathering zones Very minor gr occur in poorly defined <1mm laminations

Code	From				To				Recov.				No.				Unit	Description						
	10	14	16	20	22	24	26	28	30	34	35	10	14	16	20	22			24	26	28	30	34	35
																								11 PS2. At 111' in 83" interval containing large dolomite clasts 1-5 cm in diameter w/ sulphide flow textures around the larger clast. This 8" interval also has 1mm-4cm baritic high grade bands occur in a mottled pyrite-dolomite matrix. Py content ~ 90%. Pb+Zn estimated grade 2%. Core intact / recovery good
L	11124				11314										17	14G14		(4E0\$8 ± 4 ± 6) (3C\$7) 75:25: TRACE	Dominantly baritic sulphides interbedded w/ lesser amt of pyritic massive S <sup>2</sup> . Banding on scale 5mm-15cm. Gradational contacts. Entire interval slightly calcareous - probably dolomite because of slow response to 10% HCl. Dolomite as small discrete clasts <1mm-4mm. Magnetite as small blebs - more prevalent in pyritic bands. At 117' larger angular clast of mildly calcareous (dolomitic), chlorite-laminated phyllite - possibly highly altered metabasite (3C\$) Chlorite also fills fractures in clast. Thin metabasite @ 129.8' - soft, badly broken, 10cm, light green, chloritic phyllite similar to clast @ 117'. Upper & lower contacts of unit sharp. TOI-115.4 slightly broken to intact - recovery good / 115.4-116.1 very rubble - 70% recovery / 116.1-124.5 intact w/ OK recovery / 124.5-126.2 rubble to mod. broken - recovery 80% / 126.2-EOI core intact - recovery OK. Estimated 10% (Pb+Zn) Py content 30% in baritic					
L	11314				11318.5										18	14A14		IO (4C0\$)(4D0\$)(3C4*) 70:15:15: TRACE	Thinly banded, slightly calcareous, ribbon-banded, carbonaceous quartz S <sub>2</sub> folia are shiny black & readily marks fingers. Py occurs dissem. in siliceous bands ranging 1mm-2cm-6cm in thickness subparallel S <sub>2</sub> . Grain size variable from fine to med-grained. Carbonaceous bands are paper thin - only minor					

FEET

DDH B.F.V.-0.5

## CURRAGH RESOURCES INC.

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## Lithologic Log

Date: Oct 13/87 Logged By: CR/LCP

Code	From		To		Recov.			No.			Unit	Description
	10	14	16	20	22	24	26	28	30	34		
												fine-grained dk grey ptile bands. At 136' 6 cm interval soft, soapy, creamy white, musc-chlorite phyllite - also thin bands @ 137.7' Upper & lower contacts of interval sharp against massive 5' Upper 1.5' is barren w/ only pyrite - rest of interval contains abundant fine reddish-sphal bands. locally carbonaceous bands fade into med gray bands - bleached 4A=4C and 4D - these intervals ~ 10 cm thick. Estimated (Pb+Zn) 7-8% Py content 15-20% Core slightly broken to intact except for thin metabasite zones mod. broken. Recovery OK.
L	111318	5	<sup>(44.7)</sup> 111416	8					19	14E101\$	minoz (4G4 \$ minoz) 75:25	Brassy yellow, hard, fine-grained, pyritic 5". Contains minoz small dolomite clasts and ptz clasts. Clasts <1mm-4cm across. Thick bands of 4G4 140-141, 144-144.7, 145.5-146. Fine-grained, slightly porous, poorly laminated basitic 5". Estimated grade 3-4% - entire grade carried by the basitic intervals. Core intact / mod. broken 143-144.5 recovery good for entire interval.
L	111416	8	<sup>(45.5)</sup> 111419	4					110	141A141\$	minoz (4D4 3 \$ minoz) 70:30	Top 0.8' is poorly banded, med grained, very slightly dolomitic pyritic ptile. Sphal & py bands parallel 52. Pyrite content 25%. Grade 12% Pb+Zn. Gradational contact to ribbon-banded, P52 foliated, carbonaceous, pyritic ptile. Only slightly dolomitic in thin laminae // 52. Py content 15-20%. Grade 6-7% (Pb+Zn). TOI-147.6 intact / 147.6-EOI mod. broken & rubble. Recovery OK for entire unit.

Code	From				To				Recov.		No.		Unit	Description
	10	14	16	20	22	24	26	28	30	34	35			
L	11419	4	<u>46.5</u> 11512	7							111	141E101\$	Minor	
													Hard, fine-grained, homogeneous, pyritic massive S <sup>2</sup> Brassy-yellow colour Contains qtz-dolomite clasts ranging 1mm - 5cm across. Clast randomly distributed. Upper & lower contacts sharp. Core intact - recovery good (Pb+Zn) 1-2% No magnetite	
L	11512	7	<u>50.2</u> 11614	8							112	141G141B	(300\$) 97:03	
													Thickly, poorly laminated, non-calcareous, moderately pyritic, high grade basic S <sup>2</sup> Magnetite as irregular bands and blebs parallel P <sub>S2</sub> and also disseminated in matrix as fine grains. Minor qtz-dolomite clasts up to 15mm across. Heavy coloured sphalerite. TOI-153.3 moderately soft, greenish buff, slightly dolomitic chloritic phyllite. P <sub>S2</sub> foliated w/ some hill qtz veins. Similar chloritic phyllite @ 154.3 ~ 10cm thick - more calcareous than upper unit - better preserved rock texture. TOI-153.9 mod broken - recov OK / 153.9-156 slightly broken w/ metabasite badly broken / 153.9-EOI intact. Recovery OK for entire unit. (Pb+Zn)=15% Py content 20%	
L	11614	8	<u>51.9</u> 11710	2							113	131C101\$	(4643 \$ Minor) 80:20	
													Darkish brown, green & white striped, moderately hard, slightly calcareous metabasite. Green stripes 2mm - 5cm thick. White stripes qtz w/ basalt interstitial white dolomite 1mm - 4cm thick. P <sub>S2</sub> defined in chlorite-rich intervals. Some C <sub>S2</sub> crystalline texture observed locally. 166-167.1 is poorly laminated, moderately pyritic, fine-grained basic S <sup>2</sup> . Upper & lower contacts of basic interval are sharp - well defined. Contains minor magnetite. (Pb+Zn)=15%. Core intact recovery good. Basalt similar to last interval	

## Lithologic Log

Date: Oct 13/87 Logged By: CR/LCP

Code	From		To		Recov.		No.		Unit		Description
	10	14	16	20	22	24	26	28	30	34	
L	11710	2	11714	0				114	14161418	#	Thickly laminated, slightly calcareous, moderately pyritic, lentic 5" Magnetite forms large irregular blebs & bands 2mm - 1cm across. Honey-combed spherulitic Carbonate in clasts and bands up to 1cm thick parallel P52 (Pb+Zn) = 15% Py content 15-20%. Near EOZ have carbonate disseminated in matrix. Core intact - recov good
L	11714	0	11718	0				115	131C1\$1	leopard rock	Mottled "leopard rock" texture caused by dull greyish-green chlorite laminae w/ thick dolomite - ptz laminae/bands. Crementation cleage gives mottled texture Carbonate is white - reacts slightly to 10% HCl ptz-carbonate bands range 1mm - 3cm in thickness Unit moderately soft to moderately hard Minor thin interbeds sulphides 1mm - 1cm present at TOE Core slightly broken to intact - recovery good
L	11718	0	11810	5				116	141H418	\$ MINOR (3C\$) 80:20	Fine grained, bronze-coloured, pyritic 5". Contains numerous ptz, dolomite angular to rounded clasts. 5" flow banding evident One metabasite band @ 178.9-179.8 contains fine po infilling along fractures Some small magnetite clast Py + spy present. Metabasite moderately soft, moderately chloritic - probably large "piece" of metabasite forming last unit. - Textures similar to last unit. (Pb+Zn) = 10% Py content 4-5% Pb content 90% Core intact - recovery good

Code	From		To		Recov.	No.		Unit	Description	
	10	14	16	20		22	24			26
L	118105		118136				117	14E41	\$ 78	
									Mottled, brn to brassy yellow pyritic S <sup>2</sup> . Contains numerous large gt- dolomite clasts and bands up to 5cm across large clast have chlorite, minor spg, minor po infilling fractures. Magnetite blebs on margins of clasts. PSD poorly defined by banding of clasts. po, mag, and sphal stringers/streaks. Pyrite contains disseminated gt in matrix. Overall grade 6% (Pb+Zn). Pyrite content 70% Core intact/recovery good.	
L	118136		121010				118	14C13	\$ 789 MINOR (4C3\$) 85:15	
									Thinly banded, dark brown to brassy grey, hard, slightly calcareous, very pyritic striae. Thin bands based on pyrite content - have irregular diffuse contacts. Dolomite disseminated in matrix & also forms thin clast very elongate in S <sup>2</sup> fltn. Contains minor magnetite, po in variably sized clasts. <1mm - 2cm. Spg in thin stringers scattering S <sup>2</sup> in thicker intervals. Thick intervals 20-30 cm of pyrite striae w/out any base metal S <sup>2</sup> . Avg grade 6-7% (Pb+Zn) Py content 40% Core intact - recovery good.	
L	121010		121061				119	14C1018	→ (4C38) 50:50	
									Poorly banded, brassy-brown grey, noncalcareous, pyritic striae. Some thin micaceous folia are silvery grey. Pyrite as moderately thick bands 2mm-6cm, fine-grained, diffuse borders, parallel PSD. Py also infilling fractures. Py grains med to coarse. More pyritic near bottom of interval. Thin magnetite streaks ass w/ py 1mm-3mm thick. Estimated grade 2% (Pb+Zn). Py content ranges 15-40%. Core intact w/ good recovery except for 10cm interval @ 203' is rubble - not significant. Minor po in fractures.	

## Lithologic Log

Date: OCT 13/87 Logged By: CR/LCP

Code	From		To		Recov.		No.		Unit		Description
	10	14	16	20	22	24	26	28	30	34	
L	121016	1	<sup>(74.9)</sup> 121414	0				1210	14E118	9# Minor	[4C3] \$89 Minor
											Poorly banded, brassy grey, hard, locally slightly calcareous, siliceous pyrite to pyritic glauk. Top 1/2 variably banded py grading into more massive pyritic in lower 1/2. Bands of pyritic 3mm-20cm thick. Borders are diffuse. Py also filling fractures. Thin streaks or blebs of magnetite parallel S2. Cpy in fractures in ptene areas - very minor. Very minor dolomite as poorly defined clasts - poorly defined because of py at margins. Pb+Zn 1-2%. Py content ranges 40-50% @ TOI to 70-80% at EOI. Poorly defined pt clasts throughout interval. Top contact gradational - bottom contact sharp. Ore intact - recovery excellent.
L	121414	0	<sup>(74.6)</sup> 121414	9				1211	14E144	8#	[4J428#]
											Purplish-brown to brassy-yellow poorly banded, hard, pyritic massive 5". Numerous clasts and bands of grey dolomite and to a lesser degree pt. Clast size < 1mm - 3cm across - streaked or elongate subparallel S2. Abundant magnetite in thin bands and blebs/clots forming streaks parallel S2. Sulphides flow around the clasts - foliaform 5" from stringers infilling fractures in clasts. Upper & lower contacts sharp to slightly gradational. (Pb+Zn) = 15% - abundant purplish-brown sphalerite. Py content 40% - 50%. Ore intact - recovery good. Possibly a high grade vein?!
L	121414	9	<sup>(81.2)</sup> 121616	4				1212	14C138	\$9 Minor	
											Poorly banded, hard to very hard, very pyritic glauk. Py as diffuse bands parallel S2 1-2mm - 15cm or more. Also occurs as thin stringers infilling fractures in ptene areas. Locally has large bands and clots/clots of dolomite - up to 4cm across. Reddish sphal associated w/ dolomite clasts.

Code	From		To		Recov.		No.		Unit		Description
	10	14	16	20	22	24	26	28	30	34	
											Minor bull qtz clasts as well. Magnetite abundant as thin bands. Commonly also occurs along cleast margins. Minor spy infilling fractures in qtz areas.
											Overall py content ranges around 60% (Pb+Zn) = 4% Very minor stringers of locally. Core intact - recovery excellent
L	1216	164	1218	123			123		1413	18	\$ minor (10Q#)
											Poorly banded, dull brn to green brownish yellow, hard, pyritic qtz. Abundant pyromorphic qtz-calcite irregular veins subparallel S2, 4-8 cm thick. Veins have chalcite + base metals stringers along fractures. Py forms poorly defined, medium-grained bands w/ diffuse margins parallel S2. Average thickness 1cm. Py has flow textures around large qtz clasts. Paper thin silvery grey micaceous (musc-chlorite) laminae - especially near qtz veins. Magnetite as thin streaks & blebs generally parallel P52. Minor magnetite within pyromorphic qtz veins. Minor dolomite in matrix as small clasts. Both top & bottom contacts gradational (Pb+Zn) = 5% Py content 60%, Core intact - recovery excellent
L	1218	123	1219	141			124		1410	18	# minor [4L 1248 # minor]
											Moderately hard to hard, dull green-brown grey, slightly calcareous qtzite. In detail thinly laminated, - locally calcite defines micro-lithic texture. Moderately pyritic - py as thin sulphides bands 1cm thick parallel S1 and S2. S2 folia are light silvery grey (musc-chlorite). Can see fine crinkle lineations on S2 surface. Minor spy filling fractures. Qtz clasts up to 5cm across - probably bull qtz veins. Last 1' of interval softer - grades rapidly into a phyllite. Minor magnetite in small streaks and blebs

Code	From		To		Recov.		No.		Unit		Description
	10	14	16	20	22	24	26	28	30	34	
											Py content 25-30% (Pb+Zn) = 3-4% This unit starts to take on a foliated phyllitic aspect - transitional to mineralized & silicified waste rock. Core intact except 10cm rubble @ 291 - Recovery good
L	121914	1	121915	6			1215		131C131		(10 & 9) 95105 Dark green, striped, calcareous, moderately soft, chloritic phyllitic. Contains pegmatitic white fts veins 2-4cm thick. Minor disseminated py. Some spg on fractures in fts veins. 5cm broken to rubble zone @ 295.1. Otherwise unit intact & good recovery.
L	121915	6	131012	7			1216		131G1016		[4L2] Moderately soft, noncalcareous, thickly laminated phyllitic. Laminated w/ py laminae 1cm thick parallel S1 and S2. Diffuse margins to py bands. S2 surfaces med-dk silvery grey. Estimated py content 5-6%. No grade in unit. Py bands look to be slightly more chloritic. Py bands locally look like define microclivus w/ S2 cleavage. Core intact - recovery good.
L	131012	7	131110	0			1217		131G1018		[4L6 weak] Moderately soft, noncalcareous phyllitic. Lower py banding present in last unit. Get minor disseminated py. Small cut surface has greenish cast. S2 folia are silvery grey w/ green tint. Estimated py 1% or less. No grade. TOI-304 intact / 304-305.1 med broken, near OK / 305.1-EOI intact except for 309.3 - have 6cm soft phyllitic gouge parallel S2. Recovery OK.
L	131110	0	131111	0			1218		131C131		(3608) 70130 Green striped, calcareous, chloritic phyllitic. Moderately soft. Core intact - recovery good. Last 10cm is 3608.

Code	From			To			Feature	SYM	S <sub>0</sub>		S <sub>1</sub>		S <sub>2</sub>		Description
	10	14	16	20	22	24			26	28	32	34	38	40	
S				26.2 1816	0		PIS12					410	21210		py banding in 4G4
S				27.4 1910	0		PIS12					91	21210		comp. banding in 4G4
S				29.3 1916	0		PIS12					410	21210		py banding in 4G4
S				32.6 11017	0		PIS12					314	21210		qtz/magnet. bands in 4E0
S				38.7 11217	0		PIS12					615	21210		py bandings in 4G4
S				41.1 11315	0		PIS12					71	21210		carbonaceous folia in 4A
S				44.0 11414	5		PIS12					219	21210		comp. banding in 4E
S				49.1 11611	0		PIS12					60	21210		comp. banding in 4G4
S				51.1 11617	5		CS12 I			418	21710	817	21210		metabasite chloritic phyllite
S				52.3 11711	5		PIS12					610	21210		banding in 4G4
S				53.9 11717	0		CS12 Z			213	11810	516	21210		chloritic laminations in 3C could be considered M - S1 nearly ⊥ S2.
S				61.0 12010	0		PIS12					519	21210		Py bands in 4C3
S				65.2 12114	0		PIS12					519	21210		Py bands in 4C3
S				72.2 12137	0		PIS12					518	21210		Py banding in 4C3
S				77.2 12160	0		PIS12					516	21210		Qtz-cc bands in 4C3
S				74.1 12716	0		PIS12					614	21210		py bands in 4C
S				88.7 12911	0		CS12 S			512	31015	714	21210		qtz bands in phyllite
S				94.8 13111	0		PIS12					714	21210		pervasive ftn

ASSAY LOG (SAMPLER'S COPY)

CODE	FROM		TO		SAMPLE	INTR.	REC (m)		UNIT	DESCRIPTION
	10	14	16	20			22	26		
P	1810	8	1813	0	111451	1	12	2	4H41\$1	slightly oxidized
P	1813	0	1817	2	111452	1	14	5	4G418# \$	slightly oxidized
P	1817	2	1910	1	111453	1	13	4	4G418# \$	slightly oxidized
P	1910	1	1912	9	111454	1	13	7	4G418# \$	slightly oxidized
P	1912	9	1917	5	111455	1	14	6	4G41* (4E4*8)	slightly oxidized
P	1917	5	1101	7	111456	1	14	3	4G41* (4E4*8)	slightly oxidized
P	1101	7	11016	4	111457	1	14	7	4G41* (4E4*8)	slightly oxidized
P	11016	4	11019	4	111458	1	13	0	4E101\$1	slightly oxidized
P	11019	4	11112	4	111459	1	13	4	4E101\$1	slightly oxidized
P	11112	4	11117	1	111435	1	14	6	4G41\$1 (4E0\$8)	
P	11117	1	11211	0	111436	1	14	5	4G41\$1	
P	11211	0	11215	4	111437	1	14	4	4G41\$1	
P	11215	4	11219	7	111438	1	14	6	4G41\$1	
P	11219	7	11314	1	111439	1	15	2	4G41\$1	
P	11314	1	11318	5	111440	1	14	4	4A41\$1	
P	11318	5	11412	5	111441	1	14	0	4E41\$1	
P	11412	5	11416	8	111442	1	14	7	4E41\$1	
P	11416	8	11419	4	111443	1	12	6	4A41\$1	
P	11419	4	11512	7	111444	1	13	3	4E101\$1	
P	11512	7	11516	4	111445	1	14	9	4G4181	
P	11516	4	11611	0	111446	1	15	3	4G4181	
P	11611	0	11648	8	111447	1	13	8	4G4181	
P	11648	8	11710	2	111448	1	15	9	3E101\$1	
P	11710	2	11714	0	111449	1	14	0	4G418#	
P	11714	0	11718	0	111450	1	14	2	3E41\$1	
P	11718	0	11810	5	111481	1	13	2	4H4181	
P	11810	5	11813	6	111482	1	12	6	4E4111	
P	11813	6	11817	9	111483	1	14	5	4D31\$1	
P	11817	9	11912	0	111484	1	14	6	4D31\$1	
P	11912	0	11916	3	111485	1	14	4	4D31\$1	
P	11916	3	12011	0	111486	1	14	8	4D31\$1	
P	12011	0	12016	1	111460	1	15	6	4G0181	
P	12016	1	12111	0	111461	1	15	6	4E1181	
P	12111	0	12115	5	111462	1	14	8	4E1181	
P	12115	5	12210	3	111463	1	14	8	4E1181	
P	12210	3	12215	0	111464	1	14	7	4E1181	

DDH B.7.V-0.5  
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**CURRAGH RESOURCES INC.**

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Logged by \_\_\_\_\_

**ASSAY LOG (SAMPLER'S COPY)**

Date \_\_\_\_\_ Sampled by \_\_\_\_\_

CODE	FROM				TO				SAMPLE	INTR.	REC (m)	UNIT				DESCRIPTION
	10	14	16	20	22	26	28	30				32	34	36	40	
P	1212	150	1212	194	1114	615	1		146	4E	1181					
P	1212	194	1231	344	1114	616	1		150	4E	1181					
P	1213	344	1213	387	1114	617	1		146	4E	1181					
P	1213	387	1214	440	1114	618	1		152	4E	1181					
P	1214	440	1214	449	1114	619	1		110	4E	441					
P	1214	449	1214	88	1114	710	1		146	4C	3181					
P	1214	88	1215	32	1114	711	1		145	4C	3181					
P	1215	32	1215	71	1114	712	1		144	4C	3181					
P	1215	71	1216	17	1114	713	1		145	4C	3181					
P	1216	17	1216	64	1114	714	1		149	4C	3181					
P	1216	64	1217	17	1114	715	1		158	4D	3181					
P	1217	17	1217	71	1114	716	1		156	4D	3181					
P	1217	71	1218	23	1114	717	1		154	4D	3181					
P	1218	23	1218	65	1114	718	1		132	4C	10181					
P	1218	65	1218	99	1114	719	1		144	4C	10181					
P	1218	99	1219	41	1114	810	1		143	4C	10181					

Fault Log

Code	FROM		TO (At)		Feature	REG	UPPER Dip Direct		INTERNAL Dip Direct.		LOWER Dip Direct		Description
	10	14	16	20			22	24	26	28	32	34	
F	101	1710	0	W/P	0								Triconed - no recovery
F	1710	1810	8	IP	1								18% recovery in TILL
F	1810	1830	0	1/R	D								ductile flow bxa - massive po minor rubble in sections
F	1830	1912	9	ID									ductile flow bxa
F	1830	1853	3	13R	7								very rubbly - 70% recovery
F	1910	1910	6	13B									very brken - recovery good
F		1195	0	12									10cm dolomite vein
F		1111	0	ID									8" interval of ductile flow bxa
F	1112	1115	4	11B									slightly brken to intact - recovery good
F	1115	1116	1	13R	7								very rubbly - 70% recovery
F	1124	1126	2	R12B	8								rubbly to med. brken - 80% recovery
F	1134	1138	5	11B									slightly brken to intact - recovery OK
F	1143	1144	5	12B									med brken - recovery OK
F	1147	1149	4	21B	R								med brken & rubbly - recovery OK
F	1152	1153	9	12B									med. brken - recovery OK
F		1154	3	13B									10cm badly brken - metabasite
F	1174	1178	0	11B									sl. brken to intact - recovery OK
F	1178	11810	5	ID									5' flow banding w/ silicates in massive po
F	11810	11813	6	ID									
F		1210	30	11R									10cm @ 203' in rubbly
F	1244	1249	0	ID									
F	12616	1282	3	11D									
F		12911	0	11R									10 cm rubble
F		12915	1	18R									5cm brken to rubbly
F	1310	1310	5	12B									med brken - recovery OK
F		1310	8	3	11G			9.9	9.9	9.9			6 cm soft phyllite gouge parallel S2
F													
													EOH

PROJECT \_\_\_\_\_ DRILLHOLE NO. B7V-05 COORDINATES: N \_\_\_\_\_ DATE \_\_\_\_\_ 19\_\_  
 LOCATION \_\_\_\_\_ HOLE SIZE NG E \_\_\_\_\_ PAGE \_\_\_ of \_\_\_  
 LOGGER LCP INCLINATION -90° 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.		
70	70	0		0														<i>Triconed - no recovery</i>
81	11	2		1.4														
84.5		3.4		1.3														
88		3.5		1.8														
91		3.3		2.1														
96		5.4		4.0														
101		4.9		4.1														
106		5.0		3.5														
116		10.1		7.9														
118		1.8		0.4														
121		3.1		1.5														
126		5.2		2.5														
131		5.1		3.2														
136		5.4		2.6														
141		4.7		2.6														
146		5.2		3.3														
151		5.0		2.8														
156		5.8		1.1														
161		5.2		4.6														
166		5.1		5.1														
171		5.1		4.6														
176		5.1		3.9														
181		5.1		3.6														
186		5.0		3.2														
191		5.0		4.5														
196		4.9		4.9														
206		10.3		9.9														

Fig. 1. Typical rock mechanics core log.

PROJECT \_\_\_\_\_ DRILLHOLE NO. B7V-05 COORDINATES: N \_\_\_\_\_ DATE \_\_\_\_\_ 19\_\_  
 LOCATION \_\_\_\_\_ HOLE SIZE NG E \_\_\_\_\_ PAGE \_\_\_ of \_\_\_  
 LOGGER KCP INCLINATION -90° 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.	
211	5.0	5.0		5.0													
216		5.0		5.0													
221		5.0		4.7													
226		5.0		4.2													
231		5.2		4.2													
236		5.1		4.9													
241		4.7		4.5													
246		5.4		4.4													
251		4.8		4.7													
256		5.2		4.9													
261		4.6		4.4													
265		3.7		3.5													
270		5.1		4.0													
275.5		5.3		3.7													
280.5		5.2		5.1													
286		4.8		4.8													
290.5		5.2		4.1													
296		5.3		4.9													
301		5.3		3.6													
304		3.1		2.4													
309.5		5.3		2.0													
311		1.5		1.2													
																	EDH @ 311

Fig. 1. Typical rock mechanics core log.

**6**

DIAMOND DRILL CORE LOG

Date: \_\_\_\_\_

Hole Number: 87V-06

Reference Fabric Orientation Diagram:

Project: 1987 Vangorda Drilling

Location: Vangorda deposit

Claim: \_\_\_\_\_

Terr. Plane Co-ords.: 69083269.98 N

594062.75 E

Grid Co-ords: 07E / 0.55 (= -0.5)

Elevation: 1151.76

All symmetry determinations looking

Total Depth: 331 ft (100.9m)

NW with 52 dipping

Inclination: -90° (vertical)

SW with dip azimuth 220.

Purpose: ore reserve definition + metallurgical samples

Reason hole Terminated: drilled through ore into phyllite

Logged by: LCP + CUR

Date(s) Logged: OCT 14-15/1987

Drilling Contractor: ARCTIC DIAMOND DRILLING

Hole Cemented: No Steel down Hole: No

Size	CORE From	To	Collar Cased and Capped: <u>No</u>
<u>NW</u>	<u>0</u>	<u>82</u>	
<u>NQ</u>	<u>82</u>	<u>331</u>	

Assay Lab: MINE

Certificate No's: \_\_\_\_\_

Started: OCT 10/87 Completed: OCT 12/87



DDH 87 V - 0.6  
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Lithologic Log

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Date: OCT 14/87 Logged By: LCD + CVR

Code	From				To				Recov.				No.				Unit	Description
	10	14	16	20	22	24	26	28	30	34	35	1	2	3	4			
L		0	0		18	2									1	#1	TRICONED - NO RECOVERY	
L		18	12												2	#1	v. Oxidized TILL Cored through 10 AB granite boulders - musc. biotite Anvil Batholith. Lesser amounts of gravel + sand between boulders. Matrix is generally rusty orange. Edges + fracture surfaces on boulders also has a rusty orange coating. Recovery 90-95% boulders up to 5% enclosing fine grain matrix 82-83 80% / 83-85 - 1 foot / 85-90 - 2 feet / 90-96 - 3.7 feet / 96-99 3 feet / 99-103.2 2 1/2 feet	
L		110	13	2											13	#1	TILL mod. oxidized Same as last unit, only matrix is a dull brown + fracture surfaces are more "fresh" i.e. not as heavily oxidized. TOI - 107 Recovery 0.8 / 107-111 1.8 feet / 111-116 2.8 feet / 116-121 4'	
L		112	11	0											14	#1?	[4E4 (4G4)] very oxidized Pebbles, some reground core, pieces of granite boulders + high grade baritic + massive sulphides. Possibly looking at 'floaters' at top of bedrock. Possibly looking at mixtures of ore + granite. Recovery for interval: 0.7 feet	

Code	From	To	Recov.	No.	Unit	Description
	10 14 16 20 22 24 26 28 30 34 35					
L	112130	<sup>(39.6)</sup> 113100		15	14LE4 ±6	<p>Fine grained homogenous non calcareous dark brassy-yellow pyritic sulphides. Poorly defined banding/laminations related to base metal rich streaks. Lesser karitic intervals in bands up to 20 cm thick. These have very diffuse gradational boundaries. Very minor angular calcite clasts / bands generally up to 1cm across. No evidence of orange staining on fracture surfaces.</p> <p>At 126', 15 cm of vuggy Qtz vein with vein banding // to the margins. Estimated Pb+Zn 6% comb.</p> <p>TOI - 125.5 Moderately broken</p> <p>125.5 - 127 Very broken, related to Qtz. vein. Vein is 24° to core axis. No azimuth is possible.</p> <p>127 - FOI Core is intact</p> <p>Recovery is good through entire interval.</p>
L	11300	<sup>(41.0)</sup> 11344		16	14LR ±1±4 (4E0±4) 95:5	<p>Soft, locally very hard, creamy white, generally non calcareous phyllite. Abundant thin fractures infilled with P<sub>2</sub> &amp; locally with base metals. Some intervals are slightly dolomitic. Contains scattered 2-5 cm homogenous, massive py sulphides. S<sub>2</sub> dolia are light creamy-white with slight greenish tinge. Highly altered phyllite. Possibly originally a metabasite??</p> <p>TOI - 131 Very broken</p> <p>131 - 133.5 Moderately broken</p> <p>133.5 - FOI very broken → rubble partly related to phyllite + regmatitic Qtz veins. Recovery O.K. No major weathering seen.</p>

Code	From				To				Recov.				No.				Unit				Description		
	10	14	16	20	22	24	26	28	30	34	35	10	14	16	20	22	24	26	28	30		34	35
L	1	2	4	4	14	14	12													17	4E4	16	8 minor & very minor slightly oxidized  Fine grained, moderately hard, noncalcareous pyritic sulphides. Diffuse banding - 1 to 5 cm thick based on sph content + locally barite content. Short interval at 138' is slightly porous. Minor mag in extremely tiny blebs & streaks. Very minor angular blebs/streaks of dolomite. 701 - 135 intact 135 - 136 very broken recovery O.K. 136 - 137.5 intact " " 137.5 - 140.0 very broken reasonable recovery 140 - EOF intact good recovery
L	1	4	1	2	14	14	13	3												18	4H1412#	(4E46#)	70:30  Main unit is a fine grained, calcareous massive P <sub>0</sub> with abundant clasts of gtz in fine mag. Some dolomite clasts. P <sub>1</sub> is disseminated in fine subhedral grains giving a 'micro bucketshot' texture. Contacts with 4E unit gradational over a short distance // to S <sub>2</sub> . Pyritic interval is thinly laminated, calcareous. Mag occurs in tiny streaks, contains honey coloured sph. Predominately P <sub>1</sub> interval is 1 foot thick and occurs at the center of the interval. Pb+Zn 12% combined in Pyrite unit Pb+Zn 15% " in P <sub>0</sub> unit. Core is intact. Recovery is good. No real evidence of weathering.

Code	From	To	Recov.	No.	Unit	Description
1	10	14 16	20 22 24	26 28	30 34 35	
L	114133	11529 <sup>(46.6)</sup>			1941G14B1#	slightly oxidized moderately hard, purplish brown, poorly laminated baritic sulphides. Fine grained P <sub>3</sub> disseminated throughout ranging from 10 to 20%. Contains 2-5 mm subangular dolomite clasts, sometimes with small pressure shadows // to S <sub>2</sub> . Minor irregular Qtz veins up to 5 cm thick. Bottom 1/2 foot + minor thin intervals throughout interval are porous likely due to calcite/carbonate. TOI - 148.3 moderately broken. Recovery O.K. 148.3 - EOI moderately to very broken. 10 cm rubble stretch at 149.4. Recovery O.K. Est Pb+Zn 15% Sph reddish-brown colour.
L	11529	11566 <sup>(47.7)</sup>		110	14E10	Sandy very oxidized Homogeneous, brass-dark yellow, non calcareous, medium grained, sandy and / or porous pyritic sulphides. Moderately thin bands of gtz / dol/ankerite? clasts. TOI to 155 beach sand with slightly more coherent chunks. 155' to EOI very broken. Unit breaks very easily and would likely be UGLY to mill! Pb + Zn 2% Recovery O.K.
L	11566	11670 <sup>(50.9)</sup>		111	14G41B	(4E46 & minor) slightly oxidized Dominant unit poorly laminated moderately soft to moderately hard pyritic sulphides. May as fine blebs & streaks // to S <sub>2</sub> . P <sub>3</sub> as 1 cm streaks in bands, locally discontinuous // to S <sub>2</sub> . Abundant honey coloured Sph. Locally baritic sulph. grade into more P <sub>3</sub> intervals - 10-30 cm thick. These intervals

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Lithologic Log

Code	From		To		Recov.		No.		Unit		Description	
	10	14	16	20	22	24	26	28	30	34		35
											contain angular gtz & dol clasts from 1cm to 1mm across. Upper 1 1/2 feet gradational contact with ↑ in barite and this interval is porous. 70E-162 moderately to very broken. 162-164 moderately broken 164-166 very broken 166 EOI moderately broken No gosses. Recovery is 0.15, Est Pb+Zn 17% P <sub>2</sub> content ranges from 10 to 35%, overall 20%?	
L	116	70	<sup>54.1</sup> 117	5			112		4E	14B	18	Hard, dark brass yellow, non calcareous, poorly laminated py sulphides. Contains thin streaks to bands up to 1cm thick which are purplish brown due to high Mag, Sph. Pyrite in these purplish brown bands are fine grained. Minor gtz clasts associated with these bands. Est Pb+Zn 6% Core intact Recovery Excellent
L	117	75	<sup>55.3</sup> 118	3			113		4E	117B	9	Similar to last unit except for 10-15cm bands/clasts of medium grey slightly pyritic gltose 4C. Fracture is gltose intervals filled with py, po, cpy. Overall grade: 4% Pb+Zn. Pyritic interval contains dark brown Sph. Qtzose bands are 15-20% of entire interval. Core intact, recovery excellent.

Code	From	To	Recov.	No.	Unit	Description
L	118113	118134		114	13B12	(4E0\$) 60:40 Soft $PS_2$ foliated pale olive green noncalcareous chl/musc phyllite. $S_2$ folia are light silvery-green. 15 cm interval near center consists of massive $P_3$ with thin bands of pegmatitic gte & coarse grained dol. Unit is very broken $\rightarrow$ rubble. Probably related to rock type. No major fault is expected. Recovery is reasonable.
L	118134	11950		115	14E10	Porous slightly oxidized Fine grained, hard, generally homogeneous pyrite 10-15 cm intervals contain thin bands/lamination of sub-sequent $P_3$ in brown sph matrix. Unit is characterized by steep fractures sub // to core axis which are filled with dol. Fractures 1-2cm wide. Locally dol weathered out forming porous weathered fracture system. Overall grade Pb+Zn: 37% 70% - 187.5, moderately broken 187.5 - EOI, very broken to rubble Recovery 70% - 189.5 is good / Recovery 189.5 - EOI, 2 1/2' core Upper contact sharp against 3B2. Lower contact hidden in rubble
L	11950	12017		116	14G4B	±# Medium grey, generally homogeneous, slightly pyritic, baritic sulphides. Vague banding related to $P_3$ content. Overall $P_3$ approx 10%. One 5cm interval extremely calcareous with calcite disseminated matrix. Ubiquitous small magnetite blebs are prevalent.

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Code	From	To	Recov.	No.	Unit	Description
1	10	14 16	20 22 24	26 28	30 34 35	Estimated Pb+Zn 16% Contains honey coloured sph. TOI - 201 Very broken → rubble with 2 1/2' core. Major core loss near upper part of unit 201 - 201.7 Core intact.
L	12 10 11 7	<u>63.5</u> 12 10 18 3		11 17	4 1E 14 11 18	Very Porous mod. oxidized Medium grained pyritic sulphides with clasts & bands of dol + qtz up to 1-2cm across. Uppermost part of interval is extremely porous & vuggy becoming progressively less porous moving down the interval. Lower contact is gradational. Assume reasonable grade because of brownish tinge among pores. Est Pb+Zn 6%? Entire interval has 2.8' core. TOI - 206 0.7' core. Most of core loss in upper porous interval. Core is <sup>very</sup> broken to rubble.
L	12 10 18 3	<u>65.2</u> 12 11 14 0		11 18	14 1E 11 10 18	minor Fine grained, hard, brassy yellow pyrite with ubiquitous light grey qtz clasts. Contains minor blebs & streaks Mag. Contains minor tan weathered dol clasts up to 1cm across. Core is very broken partly related to steep fractures subll to core axis & slightly porous qtz veins. Upper contact gradational. Lower contact sharp. Recovery is Reasonable Est Pb+Zn 20%.

Code	From			To			Recov.			No.			Unit			Description
	10	14	16	20	22	24	26	28	30	34	35					
L	121	140	<sup>66.9</sup> 178						119	4G	4B	18	#	→ (4E4 Porous) 50:50	slightly oxidized	
															Poorly laminated medium grey, moderately pyritic, baritic sulphides.	
															Minor dolomite clasts, one small area of disseminated calcite in matrix. Disseminated Mag. blebs - minor - abundant honey coloured sph.	
															Thin bands are steely-grey because of abundant Gal	
															Pb + Zn 18% P <sub>2</sub> content 20% (in baritic bands)	
															Lower contact gradational into a porous massive pyrite.	
															4E4 Bands - pyrite friable, some narrow intervals containing gtz clasts. From TOI → 215.5 core intact / 215.5 EOI very broken + rubble and directly related to rock type. Lower contact of py interval is gradational.	
															This is a repetition of the sequence noted between 195' + 208.3'.	
L	121	178	<sup>68.5</sup> 1215	0					1210	4E	4B	18	18	(10Q9) 95:05		
															Fine grained brassy-yellow massive pyritic sulphides. Contains large - up to 5cm - tan weathered dol. clasts, numerous blbs + bands of magnetite - locally 4-5cm thick, abundant thin stringers of sph, Gal, + Mag. Large bull gtz veins up to 15cm thick with coarse grained mag, red brown sph + steely grey gal.	
															Upper contact is gradational. Lower contact marked by last large clasts + start of gtzose ore.	
															Est Pb + Zn 14% P <sub>2</sub> content ≈ 70-95% (variable)	
															Core is intact, recovery excellent. Mag is SPECTACULAR!	

Code	From	To	Recov.	No.	Unit	Description
	10 14 16	20 22 24	26 28 30	34 35		
L	121215 0	<sup>73.3</sup> 121410 5		1211	141C319	± $\frac{1}{2}$
						Hard, Dark grey to dull brassy yellow, very pyritic gteite. Fine grained irregular Py disseminated throughout a gteose matrix. This texture is over-printed by 5 to 30 cm bands which are extremely pyritic. Also contains thin bands/clasts consisting of gteite, minor py & dol. Minor cps in X-cutting fractures, especially in gteose areas. Est Pb+Zn $\approx$ 10% (if lucky) Py content variable 20-50%. Core is intact, Recovery excellent.
L	121410 5	<sup>71.7</sup> 121514 8		1212	141A13	(4C3) 70:30
						Hard! Noncalcareous carbonaceous, ribbon banded pyritic gteite. 1cm or less fine grained carbonaceous bands separated by light white-grey quartz/pyrite bands of similar thickness. This overall texture is overprinted by bands of fine grained Py with interstitial grey gte. Marginal contacts are diffuse, Pyritic bands 10-20 cm thick. Commonly adjacent to py bands, the gteose rock is medium grey & not carbonaceous = 4C. Minor white bull-gtz filling 1cm fractures // to core axis. Est Pb+Zn $<$ 10% Py content 40%. Core is intact except for broken interval from 251 $\rightarrow$ 253. Recovery good. Evidence of at least two fold hinges within this interval.
L	121514 8	<sup>79.2</sup> 121610 0		1213	141C10	
						Very hard, grey, moderately pyritic gteite. Fine grained Py

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Code	From		To		Recov.		No.		Unit		Description
	10	14	16	20	22	24	26	28	30	34	
											in diffuse bands & infills small fractures, 10 cm pegmatitic gtz pad 257.5. Upper contact by last carbonaceous gtzite appearance. Lower contact is sharp. P <sub>g</sub> content 15-20% Pb+Zn < 1% (core is moderately broken → intact. Recovery is good.
L	1216	106	1216	128			1214		1318	1413	± (100±) 40:60 Fine grained soft, calcareous to dolomitic light olive green, P <sub>S2</sub> foliated chlorite-musc phyllite. Contains thin blebs of bright green very soft fuchsite elongate // to S <sub>2</sub> . Abundant 10cm-15cm pegmatitic gtz veins with associated calcite & dol. Core is moderately broken from 101-262 262-EOL very broken → rubble.
L	1216	128	1218	134			1215		1411	181±3	±3 (408±3) (3B3) 60:40:Minor Pyritic gtzite containing blebs & thin bands of magnetite. Variations include p <sub>g</sub> content & Sph-Gal content. Pyritic areas are 5-30 cm thick consisting of fine grained P <sub>g</sub> in a gtzose matrix. Contacts are diffuse. Base metals occur as thin irregular bands & laminae when present. From 273.5 → 274.4 is a soft green & white striped very calcareous chloritic phyllite. Likely a metabasite. Minor P <sub>g</sub> & C <sub>g</sub> filling fractures in gtzites. Core is intact to moderately broken. Recovery excellent. Difficult to subdivide this unit because of rapid variations in P <sub>g</sub> content & grade occurring independently. Minor dolomite clasts & short intervals of dol in matrix.

Code	From				To				Recov.	No.	Unit	Description
	10	14	16	20	22	24	26	28				
L	1218	134	1218	180						1216	1410	[3647] Moderately soft light grey-white non calcareous phyllite. Minor thin bands + disseminated porphs of py, locally irregular Po porphs. CS <sub>2</sub> foliated microlithons partly defined by thin chloritic? laminae. S <sub>2</sub> folia are light silvery-cream. Upper contact gradational to pyritic gtzite. Lower contact hidden in rubble zone. Core intact except for 4 cm rubble zone at EOT.
L	1218	180	1219	184						1217	1418 ±3	Dull grey, very hard quartzite. 2 to 15 cm bands are very pyritic consisting of fine grained py in gtzose matrix. Contains irregular bands/clasts of white gtz. with minor interstitial dol. These commonly contain red-brown Sph around margins. Minor disseminated Mag. blobs are ubiquitous. Pb+Zn 0-1% P <sub>2</sub> content 25% Lower contact is gradational, upper contact hidden in rubble. Core is intact, recovery excellent - no faults.
L	1219	184	1310	184						1218	1410 ±2 ±7	Soft, non calcareous creamy white phyllite. S <sub>2</sub> folia are light silvery-cream, sometimes with a light greenish tint. (CS <sub>2</sub> foliated, locally microlithons defined by thin P <sub>2</sub> or Po stringers. Po+P <sub>2</sub> also occur in X-cutting fractures. Near bottom of interval X-cutting fractures also contain dark green chlorite. Core is intact. Recovery is excellent.

DDH 8.7V - 0.6  
2 8CURRAGH RESOURCES INC.  
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Code	From	To	Recov.	No.	Unit	Description
L	1310184	131119		1219	14161017	- Creamy-white soft non-calcareous phyllite with abundant stringers/bands of disseminated $P_0$ . $P_0$ bands are generally 5mm to 2cm thick, // to $S_2$ & locally define isoclinal folds. $P_0$ content $\approx 15\%$ (core intact, Recovery Good)
L	1311119	1311127		1310	131813	B10 Dark brownish-green & white calcareous soft chloritic phyllite. Brown colour from abundant disseminated biotite. Calcite occurs in 2mm laminae associated with gte. Locally a 'spot' of bright green fuchsite? (core is intact, Recovery 100%)
L	1311127	1311185		1311	316101417	Moderately soft, non calcareous light grey - creamy white phyllite. $S_2$ folia are silvery to steely grey. Contains minor $P_0$ as thin stringers. $CS_2$ foliated. Microlithons defined by chloritic stringers/laminae. May be a slightly altered 3G. (core is intact - recovery good)
L	1311185	1313110		1312	13161417	1 Stringer Moderately hard, creamy white non calcareous phyllite. $S_2$ folia are a light silvery-cream. Contains numerous stringers & bands consisting of chlorite, $ps$ , $po$ . These are // & X cutting $S_2$ . Recovery is excellent. Core Intact. Stringers range up to 3-4 cm in thickness.

EOM - YEA

ASSAY LOG (SAMPLER'S COPY)

Date OCT 15/87

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
	1121	0	1123	0	1110154	1			110	NEG #1?		[4E4 (4G4)]	very oxidized
	1123	0	1126	5	1110155	1			150	14E14		±6	
	11310	0	1134	2	1110156	1			146	14L12		±1 ±4	
	11314	2	1138	0	1110157	1			142	14E14		±6	8 minor & very minor sl. oxidized
	11318	0	1141	2	1110158	1			139	14E14		±6	8 minor & very minor sl. oxidized
	1141	2	1143	3	1110159	1			135	4H1412#		(4E46)	70:30
	11413	3	11418	2	1110160	1			148	4G1418#			slightly oxidized
	11418	2	11512	9	1110161	1			140	4G1418#			slightly oxidized
	11512	9	11516	6	1110162	1			136	14E10			very oxidized
	11516	6	11612	4	1110163	1			154	4G1418		(4E46 & minor)	slightly oxidized
	11612	4	11617	0	1110164	1			150	4G1418		(4E46 & minor)	slightly oxidized
	11617	0	11710	0	1110165	1			143	14E1418			
	11710	0	11713	8	1110166	1			139	14E1418			
	11713	8	11717	5	1110167	1			142	14E1418			
	11717	5	11811	3	1110168	1			141	4E11718		9	
	11811	3	11813	4	1110169	1			124	13B12		(4E0)	60:40
	11813	4	11817	5	1110170	1			144	14E10		±4	slightly oxidized
	11817	5	11915	0	1110171	1			151	14E10		±4	slightly oxidized
	11915	0	12011	7	1110172	1			136	4G1418		±#	
	12011	7	12018	3	1110173	1			130	4E1411		Very Porous	mod. oxidized
	12018	3	12114	0	1110174	1			160	4E11018		9 minor	
	12114	0	12117	8	1110175	1			143	4G1418		# (4E4 Porous)	50:50 sl. oxidized
	12117	8	12211	2	1110176	1			130	4E1418		(10Q9)	95:05
	12211	2	12215	0	1110177	1			140	4E1418		(10Q9)	95:05
	12215	0	12219	7	1110178	1			155	14C139		±\$	
	12219	7	12314	6	1110179	1			157	14C139		±\$	
	12314	6	12410	5	1110180	1			156	14C139		±\$	
	12410	5	12415	0	111081	1			148	14A13		(4C3)	70:30
	12415	0	12511	0	111082	1			153	14A13		(4C3)	70:30
	12511	0	12514	8	111083	1			150	14A13		(4C3)	70:30
	12514	8	12610	0	111084	1			156	14C10			
	12610	0	12612	8	111085	1			135	3B1413		(10Q)	40:60
	12612	8	12615	9	111086	1			145	12C18		±3 (2DB ±3) (3D3)	60:40:Minor
	12615	9	12710	2	111087	1			150	12C18		"	
	12710	2	1274	8	111088	1			151	12C18		"	
	12714	8	12719	0	111089	1			148	12C18		"	

Corrected →

DDH 87.V-0.6  
<sub>2</sub> <sub>8</sub>

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ASSAY LOG (SAMPLER'S COPY)

Date OCT 15/87 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	
	12	17	19	0	12	18	13	4	1110910	1	14	7	12	1C18 <sup>1</sup>	±3 (2DB ±3) (3D3) 60:40:Minor
	12	18	13	4	12	18	10	0	1110911	1	14	5	1	4E0	[3G47]
	12	18	18	0	12	19	13	0	1110912	1	15	5	1	4C18	±3
	12	19	13	0	12	19	18	4	1110913	1	16	0	1	4C18	±3
	11	26	5	11	31	0	0	1110914	1	14	0	4	1	4E4	±6

ASSAY LOG (SAMPLER'S COPY)

CODE	FROM		TO		SAMPLE		INTR.		REC (m)		UNIT		DESCRIPTION
	1	10	14	16	20	22	26	28	30	32	34	36	
		11211	0		11213	0		11054	20	110		1171?	[4E4 (4G4)]
		11213	0		11215	0		11055	25	150		14E14	±6
		11310	0		11314	2		11056	42	146		14E12	±1 ±4
		11314	2		11318	0		11057	38	142		14E14	±6 8 minor & very minor
		11318	0		11411	2		11058	42	139		14E14	±6 8 minor & very minor
		11411	2		11413	3		11059	21	135		414121#	(4E46±) 20:30
		11413	3		11418	2		11060	49	148		4161418#	
		11418	2		11512	9		11061	47	140		4161418#	
		11512	9		11516	6		11062	37	136		14E10	
		11516	6		11612	4		11063	58	154		4161418	(4E46 & minor)
		11612	4		11617	0		11064	46	150		4161418	(4E46 & minor)
		11617	0		11710	0		11065	30	143		41E1418	
		11710	0		11713	8		11066	38	139		41E1418	
		11713	8		11717	5		11067	37	142		41E1418	
		11717	5		11811	3		11068	38	141		41E11718	9
		11811	3		11813	4		11069	21	124		11312	(4E0±) 60:40
		11813	4		11817	5		11070	41	144		14E10	±4
		11817	5		11915	0		11071	75	151		14E10	±4
		11915	0		12011	7		11072	67	136		4161418	±#
		12011	7		12018	3		11073	66	130		41E1411#	Very Abras
		12018	3		12114	0		11074	57	160		41E11018	± minor
		12114	0		12117	8		11075	38	143		4161418#	# (4E4 Porous) 50:50
		12117	8		12211	2		11076	34	130		41B1418#	(100±) 95:05
		12211	2		12215	0		11077	38	140		41E1418#	(100±) 95:05
		12215	0		12219	7		11078	47	155		41C1319	±#
		12219	7		12314	6		11079	49	157		41C1319	±#
		12314	6		12410	5		11080	59	156		41C1319	±#
		12410	5		12415	0		11081	45	148		141A13	(4C3) 70:30
		12415	0		12511	0		11082	60	153		141A13	(4C3) 70:30
		12511	0		12514	8		11083	38	150		141A13	(4C3) 70:30
		12514	8		12610	0		11084	52	156		141C10	
		12610	0		12612	8		11085	28	135		31B14131#	(100±) 40:60
		12612	8		12615	9		11086	31	145		121C181#	±3 (2DB±3) (3D3) 60:40:Minor
		12615	9		12710	2		11087	43	150		121C181#	"
		12710	2		12714	8		11088	46	151		121C181#	"
		12714	8		12719	0		11089	42	148		121C181#	"

ASSAY LOG (SAMPLER'S COPY)

CODE	FROM				TO				SAMPLE				INTR.				REC (m)				UNIT				DESCRIPTION																																					
	1	10	14	16	20	22	26	28	30	32	34	36	40	42	1	10	14	16	20	22	26	28	30	32		34	36	40	42																																	
		12	17	19	0		12	18	13	4	1110910		14	4	14	7	121C181																																													±3 (2D8±3) (3D3) 60:40:Minor
		12	18	13	4		12	18	18	0	1110911		14	6	14	5	14E10																																										[3647]			
		12	18	18	0		12	19	13	0	1110912		15	0	15	5	141C18																																										±3			
		12	19	13	0		12	19	18	4	1110913		15	4	16	7	141C18																																										±3			
		11	12	16	5		11	13	10	0	1110914		13	5	14	0	14E14																																										±6			

Code	From			To			Feature	SYM	S <sub>0</sub>		S <sub>1</sub>		S <sub>2</sub>		Description	
	10	14	16	20	22	24			26	28	32	34	38	40		44
S				37.8 112	40		PIS R						45	21210	Sulphide Banding	
S				39.3 112	90		PIS R						21	21210	Sulphide Banding	
S				42.1 113	80		PF 12						510	21210	"	
S				47.9 115	70		PIS R						60	21210	"	
S				53.3 117	50		PIS R						65	21210	"	
S				62.8 120	16		PIS R						513	21210	"	
S				68.9 122	16		PIS R						710	21210	Diffuse P <sub>2</sub> bands in Otrave Ore.	
S				74.7 124	15		PIS R						715	21210	Carbonaceous banding in 4A	
S				80.2 126	13		PIS R						72	21210	Diffuse P <sub>2</sub> bands in Otrave Ore	
S				86.6 128	4		PIS R						75	21210	Micaceous foliation	
S				91.7 130	11		PIS R						714	21210	Micaceous foliation	
S				95.4 131	13		CIS 12	Z			25	11810	610	21210	Composition banding + micaceous foliation	
S				100.5 133	10		PIS 12						74	21210	Micaceous foliation	
\$				74.1 124	13			Z								Fold couplet in 1 foot of core indicates Z symmetry.

Fault Log

Code	FROM		TO (At)		Feature	REG	UPPER Dip Direct		INTERNAL Dip Direct.		LOWER Dip Direct		Description	
	10	14	16	20			22	24	26	28	32	34		38
F	101	101	1820	1820	NIP	0								Tricomed - no recovery
F	1820	1820	1830	1830	IP	8								80% recovery in till
F	1830	1830	1850	1850	IP	3								33% recovery in till
F	1850	1850	1910	1910	IP	4								40% recovery in till
F	1910	1910	1916	1916	IP	6								61% recovery in till
F	1919	1919	11013	11013	IP	5								59% recovery in till
F	11017	11017	11110	11110	IP	4								45% recovery in till
F	11110	11110	11116	11116	IP	5								56% recovery in till
F	11116	11116	11210	11210	IP	8								80% recovery in till
F	11210	11210	11213	11213	3BIP	3								reground core, pebbles w/ 35% recovery
F	11213	11213	11215	11215	12B									mod. broken
F	11215	11215	11270	11270	3BIP	9								very broken related to gtz ucim
F	11310	11310	11311	11311	13B									very broken
F	11311	11311	11335	11335	12B									mod. broken
F	11313	11313	11344	11344	3BIR									very broken & rubbly
F	11315	11315	11360	11360	13B									very broken - recovery OK
F	11317	11317	11410	11410	13B									very broken - reasonable recovery
F	11411	11411	11413	11413	ID									massive po w/ abundant clasts of gtz
F	11413	11413	11418	11418	12B									mod. broken - recov OK
F	11418	11418	11512	11512	13B									mod to very broken - recovery OK
F	11419	11419	11419	11419	IR									10 cm rubbly interval
F	11512	11512	11515	11515	3BIR									sand - recovery OK
F	11515	11515	11516	11516	13B									very broken - recovery OK
F	11516	11516	11612	11612	13B									mod. to very broken - recovery OK
F	11612	11612	11614	11614	12B									mod. broken - recovery OK
F	11614	11614	11616	11616	13B									very broken - recovery OK
F	11616	11616	11617	11617	12B									mod. broken - recovery OK
F	11811	11811	11813	11813	3BIR									very broken to rubbly - recov reasonable
F	11813	11813	11817	11817	12B									mod. broken
F	11817	11817	11819	11819	3BIR									very broken to rubbly - recovery OK
F	11819	11819	11915	11915	3BIR	4								very broken to rubbly - 45% recovery
F	11915	11915	12011	12011	3BIR	4								very broken to rubbly - 41% recovery
F	12011	12011	12016	12016	3BIR	1								very broken to rubbly - 16% recovery
F	12016	12016	12018	12018	3BIR	9								very broken to rubbly - 91% recovery



PROJECT \_\_\_\_\_ DRILLHOLE NO. B7V-06 COORDINATES: N \_\_\_\_\_ DATE \_\_\_\_\_ 19\_\_  
 LOCATION \_\_\_\_\_ HOLE SIZE NQ E \_\_\_\_\_ PAGE 19 of \_\_\_\_  
 LOGGER KCP INCLINATION -90° 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		COMMENTS	
		LENGTH	%	LENGTH	%		CATEGORY	NO.			DEPTH	ANGLE	NO.	FREQ.	NO.	FREQ.		
82		0		0														FEIGNED - NO RECOVERY
83	1	1.1	100	0														
85	2	1.2		0														
90	5	1.8		0														
96	6	3.7		1.5														
99	3	2.9		0.8														
102	3	2.5		1.3														
107	5	4.4		0														
111	4	1.7		0														
116	5	2.9		1.7														
121	5	3.9		1.3														
123	2	0.8		0														
125	2	2.4	100	0.3														
130	5	5.6		3.3														
131	1	0.7		0														
136	5	5.5		2.2														
138	2	1.7		1.2														
140	2	2.4	100	0														
145	5	5.2	100	3.1														
150	5	6.0	100	1.5														
155	5	3.5		0.4														
161	6	5.2		0.5														
165	4	4.3	100	0.8														
170	5	5.5	100	4.0														
175	5	5.0	100	4.4														
180	5	5.1	100	5.0														
184	4	4.1	100	0.9														

Fig. 1. Typical rock mechanics core log.

PROJECT VANGORDA  
 LOCATION \_\_\_\_\_  
 LOGGER LCP

DRILLHOLE NO. 87V-06  
 HOLE SIZE NQ  
 INCLINATION -90°

COORDINATES: N \_\_\_\_\_ E \_\_\_\_\_  
 ELEVATION \_\_\_\_\_

DATE OCT 15 1987  
 PAGE 18 of \_\_\_\_\_



**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.	
189.5	5.5	5.4		1.2													
195	5.5	2.4		0.4													
201	6	2.5		0													
206	5	1.5		0.7													
211	5	4.6		1.1													
214	3	3	100	0													
219	5	4.5		1.7													
224	5	5.2	100	4.3													
229	5	5.4	100	3.8													
234	5	5.3	100	5.3													
240	6	5.6		5.2													
245	5	5.0	100	4.7													
251	6	5.1		3.8													
253	2	2.5	100	0.8													
258	5	5.2	100	4.0													
263	5	5.3	100	1.3													
268	5	5.9	100	2.6													
273	5	5.1	100	4.6													
278	5	5.4	100	2.8													
283	5	5.1	100	3.8													
288	5	4.6		2.1													
293	5	5.2	100	2.6													
298	5	5.0	100	4.7													
301	3	2.4		2.0													
306	5	5.1	100	3.1													
311	5	5.0	100	3.9													
316	5	5.1	100	2.4													
321	5	5.0	100	2.4													

Fig. 1. Typical rock mechanics core log.

PROJECT VANGORDA  
 LOCATION \_\_\_\_\_  
 LOGGER LCP

DRILLHOLE NO. 87V-06 COORDINATES: N \_\_\_\_\_  
 HOLE SIZE NQ E \_\_\_\_\_  
 INCLINATION -90 ELEVATION \_\_\_\_\_

DATE Oct 15 1987  
 PAGE 2 of \_\_\_\_\_



**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		COMMENTS
		LENGTH	%	LENGTH	%		CATEGORY	NO.			DEPTH	ANGLE	NO.	FREQ.	NO.	FREQ.	
326	5	4.9		3.3													
331	5	5.0	100	4.9													
		ECH															

Fig. 1. Typical rock mechanics core log.

**7**

DIAMOND DRILL CORE LOG

Date: \_\_\_\_\_

Hole Number: 87V-07

Reference Fabric Orientation Diagram:

Project: 1987 Vangorda Drilling

Location: Vangorda Deposit

Claim: \_\_\_\_\_

Terr. Plane Co-ords.: 6903334.80 N

594047.17 E

Grid Co-ords: 05E / +0.5

Elevation: 1140.05

All symmetry determinations looking

Total Depth: 342 ft (104.2 m)

NW with 52 dipping

Inclination: -90° (vertical)

SW with dip azimuth 220°.

Purpose: ore reserve definition + metallurgical samples

Reason hole Terminated: Drilled through ore into phyllite

Logged by: LCP / CR

Date(s) Logged: Oct 20, 1987

Drilling Contractor: ARCTIC DIAMOND DRILLING

Hole Cemented: No Steel down Hole: No

Size	CORE From	To	Collar Cased and Capped:
<u>NW</u>	<u>0</u>	<u>50 ft</u>	<u>No</u>
<u>NQ</u>	<u>50</u>	<u>342 ft</u>	

Assay Lab: MINE

Certificate No's: \_\_\_\_\_

Started: Oct 15/87 Completed: Oct 16/87

CURRAGH RESOURCES INC.

DDH BZV-07  
2                      8

Diamond Drill Core Log

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	BZV-07	11140.0	10	903334.8	594047.2									FEET	5.2

Code	Drillhole	Depth				Zenith Angle	True Azimuth	Comments				
I		2	8	10	14	22	26	28	32	34	56	
R	BZV-07	10	0			181.0	0	0			AT COLLAR	
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		

Code	From				To				Recov.				No.	Unit	Description
	10	14	16	20	22	24	26	28	30	34	35				
L	10	0	15.2	0									11	#	Triconed - No Recovery
L	15	0	15.3	0									12	#	Numerous re-ground pebbles including granite + phyllite.
L	15	0	21.8	2	7	1	5						3	4E/18	\$ minor (464 ± 8 ± \$ minor) 90:10 Pale yellow, hard, generally non calcareous, fine grained, poorly laminated pyritic sulphides. Contains ubiquitous Mag. as tiny blebs disseminated in matrix + locally forming thin streaky laminae. Large irregular Qtz-dol ± Mag ± Sph clasts to bands which are coarser grained generally up to 2cm across. At 64', a 10 cm clast consisting of Qtz, dol + bio, contains bands of poorly laminated 464 up to 20 cm thick, contacts are generally diffuse and ll to S <sub>2</sub> . Baritic sulph. are slightly calcareous in 10% HCL possibly related to disseminated dol. 46 contains disseminated Mag + honey coloured Sph. Est. Pb + Zn (overall) 9% Core is intact except for moderately broken zone 55-56' Recovery is good.
L	17	1	24.2	5	17	9	5						14	141614	± \$ minor slightly oxidized Thinly banded grey, generally non calcareous baritic sulphides. - moderately hard - contains small (≤ 1cm) angular white dol. clasts. Bands are marked mainly by variations in P <sub>s</sub> content. More pyritic intervals are locally slightly porous. Also contains minor Qtz. clasts in minor amounts. Contains honey coloured Sph. Est P <sub>s</sub> content 15%, Est Pb + Zn 15% Core is intact TOI = 73.4 good rec. / 73.4 - 74.3 very broken, rec. O.K

Code	From				To				Recov.		No.		Unit		Description	
	10	14	16	20	22	24	26	28	30	34	35					
															74.3 - FOZ moderately broken → intact. Rec. good.	
L	17	19	5	28.0 19	20						15	4	1E4	16	18 #	<p>yellow-greenish yellow, moderately hard, slightly calcareous, baritic-pyritic sulphides. Generally poorly laminated with streaks + laminae of mag, Sph, + Ba. Minor clasts of gtz ± dol up to 2 cm thick although generally less than 0.5 cm. One large clast? at 80-81' is white + grey/brown striped, silicified bio. gtz, non calcareous phyllite. Overall unit is thickly banded + variable in base metal + barite content. Bands are 10 → 15 cm thick. Calcite is disseminated in matrix. Upper contact is gradational marked by appearance of calcite + ↑ in P<sub>3</sub>. Lower contact is sharp, marked by clasts of gtz ore surrounded by a po rich base metal mtx. Unit is locally slightly porous in thin laminae + along fractures.</p> <p>Est. Pb + Zn : 12% Est Py 60-80%</p> <p>Core is intact except for moderately broken interval from 85 → 85.8.</p> <p>* Note: interval contained two 87' footage tags. Upper one is assumed to be 82'.</p>
L	19	20		31.0 11	10	12	5				16		4A4		± 7 minor. (4H4) minor	<p>Very hard, non calcareous, ribbon banded carbonaceous gtzite. Texturally, the unit consists of fine grained dark grey gtzite bands interlaminated with light grey → reddish grey gtz + Sph ± P<sub>3</sub> bands/laminae. More pyritic intervals contain less Sph. Minor splatchy Po associated with gtz veinlets. Uppermost 1' contains gtz ore clasts in a fine grained Po calcareous mtx.</p>

Code	From	To	Recov.	No.	Unit	Description
I	10 14 16	20 22 24 26 28	30 34 35			Est Pb+Zn 9-12% Sph generally much > Py Est Py < 5%, although locally may be 25%. Locally a well developed microlithon texture. S <sub>2</sub> folia are dark carbonaceous black. Core is moderately broken, recovery is O.K.
L	11012 5	<u>32.7</u> 11017 2		17	1316418	(3(7±3)) 80:20 The dominant unit is a pale green → light grey, noncalcareous, moderately soft PS <sub>2</sub> foliated phyllite. S <sub>2</sub> folia are light silvery grey → pale silvery green. Contains minor pegmatitic white tall qtz veins. Interbedded with a soft PS <sub>2</sub> foliated, generally calcareous (although locally non calcareous) grey to pale green phyllite with thin muscovite chlorite laminae. S <sub>2</sub> folia are silvery pale green. Metabasite is differentiated on the basis of texture, calcareous nature & lack of grey on S <sub>2</sub> folia. Core is intact, except for a few minor rubble zones. Recovery is O.K.
L	11017 2	<u>35.8</u> 11017 5		18	141A4 ± 7	Very hard, carbonaceous gtzite. Ribbon banded texture locally are forming well developed microlithons, S <sub>2</sub> folia are dark 'sooty' black. Locally contains Po in gtz-sulphide bands rather than Py Est Pb+Zn 10% Sph much > Py. Core is intact recovery is good.

Code	From	To	Recov.	No.	Unit	Description
L	11175	11192		19	13B13	36.3 Bio Soft, dark green, non calcareous, chloritic phyllite with thin white calcite laminae. Overall green + white striped appearance. Brown bio developed in calcite laminae & as thin selvages around the calcite laminae. S <sub>2</sub> folia are a silvery green. Marginal contacts are sharp. Core is intact. Recovery is good.
L	11192	11249		110	14A10	38.1 ±4±7 Very hard, non calcareous ribbon banded carbonaceous gtz. Well developed microlithon texture. Grade appears to be concentrated in lower half of unit. Gtz sulphide banding locally contains Po instead of Py. S <sub>2</sub> folia are a 'sooty' black. Upper part of interval Pb+Zn 3%. Lower part of interval est Pb+Zn 6%. Est Py/Po content 5-10%. Core is intact, recovery is good.
L	11249	11355		111	13G1018	41.3 Moderately soft, non calcareous, thin, lam. C <sub>2</sub> foliated, light grey phyllite. Laminae defined by variations in shades of grey. S <sub>2</sub> folia are silvery-grey, contains thin irregular, locally developed, chlorite laminae. Calcite present with gtz as irregular peg. veins + veinlets X-cutting and // to S <sub>2</sub> . Locally steep fractures infilled w/ gtz, calcite, chlorite are porous, sometimes vuggy. Unit is moderately broken, except for very broken interval from 133 → 133.6 and 134 to EOI. C <sub>2</sub> foliation defined by crenulated micras + grey laminae. Recovery is O.K.

Code	From	To	Recov.	No.	Unit	Description
	10 14 16 20 22 24 26 28 30 34 35					
L	11 13 15 5	44.0 11 14 14 3		1112	14A 14	→ (4C) 90:10 Core is intact, Recovery Excellent. Upper + lower contacts sharp. Unit is a very hard, ribbon banded noncalcareous, carbonaceous gtzite. Unit generally $PS_2$ foliated. Locally the gtz sulphide laminae define a microlithon texture. Est Pb+Zn 6%. Est Py 5-10%, generally Py ≈ Sph. Lowermost 0.7 feet has a bleaching of 4A to 4C with disappearance of carbon + Sph. Probably marginal contact effect with next unit. $S_2$ folia are shiny black.
L	11 14 14 3	44.3 11 14 15 3		1113	13B 14	[5D4] [4L0] Very pale silvery green, soft, non calcareous phyllite. $S_2$ folia are silvery cream. Contains pegmatitic gtz bands with associated Py, chl, sph. Core is intact, recovery is reasonable.
L	11 14 15 3	47.5 11 15 15 9		1114	14E 10	±46 (4A4 → 4D5) (5D47) 65:30:5 Dominant rock type is a brassy yellow, hard, noncalcareous pyrite. Over 10-30 cm intervals this massive py contains significant barite + honey coloured sph. Very minor dol in gtz clasts. Interval is characterized by numerous clasts from 1cm to 50cm dominantly of 4A4 very high grade carbonaceous gtzite small clasts contain abundant sph as envelopes around the gtzite. The large 50 cm clast is not as strongly carbonaceous and is classified as 4D5. Two 10 cm clasts consist of soft non calcareous pale green + white striped phyllite. Overall grade 8% Pb+Zn because of extreme high grade in clasts. Core is intact Recovery is excellent. Calcite occurs in thin fracture filling at a

Code	From		To		Recov.		No.		Unit		Description
	10	14	16	20	22	24	26	28	30	34	
											shallow angle to the core axis. $S_2$ foliation in clasts is not concordant with sulphide banding. Flow breccia texture strongly indicated.
L	11515	9	11612	0			115		14161418		Diffusely laminated, purplish-grey, moderately hard, baritic sulphides. Laminae marked by variations in $P_2$ , $Ba$ , + reddish brown to honey coloured Sph. Magnetite occurs as irregular small blebs forming thin streaks // to $S_2$ . Minor clasts of 4A + non calcareous, soft, chloritic phyllite associated with pegmatitic Qtz in upper 3' of unit. Est Pb+Zn 15% Est $P_2$ 40%. Calcite occurs as infilling of small fractures shallow to core axis. Core is intact, Recovery is good.
L	11612	0	11614	7			116		131813 Bio		Dark green, soft, calcareous chloritic phyllite. Overall appearance green + white striped with calcite appearing in laminations + bands + associated with Qtz. Bio occurs as selvages in these laminations + bands. $S_2$ folia is dark green. Core is intact, Recovery is good.
L	11614	7	11703	3			117		14161418 3 minor (4D48) 90:10		Diffusely laminated, moderately hard, moderately baritic, brownish-grey baritic sulphides. Contains small disseminated Mag. blebs. Laminations defined by variations in honey coloured + reddish brown spherulite. Minor clasts of 4A and 3B. A 0.6 interval of hard, base metal rich, grey Qtzite at 168.5. Minor calcite disseminated in mtr of baritic sulphides.

CURRAGH RESOURCES INC.  
Lithologic Log

Code	From	To	Recov.	No.	Unit	Description
	10 14	16 20	22 24	26 28	30 34 35	
						calcite also occurs as infilling steep fractures. Est Pb+Zn 15% Est P <sub>2</sub> 30% Core is intact, recovery is excellent.
L	11710 3	11810 5		118	414141311	\$ minor q minor (3c41\$) (4G4) 50:30:20 Background unit is a fine grained brassy hard, non calcareous to slightly calcareous P <sub>2</sub> . Contains numerous clasts/thin bands of white dol + grey gteite. Minor Cpy infilling fractures in gteites. Uppermost 3' consists of hard, grey, with thin dark grey stripes hard dolomitic phyllite. Overall texture is 'leopard' rock. Minor Cpy + P <sub>2</sub> infilling fractures in the silicified former metabasite. P <sub>2</sub> in 4H unit forms thin bands with 'microbuckshot' <sup>texture</sup> in P <sub>2</sub> , base metal rich ground mass Est Pb+Zn 15-20% Core is intact, Recovery excellent
L	11810 5	11910 9		119	141E118	\$ minor. Dominated by a very hard, dark brassy yellow, non calcareous pyrite with interstitial gtz. Slightly higher gtz regions form bands up to 2 to 3 cm thick // to S <sub>2</sub> . Sparse dol. clasts up to 1cm across. Mag as thin lenses // to S <sub>2</sub> . Down to 182.5 contains reg gtz, sph, gal, minor po veins, dol. Est P <sub>2</sub> content for unit 85% Est Pb+Zn 2% Core is intact Recovery is excellent.
L	11910 9	121019 2		120	1411813	± \$ ± 7 ± 9 ± 4 Very hard, locally thinly banded, pyritic gteite. Contains intervals with abundant gtz and/or dol in bands + clasts. These bands generally contain

4G4 is a 2' interval 173 → 175'

Code	From		To		Recov.		No.		Unit		Description
	10	14	16	20	22	24	26	28	30	34	
											abundant redish-brown Sph. Mag. is // S <sub>2</sub> lenses streaks & bands. Po commonly associated with Cpy. infilling small X-cutting fractures. Locally Po. becomes dominate sulphide flooding sub-intervals. Lower 3' characterized by ↑ in proportion of gtz so that rock overall has a grey rather than brassy appearance. Est Pb+Zn 9% with some intervals ranging up to 13%. Est Py 40% ranging down to 20% in more gtz rich areas. Unit is intact. Recovery is excellent. Lower contact is very gradational.
L	1210	192	<sup>66.7</sup> 1211	188			1211		141	171	3 minor 3 minor 9 minor Hard, non calcareous bronze Po gteite. Fine grained Po disseminated in a grey interstitial gtz matrix. Contains bands/clast light grey gteite, light tan dol & lesser silicified musc, gtz, phyllite. Minor microbreckshot texture + Po locally. Also minor Cpy in small fracture fills in gtz rich clasts. Po content 65% Py content 25%. Est. Pb+Zn ≈ 7% Upper contact is gradational marked by ↑ in Po + ↓ in Py. Lower contact reasonably sharp, marked by an ↑ in gtz + change of Po to Py. Core is intact recovery is excellent.
L	1211	188	<sup>79.1</sup> 1214	130			1212		141	188	4 minor 7 minor 9 minor Grey to yellow grey, hard, generally non calcareous pyritic gteite. Py is fine grained + forms diffuse bands in gteite which are 1cm

Code	From	To	Recov.	No.	Unit	Description
	10 14	16 20	22 24	26 28	30 34 35	
						to 15 cm More glose intervals typically have the appearance of clasts. Mag. occurs as thin lenses/laminae // to S <sub>2</sub> + typically associated with Sph. Splashy Po + Cpy infilling & cutting fractures. Est Py content 40% Est Pb+Zn 6-7%. Dol forms sparse large clasts. Core is intact, Recovery Excellent. Lower contact ↓ grade + ↑ in thicker pyritic quartzite intervals + disappearance of Po.
L	R 1413 0	(77.3) 121513 7		1213	41218 ±3	Hard, greenish grey → yellowish grey quartzite. Contains 2-15 cm intervals of pyritic bands with interstitial Qtz, Sph, Gal. + Mag. Qtzose bands have a greenish tinge on cut surface. Very sparse dol. clasts. Minor Cpy in X-cutting fractures. Est Pb+Zn 6% Est Py 40% Core is intact, recovery is excellent.
L	121513 7	(84.6) 121717 7		1214	41218 ±3 (10Q#9) 90:10	Similar to last unit except it is characterised by splashy pegmatitic Qtz calcite containing Sph, Gal, Mag, Chlorite, Cpy, Po. These generally // S <sub>2</sub> 5-15 cm pods/veins constitute about 10% of the interval. Est py 25% Est Pb+Zn higher because of veins 12% comb. Qtzose intervals have a definite greenish cast. Recovery is 100% Core is intact.

appearance correct

Code	From	To	Recov.	No.	Unit	Description
L	121717 7	121819 8		1215	141818	±7±9±# Chlorite Garnet Very hard, grey, locally moderately calcareous gtzite. Wet cut surface has a dark green aspect. Calcite occurs as thin bands // to S <sub>2</sub> . Pyritic intervals containing Mg <sub>2</sub> & Sph form diffuse bands // to S <sub>2</sub> ranging from 1 cm to 30 cm in thickness. Pale pink to tan garnet noted in 1 gtzite band. Minor, irregular Po and Cpy in narrow V-cutting fractures. Typically these fractures have a dark green chlorite seepage. Est Pb+Zn 6-7% Est P <sub>2</sub> 20% Core is intact, Recovery is very good * Does green chlorite + pale pink garnet indicate this is a strongly altered & mineralized wall rock?
L	121819 8	121915 3		1216	141010#	[4L124#] Hard, greenish-grey, calcareous, slightly pyritic gtzite. PS <sub>2</sub> foliated. P <sub>2</sub> occurs as fine grained diffuse bands 1cm → 3cm thick. Sph sparsely distributed in gtzite rich intervals. Gtzite has dark green colour on wet cut surface. S <sub>2</sub> folia are patchy, silvery grey & dark green Est Pb+Zn 3% Est P <sub>2</sub> 10% Upper contact gradational marked by ↓ grade & ↓ P <sub>2</sub> content. Lower contact gradational marked by ↓ in hardness + ↓ in P <sub>2</sub> Core is intact, Recovery 100%
L	121915 3	131111 6		1217	141L1612	4B 1 minor ±# Grey green, moderately hard (S <sub>2</sub> foliated) siliceous phyllite. P <sub>2</sub> , Mg <sub>2</sub> , Sph occur disseminated in thin bands <1cm thick // S <sub>2</sub> & S <sub>1</sub>

Code	From	To	Recov.	No.	Unit	Description
	10 14	16 20	22 24	26 28	30 34	35
						Locally these bands help define microlithons. Commonly the sulph bearing bands are dark green because of associated chlorite. Calcite occurs dominantly w/ qtz in X-cutting veinlets. Cut surface can be barely scratched with a sharp nail. S <sub>2</sub> folia are a light silvery-grey with patchy green tinges. By now we are definitely into mineralized wall rock. Py content ~10% Core is intact. Recovery is excellent. Lower contact is gradational. Marked by ↓ in sulphides & ↓ in hardness.
L	131116	131119 97.2	0	1218	14110	6 weak 2 weak Moderately soft, creamy white with thin light green laminae, generally PS <sub>2</sub> foliated, non calcareous phyllite. S <sub>2</sub> folia are light silvery grey. Contains very minor thin P <sub>3</sub> laminae // to S <sub>2</sub> . Also occurs in thin X-cutting fractures. Core is intact. Recovery is good. Est P <sub>3</sub> content 5%
L	131119	131120 101.2	0	1219	14116	2 minor (3B3 Bio) [3G4B] 80:20 PS <sub>2</sub> foliated, soft, non calcareous, pale greenish-cream phyllite. The pervasive green colour shows best on wet surface. Minor thin disseminated P <sub>3</sub> bands // to S <sub>2</sub> . S <sub>2</sub> folia are pale green, locally with a silvery-grey aspect. 321-323.5 (consists of a white & dark green striped calcareous phyllite with minor Bio. Calcite occurs in the white stripes. Bio patchily developed. Core intact. Recovery is good

Code	From	To	Recov.	No.	Unit	Description
	10 14 16 20 22 24 26 28 30 34 35					
L	1313120	<u>102.3</u> 1313156		1310	4L6	6 weak (10Q39) 70:30 Similar phyllite as last interval with abundant pegmatitic qtz veins. Qtz veins associated with calcite & interstitial P <sub>o</sub> . Core is intact. Recovery is good
L	1313156	<u>104.2</u> 1314120		1311	4L16	2 minor q very minor (3B3 Bio) minor [3G4B] Similar to unit 29 except minor splashy Cps in X-cutting fractures. Core is intact. Recovery is good
						*Note Top of hole down to 92.1 4EG 92.1 to 145.2 4A (3C) (3G4) 145.2 to 180.5 4EG 3C → 4H at end. 180.5 to 289.8 4EC 289.8 to EOL 3G4B ± 1
						EOH

## ASSAY LOG (SAMPLER'S COPY)

Date OCT 20/87 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						
	1 15 10 2	1 15 15 1	1113101	1	158	14E18	\$ minor (464 ± 8 ± \$ minor) 90:10
	1 15 15 1	1 16 11 0	1113102	1	161	14E18	\$ minor (464 ± 8 ± \$ minor) 90:10
	1 16 11 0	1 16 16 9	1113103	1	157	14E18	\$ minor (464 ± 8 ± \$ minor) 90:10
	1 16 16 9	1 17 11 5	1113104	1	146	14E18	\$ minor (464 ± 8 ± \$ minor) 90:10
	1 17 11 5	1 17 14 5	1113105	1	137	14G14	± \$ minor slightly oxidized
	1 17 14 5	1 17 19 5	1113106	1	143	14G14	± \$ minor slightly oxidized
	1 17 19 5	1 18 4 5	1113107	1	151	4E14 16 18	#
	1 18 4 5	1 18 8 5	1113108	1	140	4E14 16 18	#
	1 18 8 5	1 19 2 0	1113109	1	147	4E14 16 18	#
	1 19 2 0	1 19 7 5	1113110	1	155	14A14	± 7 minor (444) minor
	1 19 7 5	1 10 2 5	1113111	1	158	14A14	± 7 minor (444) minor
	1 10 2 5	1 10 7 2	1113112	1	156	13G14 18	(3(7 ± 3) 80:20
	1 10 7 2	1 11 1 0	1113113	1	145	14A14	± 7
	1 11 1 0	1 11 7 5	1113114	1	149	14A14	± 7
	1 11 7 5	1 11 19 2	1113115	1	118	13B13	R10
	1 11 19 2	1 12 4 9	1113116	1	163	14A10	± 4 ± 7
	1 12 4 9	1 13 10 0	1113117	1	158	13G10 18	
	1 13 10 0	1 13 15 5	1113118	1	158	13G10 18	
	1 13 15 5	1 13 19 4	1113119	1	146	14A14	→ (410) 90:10
	1 13 19 4	1 14 4 3	1113120	1	151	14A14	→ (410) 90:10
	1 14 4 3	1 14 15 3	1113121	1	112	13B14	[5047] [420]
	1 14 15 3	1 15 10 5	1113122	1	157	14E10	± 46 (4A4 → 4D5) (5D47) 65:30:5
	1 15 10 5	1 15 15 9	1113123	1	158	14E10	± 46 (4A4 → 4D5) (5D47) 65:30:5
	1 15 15 9	1 16 2 0	1113124	1	163	14G14 18	
	1 16 2 0	1 16 14 7	1113125	1	127	13B13	R10
	1 16 14 7	1 17 10 3	1113126	1	157	14G14 18	3 minor (4D4B)
	1 17 10 3	1 17 15 3	1113127	1	149	13C14 16 4	466
	1 17 15 3	1 18 10 5	1113128	1	152	4H14 13 11	\$ minor 9 minor (3C418) (464)
	1 18 10 5	1 18 15 8	1113129	1	155	14E11 18	\$ minor
	1 18 15 8	1 19 10 9	1113130	1	150	14E11 18	\$ minor
	1 19 10 9	1 19 15 6	1113131	1	150	14E18 3	± \$ ± 7 ± 9 ± 4
	1 19 15 6	1 20 10 2	1113132	1	149	14E18 3	± \$ ± 7 ± 9 ± 4
	1 20 10 2	1 20 14 6	1113133	1	149	14E18 3	± \$ ± 7 ± 9 ± 4
	1 20 14 6	1 20 19 2	1113134	1	150	14E18 3	± \$ ± 7 ± 9 ± 4
	1 20 19 2	1 21 14 0	1113135	1	150	14E17	\$ minor 3 minor 9 minor
	1 21 14 0	1 21 18 8	1113136	1	156	14E17	\$ minor 3 minor 9 minor

CODE	FROM	TO	SAMPLE	INTR.	REC (m)	UNIT	DESCRIPTION
I	10 14 16 20 22 26 28 30 32 34 36 40 42						
	12 11 18 8	12 2 13 7	1113137		151	14 <sup>C</sup> 18	4 minor 7 minor 8 minor
	12 12 13 7	12 2 19 0	1113138		151	14 <sup>C</sup> 18	4 minor 7 minor 8 minor
	12 12 19 0	12 13 13 6	1113139		151	14 <sup>C</sup> 18	4 minor 7 minor 8 minor
	12 13 13 6	12 13 18 2	1113140		150	14 <sup>C</sup> 18	4 minor 7 minor 8 minor
	12 13 18 2	12 4 13 0	1113141		151	14 <sup>C</sup> 18	4 minor 7 minor 8 minor
	12 14 13 0	12 14 16 4	1113142		139	14 <sup>C</sup> 18	±3
	12 14 16 4	12 15 10 1	1113143		140	14 <sup>C</sup> 18	±3
	12 15 10 1	12 15 13 7	1113144		136	14 <sup>C</sup> 18	±3
	12 15 13 7	12 15 18 6	1113145		152	14 <sup>C</sup> 18	±3 (10 Q # 9) 90:10
	12 15 18 6	12 16 13 2	1113146		153	14 <sup>C</sup> 18	±3 (10 Q # 9) 90:10
	12 16 13 2	12 16 18 1	1113147		155	14 <sup>C</sup> 18	±3 (10 Q # 9) 90:10
	12 16 18 1	12 17 13 1	1113148		152	14 <sup>C</sup> 18	±3 (10 Q # 9) 90:10
	12 17 13 1	12 17 17 7	1113149		151	14 <sup>C</sup> 18	±3 (10 Q # 9) 90:10
	12 17 17 7	12 18 12 0	1113150		143	14 <sup>C</sup> 18	±7 ± 9 ± # Chlorite Garnet
	12 18 12 0	12 18 15 9	1113151		139	14 <sup>C</sup> 18	±7 ± 9 ± # Chlorite Garnet
	12 18 15 9	12 18 19 8	1113152		143	14 <sup>C</sup> 18	±7 ± 9 ± # Chlorite Garnet
	12 18 19 8	12 19 15 3	1113153		160	14 K 10 #	[4 L 24 #]
	12 19 15 3	13 10 1 0	1113154		159	4 L 16 12 14	81 ± # minor
	13 10 1 0	13 10 16 1	1113155		155	4 L 16 12 14	81 ± # minor
	13 10 16 1	13 11 1 6	1113156		156	4 L 16 12 14	81 ± # minor

Code	From		To		Feature	SYM	S <sub>0</sub>		S <sub>1</sub>		S <sub>2</sub>		Description	
	10	14	16	20			Dip	Direct.	Dip	Direct.	Dip	Direct.		
1	10	14	16	20	22	24	26	28	32	34	38	40	44	
S				15.5 151	0	PIS	2					39	220	Sulph. banding in Pyrite
S				22.6 174	0	PIS	2					60	220	P <sub>3</sub> banding in 4G
S				26.5 187	0	PIS	2					63	220	Banding in 4G
S				30.8 1101	0	CIS	2	S		210	01010	513	220	4A with microlithons
S				34.1 1112	0	CIS	2	S		215	0110	616	220	4A carbonaceous banding
S				37.2 1122	0	CIS	2	I		011	0135	810	220	Banding in 4A
S				41.9 1137	5	CIS	2	Z		614	1180	710	220	"
S				45.3 1142	0	CIS	2			815	1180	718	220	Sulph. Banding in 4A
S				50.9 1167	0	PIS	2					512	220	Sulph. Banding in 4G
S				57.9 1190	5	PIS	2					715	220	Sulph. Banding in 4E1
S				62.5 1205		PIS	2					616	220	Sulph. Banding. Minor folds give overall S symmetry.
S				68.3 1224		PIS	2					610	220	Diffuse Banding in 4D
S				73.8 1242		PIS	2					613	220	Sulph. banding in pyritic 4E
S				79.2 1260		PIS	2					618	220	Sulph banding in 4D
S				86.3 1283		PIS	2					710	220	" " " 4C
S				11.1 1299		CIS	2	I		313	2170	715	220	" " " "
S				93.6 1307		PIS	2					712	220	Foliation.
S				75.1 13112		CIS	2	I		415	21710	715	220	Outlined by micas
S				106.0 13311		PIS	2					619	220	Pervasive Foliation
S				105.9 13411		CIS	2	S		210	01010	515	220	Foliations



PROJECT \_\_\_\_\_ DRILLHOLE NO. 87V-07 COORDINATES: N \_\_\_\_\_ DATE \_\_\_\_\_ 19\_\_  
 LOCATION \_\_\_\_\_ HOLE SIZE \_\_\_\_\_ E \_\_\_\_\_ PAGE 18 of \_\_\_\_  
 LOGGER \_\_\_\_\_ 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		COMMENTS
		LENGTH	%	LENGTH	%		CATEGORY	NO.			DEPTH	ANGLE	NO.	FREQ.	NO.	FREQ.	
50		0		0													<i>Trimmed</i>
51		1		0.8													
56		5.4		4.5													
61		4.7		3.9													
66		4.8		3.4													
70.5		5.3		5.3													
75.5		5.7		3.5													
82		5.3		2.3													
87		5.4		2.2													
91		5.1		4.6													
96		5.1		2.7													
101		5.4		1.4													
106		5.3		2.6													
111		5.0		3.8													
116		3.8		3.0													
121		5.1		1.6													
122		1.0		1.0													
127		5.2		1.8													
132		5.1		0.5													
137		5.4		1.5													
142		5.0		3.1													
147		5.1		3.8													
152		5.3		3.6													
157		5.2		3.6													
162		5.1		4.7													
167		5.1		4.2													
172		5.0		3.2													

Fig. 1. Typical rock mechanics core log.

PROJECT Vancouver  
 LOCATION \_\_\_\_\_  
 LOGGER LCP

DRILLHOLE NO. 87V-07 COORDINATES: N \_\_\_\_\_  
 HOLE SIZE \_\_\_\_\_ E \_\_\_\_\_  
 INCLINATION \_\_\_\_\_ ELEVATION \_\_\_\_\_

DATE Oct 20 1987  
 PAGE 19 of \_\_\_\_\_



**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.	
177	5.0	5.0		3.4													
182		5.0		4.4													
187		5.1		4.9													
192		5.3		5.0													
197		5.0		4.8													
202		5.2		5.0													
207		5.3		4.9													
212		5.0		5.0													
217		5.3		5.3													
222		5.0		4.8													
227		4.8		4.4													
232		5.2		5.2													
237		5.1		5.0													
242		5.1		5.0													
247		5.2		4.8													
252		4.8		4.4													
254.5		2.7		2.4													
260		5.2		5.2													
262		2.2		1.9													
267		5.1		4.3													
272		5.1		3.4													
277		5.1		5.1													
282		5.0		5.0													
287		5.1		4.8													
292		5.0		4.8													
297		5.2		3.9													
302		5.0		3.8													

Fig. 1. Typical rock mechanics core log.

PROJECT Vanguard  
 LOCATION \_\_\_\_\_  
 LOGGER LCP

DRILLHOLE NO. 87V-07 COORDINATES: M \_\_\_\_\_  
 HOLE SIZE NQ E \_\_\_\_\_  
 INCLINATION \_\_\_\_\_ ELEVATION \_\_\_\_\_

DATE OCT 20 1987  
 PAGE 20 of \_\_\_\_\_



**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.		
307		5.1		3.6														
312		5.0		4.4														
317		5.1		4.2														
322		5.0		3.0														
327		5.2		2.9														
332		5.0		2.7														
336		3.8		3.6														
342		6.1		3.3														

EOH

Fig. 1. Typical rock mechanics core log.

**8**

DIAMOND DRILL CORE LOG

Date: \_\_\_\_\_

Hole Number: 87V-08

Reference Fabric Orientation Diagram:

Project: Vangada 1987 drilling

Location: Vangada Deposit

Claim: \_\_\_\_\_

Terr. Plane Co-ords.: 6903315.95 N

594021.79 E

Grid Co-ords: 05E / - 0.5

Elevation: 1142.74

All symmetry determinations looking

Total Depth: 327 feet (99.7 m)

NW with 52 dipping

Inclination: -90° (vertical)

SW with dip azimuth 220°.

Purpose: ore reserve definition + metallurgical samples

Reason hole Terminated: drilled through ore into phyllite

Logged by: CVR + KCP

Date(s) Logged: OCT 21-23 / 1987

Drilling Contractor: ARCTIC DIAMOND DRILLING

Hole Cemented: No Steel down Hole: No

Size	CORE From	To	Collar Cased and Capped:
<u>NW</u>	<u>0</u>	<u>70</u>	<u>No</u>
<u>NQ</u>	<u>70</u>	<u>327</u>	

Assay Lab: MINE

Certificate No's: \_\_\_\_\_

Started: OCT 19/87 Completed: OCT 19/87

CURRAGH RESOURCES INC.

DDH 87V-08  
2 8

Diamond Drill Core Log 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	87V-08	11142.7	903316.0		594021.8			FEET	52		

Code	Drillhole	Depth		Zenith Angle	True Azimuth	Comments			
I	2 8	10	14	22	26	28	32	34	56
R	87V-08		00	180.0	0.0	AT COLLAR			
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
		LOIST WATER AT 100 FEET	
		LOIST WATER AT 160 FEET - NEVER RETURNED	

FEET

DDH 8,7,V,-,0,8,  
2 8

## CURRAGH RESOURCES INC.

## Lithologic Log

Page 3 of

Date: Oct 2/87 Logged By: CR/LCP

Code	From	To	Recov.	No.	Unit	Description
	10 14 16 20 22 24 26 28 30 34 35					
L	1710	1710		1	#1	TRiconed - no recovery
L	1710	1710		2	#1	Assorted pebbles 1-3cm across Include phyllite, granite, gtz looks like material not washed out after triconing completed. Missed top of ore deposit - triconed into ore.
L	1710	1712		3	141A141	slightly oxidized Very hard, dark gray to black, noncalcareous, S2-foliated ribbon-banded qtzite. Locally porous in thin streaks parallel S2. Py disseminated in thin light gray gtzose bands. Py content 15% > sphalerite (Pb+Zn) estimated 8% Ore mod. broken - recovery OK. S2 folia dk sooty black. Micro-lillona texture present. No strong evidence of weathering on cut surface except for locally slightly porous nature.
L	1712	1815		4	141E141	porous mod. oxidized Dominantly a hard, brassy yellow pyritic sulphides. Local intervals - bands of softer, porous to sandy py. These bands range from 1cm thick to > 10cm thick. Banding goes approx parallel core axis. Lower 1' looks higher grade than upper part of interval. Generally fine to medium grained Only slightly orange-weathered on some of the fracture surfaces. Compositional banding not readily visible. TOI-79 ore very broken & rubble - recovery OK / 79-82 mod. broken - recov OK / 82-EOI intact except for O.B @ bottom which is very rubble - Recov OK. Estimated grade 7% (Pb+Zn)

Code	From	To	Recov.	No.	Unit	Description
I	10 14 16	20 22 24 26 28 30			D	
L	1815 4	1817 0		15	41K10	(410 [364] gauge) Most of recovered material is med. grey, slightly pyritic, CS2 foliated gte. S2 folia are silvery grey to silvery cream - dominantly muscovite. S1 at very shallow angle to core axis. Along some surfaces of gte have light silvery cream, very micaceous (i.e. muscovite-rich) mud. Really absorbs water & has no strength (probably gauge) however part of interval has some light grade pyritic sulphide blocks - maybe in place & maybe from next unit. Recovery looks reasonable in spite of very broken nature of core. Suggest possibly ore pieces in 410 gauge matrix w/ gauge washing away. Grade estimates only a few %
L	1817 0	1916 4		16	41E14	porous ± # ± 6 slightly oxidized Yellow, poorly banded, hard pyritic S <sup>+</sup> . Banding visible as 1-2 cm slightly porous bands. Calcaceous interval for 15 cm @ 89.5' - calcite disseminated in matrix. Bull gte vein @ 95' w/ thin galena-py stauers in white pegmatitic gte. 95-EOI contains disseminated barite interstitial to py. Comp banding @ shallow angle to core axis. Estimated grade 7-8% (Pb+Zn). Core mod. broken TOI-95 - recovery OK. @ 95 have 0.3' rubble zone. 95-EOI intact / recovery OK. Doesn't look weathered
L	1916 4	11018 3		17	41A14 <sup>0</sup>	(4E4 ± 6 ± # v. minor) (4C0) (5D46) 70:20:5:5 Dominantly black, CS2-foliated, ribbon-banded gte. S2 folia black. Compositional banding @ shallow angle to core axis. Reddish-brn sphal in gte-sulphide laminae generally parallel S2. Estimated grade 8% (Pb+Zn) Sphal:py = 3:2. Locally pitted on cut surface - no iron staining. Pyritic S <sup>+</sup> similar to Unit # 6 (87-96.4) described above. Occurs in 0.66'

Code	From		To		Recov.		No.		Unit		Description
	10	14	16	20	22	24	26	28	30	34	
											<p>intervals - forms phase 2 fold hinge zone. Poorly defined banding marks the S2 folds. Can actually see 4A totally enclosing 1 side of 4E in one hinge zone. Small 5D46 with rimming 4C0 for 1 1/2' interval. 105.5-107. Core of interval pale olive green to tan, moderately soft, non-calcareous micc-chlorite phyllite. Locally muddy of gauge zones parallel S2. Contains py bands ~ 1cm thick. Margins are bleached 4A which is more 4C. Mud to light gray, hard, slightly pyritic ptile w/ phyllitic laminae. S2 foliation are silvery gray. Grade 1-2% pb+zn. TOI-100 mud biten to intact / 100-102.5 very rubbly / 100.5-107.4 slightly broken to intact / 107.4-107.8 very rubbly / 107.8-EOT slightly broken. Recovery looks reasonable.</p>
L	110	113	111	118			18		14E14		<p>(10Q44)(4H4) 95:05:Minor Dominantly hard, yellow w/ brnish tinge, fine-grained, non-calcareous pyritic S<sup>2</sup>. Locally has micro-buckshot texture of py in brn sphal-rich matrix. Minor interstitial qtz in clasts &amp; tiny veinlets. Minor comp. banding related in some cases to primary banding &amp; in one case to infilling of tiny fractures by sphalerite. At 113-114, have pegmatitic qtz vein + abundant fine sphal w/ lenses py and magnetite going essentially down the core axis. Qtz looks like clasts in S<sup>2</sup> rich matrix. Interval is very high grade. Thin 4H4 py bands @ 118. Also start to see extensive qtz clasts w/ small sphal veinlets in py matrix. About 3" thick for qtz "vein" &amp; for py bands. Estimated grade 12-15% (pb+zn). Core intact to slightly broken - recovery excellent.</p>

Code	From	To	Recov.	No.	Unit	Description
I	10 14 16	20 22 24	26 28 30	34 35		
	111189	<sup>37.9</sup> 112145		19	141A141	→ (405) (5C4 [504]) (4E4) 60:05:30:05 Complicated sequence of units - largely because S1 compositional banding is going straight down core axis. Dominant unit dk gray to black, hard, noncalcareous, ribbon-banded stria. Slightly pyritic. Carbonaceous folia dk gray to shaly black. Py assoc. w/ gte in gte-sulphide bands. Py content 5-10%; (Pb+Zn) = 6-7%. Have 1 interval of massive py near TOI for 15cm. Probably fold hinge. Fine-grained gte w/ fine gte dissem. in matrix & in small veinlets. Lower part of interval contains very grungy & altered thin, tan & bright green metabasites. Bands about 1-5cm thick. Commonly the metabasite has gneiss appearance. (Metabasite 121.5 - 123.3) Near bottom of interval 4A because med dk gray sphal. more readily visible S2 folia are dull gray. Sharp (i.e. shallow core axis) compositional banding xcut by lower S2 cleavage @ 43° core axis. Core intact TOI-121 / 121-123.3 very rubble and broken w/ some greases / 123-EOI med. broken. Recovery good.
L	112145	<sup>40.5</sup> 113132		110	131G1016	±4 minor Moderately soft, light gray, noncalcareous phyllitic. S2 folia patchy bright silvery gray and darker gray. Sphal-py form fracture-filling veins subparallel both S1 and S2. Fractures essentially parallel core axis. Unit appears contorted / distorted / disrupted. Numerous gte clasts present. Minor 4C gte in interval 127.5-128 and 132.5-132.7. S <sup>2</sup> fractures high grade - overall Pb+Zn 4-5% after dilution. Py < 2-3%. TOI-125.7 core intact - recov good / 125.7-126.5 soft rubble gouge - upper contact lost in rubble. Lower contact parallel S2. / 126.5-EOI core intact. recovery good for all intervals.

Code	From	To	Recov.	No.	Unit	Description
	10 14 16 20 22 24 26 28 30 34 35					
L	11313 2	41.4 11315 B		111	141E141	±6 (1069 \$ minor) 97:03 Banded yellow pyrite w/ extremely high born sphal-gal rich intervals w/ micro brecciated baritic py texture. Banding parallel core axis A+ 134.8 steeply dipping pegmatitic qtz-biotomite - coarse sphal-gal - chlorite - andal on garnet veins Qtz vein has warty texture - looks like margins may include silicified pelite. Estimated grade 15% (Pb+Zn) Core status mod. broken - recovery good.
L	11315 B	42.8 11410 3		112	141G141B	# minor Light buff brown, hard, thickly laminated, slightly calcareous, pyritic-baritic S= Minor magnetite as disseminated small specks (<1mm across) Compositional banding essentially goes down core-axis / definitely 2 and probably 3 fold noses preserved in core Py content 25% (Pb+Zn) = 17% Core intact w/ good recovery Minor cc disseminated in matrix.
L	11410 3	44.6 11416 3		113	141H#1\$	(36046)(3846)(4E4) 75:25:TRACE: Trace Top 1.5' consists of light grey, noncalcareous, soft muscovite-chlorite phyllite. S2 folia are silvery - slightly altered. Top 4" hard - silicified Contains thin band of tan-green, noncalcareous, soft altered chloritic phyllite. Py occurs in 1cm diffused bands parallel S2. Lower contact sharp    S1; upper contact irregular & sharp. Dominant unit is bronze, fine-grained, calcareous qz. Steeply dipping band going    core axis. Bounded by 4E4 pyritic S= Two fold cleavages noted. Pn contains numerous small qtz, biotomite clast. Calcite lamination in matrix. Near bottom of unit have large clast of pegmatitic qtz, 36. S= flow banding around the clast. To I - 141.7 very broken / 141.7 - EOI. Intact w/ good recovery Grade 14% Pb+Zn Minor disseminated py grains in 4H

Code	From		To		Recov.	No.	Unit	Description		
	10	14	16	20					22	24
L	11416	3	11513	3		114	14E14B	± 6 minor (4D47)(3C14*) 100: MINOR MINOR. Brassy yellow to light brown, poorly banded to homogeneous, hard, fine-grained, massive calcareous pyritic S <sup>2</sup> . Contains minor disseminated bands in poorly defined bands. Two larger cherts - (4D47 and 3C14*) Magnetite as tiny blebs forming thin streaks defining a "vague" foliation. Sphal, gte, dolomite streaks 1cm-1cm thick forming a banding running roughly // core axis. At 148.5 cherts of dk brown po-rich high grade gte/sph extending for 0.8' w/ minor py. EOI have 0.8' cherts of striped grey and white, hard, only very slightly reactive in 20% HCl, gte/sph phyllite. P52 foliated. Texture of "leopard rock". Contains minor sphal as selvages to gte laminae. Contacts ragged to sharp. Estimated grade 9% (Pb+Zn) Py content 80% Core intact w/ good recovery.		
L	11513	3	11612	6		115	14G14B #	(4H4#) MINOR light brown, hard, diffusely banded, calcareous, banded/pyritic S <sup>2</sup> . Banding defined by sphal-rich intervals, py-rich intervals, and calcite variations. Banding very steeply dipping - generally // core axis. At least 1 fold hinge zone noted. Estimated grade 15% (Pb+Zn) Py content 40%. At 156.5' have 10cm interval bronze-yellow po w/ numerous small gte-calcite cherts & fine dissemin. py. External contacts sharp & parallel dominant flts. Core intact & recovery good.		
L	11612	6	11716	0		116	14I14I	sandy ± 1 ± 0 (4G4) 95:05 very oxidized Dominantly soft, porous & locally vuggy, weathered, pyrite. Sandy texture. Contains thin pods & bands of pegmatitic white gte. Interval 173-174 poorly banded, steeply dipping gte-rich bands. Lower part of interval contains bands of 4G4		

Code	From		To		Recov.		No.		Unit		Description
	10	14	16	20	22	24	26	28	30	34	
											w/ poorly defined thick laminae. Abundant honey-colored sphalerite (10" thick) lower contact of unit lost in rubble. TOI- 173 very rubble w/ only 2' core. - Sandy py probably washed out leaving gr-rich segments / 173-174.5 med. blkw w/ good recovery / 174.5- EOT rubble, recovery seems OK Estimated grade 7% (Pb+Zn) Py content 70-80%.
L	11716	0	11812	8				117	1464	8	<p>55.7</p> <p>Homogeneous, poorly banded, light brown-gray, massive pyritic/basitic S<sup>2+</sup>. Noncalcareous. Banding evident from sphal-rich thin intervals and thick pyritic intervals. Compositional banding nearly parallel w/ core axis. Magnetite as small blebs and streaks aligned in dominant foliation. At 177.6' have 3" thick fractured &amp; weathered congl vein w/ abundant interstitial dk green chlorite. Chlorite also as selvages. Upper contact of unit lost in rubble. Lower contact sharp &amp; parallel dominant fltn. Estimated grade 13% (Pb+Zn) Py content 60% Barite content 20% Core intact w/ good recovery</p>
L	11812	8	11914	0				118	141E14	8	<p>59.1</p> <p>(3B2) minor</p> <p>Hard, brassy yellow to mustard-brown, noncalcareous, fine-grained pyrite. Contains abundant magnetite forming thin streaks and blebs ranging up to 5mm across. Magnetite-rich laminae contain disseminated py and sphal. At 190.8', dk olive green, soft, noncalcareous, homogeneous chloritic phyllite. Phyllite has poorly defined laminae parallel core axis. Large irregular gr-rich pods &amp; lenses up to 3cm across. Estimated grade 6% (Pb+Zn) Core intact w/ good recovery.</p>

Code	From	To	Recov.	No.	Unit	Description
	10 14 16 20 22 24 26 28 30 34 35					
	11914.0	11918.5		119	14E418 #	[4K48] Very calcareous, pale yellow to dull light grey pyritic S <sup>2</sup> . Calcite occurs as thick laminae and decuss. in matrix. Calcite bands up to 3-4 cm thick and has a beaded-texture. Bands parallel dominant fibre (= PS2?) Magnetite as thin streaks parallel PS2 and as small disseminated spots. Base metals in thin laminae    PS2. Core intact / recovery excellent. Grade = 9% (Pb+Zn)
L	11918.5	121016.7		120	14C131#	(10Q #) 95:05 ← slightly oxidized [4C0# = 3] Hard, mottled white to light grey & yellow, calcareous, pyritic etc. Poorly defined banding based on py content - steeply dipping - up to 4 fold noses/closures noted in interval. Contains 10-20 cm intervals of pegmatitic pt-calcite w/ minor interstitial py. Approx 2' of interval is more pyritic. Locally unit is slightly porous and vuggy w/ calcite weathering out along steep fractures. Cut surface has or weathering yellow locally. Estimated py content 35%. Estimated grade 3% (Pb+Zn). TOI-197.8 intact recovery OK / 197.8-198.8 mod. rubble - recovery OK / 198.8-EOT intact recovery OK.
L	121016.7	121113.3		121	14G418	light grey to dull mottled brown, poorly laminated basitic S <sup>2</sup> . Noncalcareous. Minor pegmatitic white pt w/ associated cl-sphalerite. Abundant honey-colored sphalerite. Magnetite disseminated as blebs/spots and streaks. Laminae defined by honey-colored sphalerite. Estimated grade 20% (Pb+Zn) Core slightly broken except for mod. rubble 211.6-212.4. Recovery good

Code	From			To			Recov.	No.	Unit	Description
	10	14	16	20	22	24				
L	121113	3		121211	8			1212	14E14#	±1 ±8 Hard, calcareous, brassy yellow, moderately siliceous, pyritic S <sup>+</sup> Base metal + magnetite rich laminae parallel dominant folio (S2?) locally they have a pseudo-colloform texture. Laminae not common - only locally developed. Fold closure noted near TOE. defined by bedded cc-qtz laminae. Comp. banding    core axis. Py content 70% (Pb+Zn) = 7%. Core intact except for mod. broken 219.5-220.5. Recovery OK.
L	121211	8		121214	8			1213	14G14B	# minor (100 \$) 65:35 Fine-grained, shaly laminated, baritic/pyritic S <sup>+</sup> . CC-qtz as local thin laminae    S2 and 1mm - 1cm clasts. Magnetite as fine, disseminated specks. Estimated grade 15% (Pb+Zn) Py content 50%. Good honey-coloured sphalerite. Bottom 1.5' pegmatitic dolomite - qtz vein w/ scintillating py-filled fractures up to 1.5cm thick. Dol is tan-buff, grey. Core intact - recovery good.
L	121214	8		121312	0			1214	14E110	Brassy yellow, grey streaked, hard pyritic. Noncalcareous. Qtz as thin bands w/ disseminated py. Bands ~ 1cm thick. Bands parallel P2(?) Estimated grade 3%. Py content 85%. Core intact except mod. broken 228.8 & 230-10cm at each. Recovery good.
L	121312	0		121513	4			1215	14G10A	±3 9 minor (3B \$) 95:05 Very hard, noncalcareous, light grey, poorly banded, moderately pyritic etcite. Py occurs as diffuse bands 1cm - 2cm thick and parallel S2. Locally py-rich zones up to 2' thick. Est. py content varies 20-40%. No grade. S py as fracture infilling in etcite. 249.8-250.7 dk green and yellow tan

Code	From	To	Recov.	No.	Unit	Description
	10 14	16 20	22 24	26 28	30 34	35
						striped chloritic phyllite. white stripes are dolomite-qtz. 52 folia are dk olive green w/ buff-tan patches. Upper & lower contacts sharp. Core recovery good / Core intact except phyllite which is mod. broken
L	1215134	1216118 <sup>(77.8)</sup>		1216	141C131#	79 ± 5 Brassy yellow, grey streaked, calcareous, pyritic quartz. Py as diffuse bands about 1cm thick parallel P22. Contains numerous calcite-qtz clasts up to 1cm across. Splasy qz and spy infilling scuttling fractures in qtz intervals. Fractures are nearly parallel core axis. Interval 255-255.8 contains thin carbonaceous folia defining P22. Core intact - recovery good. Estimated grade 2% (Pb+Zn) Py content 20-60%.
L	1216118	1219144 <sup>(39.7)</sup>		1217	141C1018	minor 79 v. minor ± 3 ± 5 (3B\$) minor Similar to last unit # 26 (253.4-261.8) only no calcite. Also py content is less than last unit. Interval w/ thin carbonaceous folia 266.4-267.2. Numerous thin, steeply dipping scuttling fractures infilled w/ qz, spy, py local qtz-calcite clasts 1mm - 3cm across. Some galena infilling fractures in larger clasts. Thin dk green chloritic phyllite @ 269.2-269.7. white stripes are qtz-dolomite. Diffuse pyritic bands up to 1.5' thick. Est. py content 15-50%. Est. grade 1% (Pb+Zn) Core intact except mod. broken for metabasite. Recovery OK.
L	1219144	1311120 <sup>(95.1)</sup>		1218	141C1310	9 minor 8 v. minor Brassy yellow, qtz-grey streaked, very hard, pyritic quartz. Py occurs as thick, diffuse bands containing minor interstitial qtz. Bands up to 1' thick. Numerous steep very thin fractures filled w/ qtz-spy. Qtz also forms sporadic clasts w/ magnetic selvages. Clasts up to 2cm across. Py content 75%-25%. Grade 0%. Core intact / recovery good.

CURRAGH RESOURCES INC.  
 Lithologic Log

Code	From				To				Recov.		No.		Unit	Description
	10	14	16	20	22	24	26	28	30	34	35			
L	1311	120	<sup>99.7</sup> 1312	170			1219		131G1017				Bio "Stringered" Moderately soft, dominantly P52 foliated, light grey - greenish tinged, non-calcareous phyllite. S2 folia are shiny silvery grey with some greenish patches. Chlorite in thin laminae & stringers - associated w/ fine pp. Commonly looks like micro-lithon texture. Biotite patchily developed as thin "feathery" selvages to chlorite. Core intact / recovery good. Pegmatite with small pt veins up to 15cm thick.	
													EOH	

ASSAY LOG (SAMPLER'S COPY)

CODE	FROM		TO		SAMPLE	INTR.	REC (m)	UNIT	DESCRIPTION
	10	14	16	20					
P	1710	6	1712	9	1112146		123	41A141	slightly oxidized
P	1712	9	1717	6	1112147		152	41E141	porous mod. oxidized
P	1717	6	1812	3	1112148		150	41E141	porous mod. oxidized
P	1812	3	1815	4	1112149		137	41E141	porous mod. oxidized
P	1815	4	1817	0	1112150		117	41C141	gouge
P	1817	0	1819	7	1112151		130	41E141	porous slightly oxidized
P	1819	7	1913	6	1112152		143	41E141	porous slightly oxidized
P	1913	6	1916	4	1112153		134	41E141	porous slightly oxidized
P	1916	4	11013	3	1112154		164	41A140	"
P	11013	3	11018	3	1112155		164	41A140	"
P	11018	3	11112	0	1112156		141	41E141	
P	11112	0	11115	5	1112157		138	41E141	
P	11115	5	11118	9	1112158		139	41E141	
P	11118	9	11214	5	1112159		161	41A141	
P	11214	5	11218	4	1112160		148	31G10161	
P	11218	4	11313	2	1112161		148	31G10161	
P	11313	2	11315	8	1112162		138	41E141	#6
P	11315	8	11416	3	1112163		149	41G141B1	
P	11416	3	11411	8	1112164		118	31G101416	
P	11411	8	11416	3	1112165		144	41H17141	
P	11416	3	11513	3	1112166		174	41E141B1	
P	11513	3	11516	1	1112167		134	41G141B1#	
P	11516	1	11612	6	1112168		138	41G141B1#	
P	11612	6	11713	1	1112169		130	41E141°	very oxidized
P	11713	1	11716	0	1112170		127	41E141	very oxidized
P	11716	0	11719	6	1112171		136	41G141B1°	
P	11719	6	11812	8	1112172		130	41G141B1	
P	11812	8	11817	2	1112173		150	41E141B1	
P	11817	2	11914	0	1112174		151	41E141B1°	
P	11914	0	11918	5	1112175		145	41E141B1#	
P	11918	5	12011	8	1112176		156	41C131#1	slightly oxidized
P	12011	8	12016	7	1112177		155	41C131#1	slightly oxidized
P	12016	7	12019	7	1112178		143	41G141B1	
P	12019	7	12113	3	1112179		144	41G141B1	
P	12113	3	12117	3	1112180		148	41E141#1°	
P	12117	3	12211	8	1112181		148	41E141#1	

ASSAY LOG (SAMPLER'S COPY)

CODE	FROM			TO			SAMPLE	INTR.	REC (m)		UNIT	DESCRIPTION	
	10	14	16	20	22	26			28	30			32
P	1212	118		1212	118		1112182				136	4164181	
P	1212	148		1213	120		1112183				163	41E1101	
P	1213	120		1213	165		1112184				146	41C101	
P	1213	165		1214	111		1112185				137	41C101	
P	1214	111		1214	155		1112186				144	41C101	
P	1214	155		1214	195		1112187				144	41C101	
P	1214	195		1215	134		1112188				141	41C101	
P	1215	134		1216	118		1112189				189	41C13 #1	
P	1216	118		1216	161		1112190				151	41C1081	
P	1216	161		1217	110		1112191				149	41C1081	
P	1217	110		1217	156		1112192				149	41C1081	
P	1217	156		1218	101		1112193				146	41C1081	
P	1218	101		1218	147		1112194				152	41C1081	
P	1218	147		1218	197		1112195				155	41C1081	
P	1218	197		1219	144		1112196				150	41C1081	
P	1219	144		1219	199		1112197				158	41C131	
P	1219	199		1310	159		1112198				162	41C131	
P	1310	159		1311	120		1112199				155	41C131	

Code	From					To					Feature	SYN	S <sub>0</sub>		S <sub>1</sub>		S <sub>2</sub>		Description	
	10	14	16	20	22	24	26	28	32	34			38	40	44	Dip	Direct.	Dip		Direct.
S				21.9		17	20				P1S12							318	21210	carbonaceous bands in 4A
S				26.5		18	20				P1S12							118	21210	py banding in 4E4 - R51? folded around fold nose
S				39.9		19	20				P1S12							118	21210	sphal-rich laminae in 4D5 possibly R51 - also fold closure
S				34.4		11	13				P1S12							213	21210	py banding in 4E4 - R51?
S				36.4		11	19				P1S12			210	01010	510	21210			carbonaceous laminae in 4A
S				29.6		11	13				P1S12							118	21210	possibly actually R51 - dominant fltn.
S				46.3		11	15				P1S12							514	21210	py banding in 4E4
S				55.3		11	18				P1S12							515	21210	banding in 4E4
S				61.3		12	01				P1S12							114	21210	py banding in 4C - possibly probably S1 fold closures present
S				68.0		12	21				P1S12							416	21210	banding in 4E4
S				70.6		12	31				P1S12							417	21210	py banding in 4C
S				77.9		12	51				P1S12							617	21210	carbonaceous banding / folia in 4C5
S				83.4		12	71				P1S12							812	21210	py banding in 4C
S				87.5		12	81				P1S12							618	21210	py banding in 4C
S				93.0		13	01				P1S12							618	21210	py bands in 4C
S				96.9		13	11				P1S12							814	21210	dominant fltn
																				EOH

Fault Log

Code	FROM		TO (At)		Feature	REG	UPPER Dip Direct		INTERNAL Dip Direct		LOWER Dip Direct		Description
	10	14	16	20			22	24	26	28	32	34	
F	1101	11710	0	1110	0								Triconed - no recovery
F	11710	0	11710	6	131B								assorted pebbles
F	11710	6	11712	9	121B								mod brkn - recovery OK
F	11712	9	11719	0	31B1R								very brkn & rubble - recovery OK
F	11719	0	11812	0	121B								mod. brkn - recovery OK
F	11854		11854		131R								very rubblely - recovery OK
F	11854		11870		31B1G								very brkn w/ 4h gouge
F	11854		11870		1F								fault? - gouge of 4L w/ 4C & 4E clasts
F	11870		11915		121B								mod brkn
F	11915		11915		1R1Q								0.3' rubble assoc w/ qtz vein
F	11916	4	111010	0	111B								mod. brkn to intact
F	111010	0	111010	5	131R								very rubblely
F	111010	5	111017	4	111B								slightly brkn to intact
F	111017	4	111017	8	131R								very rubblely
F	111017	8	111018	3	111B								slightly brkn
F	111018	3	111118	9	111B								intact to slightly brkn - recovery excellent
F	111130		111140		1Q1D								pegmatitic qtz vein as "clasts" in massive S <sup>2</sup>
F	111210		111213	3	31B1R								very brkn & rubblely
F	111210		111213	3	111G								some gouges - metabasite
F	111213	3	111214	5	121B								mod brkn
F	111215	7	111216	5	1R1G						919	91919	soft rubblely gouge, lower contact parallel S <sup>2</sup>
F	111313	2	111315	8	121B								mod brkn - recovery good
F	111315	8	111314	8	111Q								qtz vein
F	111410	3	111411	7	131B								very brkn
F	111410	3	111416	3	111D								ductile flow bxa w/ clasts
F	111416	3	111513	3	111D								small phyll. clasts in 4E
F	111612	6	111713	0	31R1P1								very rubblely - 19% recovery
F	111713	0	111714	5	121B								mod. brkn - good recovery
F	111714	5	111716	0	131R								rubble - recovery OK
F	111716	0	111717	6	111Q								3" fractured & weathered cc - qtz vein
F	111917	8	111918	8	121R								mod. rubblely - recovery OK

DDH BZV-08  
2 8

CURRAGH RESOURCES INC.  
Fault Log

Date: Feb 3/88 Logged By: LCP

Code	FROM			TO (At)			Feature	REG	UPPER		INTERNAL		LOWER		Description
	10	14	16	20	22	24			26	28	32	34	38	40	
F	121016	7	12113	3	11B										slightly broken - recovery good
F	12111	6	12112	4	12B										mod. rubblely - recovery good
F	12119	5	12120	5	12B										mod. broken - recovery OK
F	12123	3	12124	8	12										qtz vein
F	12111	9	12128	8	12B										10 cm mod. broken
F	12111		12130	0	12B										10 cm mod. broken
F	12149	8	12150	7	12B										mod. broken phyllite in massive
F	12169	2	12169	7	12B										mod. broken metabasite in 4C

EO#

PROJECT \_\_\_\_\_ DRILLHOLE NO. 87V-08 COORDINATES: N \_\_\_\_\_ DATE \_\_\_\_\_ 19\_\_  
 LOCATION \_\_\_\_\_ HOLE SIZE NQ E \_\_\_\_\_ PAGE \_\_\_ of \_\_\_  
 LOGGER \_\_\_\_\_ INCLINATION -90° 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		COMMENTS	
		LENGTH	%	LENGTH	%		CATEGORY	NO.			DEPTH	ANGLE	NO.	FREQ.	NO.	FREQ.		
70		0		0														Trimmed
75		4.7		0														
79		4.6		1.8														
82		2.8		1.4														
87		5.1		0.6														
91.5		5.7		1.6														
92		0.3		0														
97		6.0		1.4														
100.5		3.4		1.4														
105.5		4.0		0.4														
107.0		2.6		0														
112.0		5.3		2.8														
117.0		4.7		1.6														
121.0		4.5		0.8														
125.0		4.2		0.5														
127.0		2.3		0														
137.0		11.1		4.3														
147.0		10.1		8.8														
152.0		5.0		5.0														
157.0		5.4		2.9														
163.0		3.0		2.1														
167		0.3		0														
172		0.4		0														
176		3.6		0.9														
181.5		4.8		4.4														
186.5		5.2		3.8														
191.5		3.1		3.1														

Fig. 1. Typical rock mechanics core log.

PROJECT \_\_\_\_\_ DRILLHOLE NO. 87V-08 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		ROD		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.		
196.5		5.2		5.0														
200		4.6		4.3														
202		2.3		2.0														
205.5		4.4		2.9														
210		5.8		3.9														
215		6.0		4.6														
220		5.2		4.6														
225		5.6		5.0														
230		4.2		3.4														
231.5		1.0		0.6														
236.5		5.2		4.9														
242		5.1		5.1														
245		2.7		2.4														
250		5.3		4.5														
255		5.2		4.5														
260		5.0		4.6														
270		10.7		7.9														
275		5.0		3.4														
280		5.3		5.0														
282		2.1		2.1														
287		5.2		4.4														
292		5.0		4.3														
297		5.0		5.0														
302		5.0		4.8														
307		5.0		3.6														
312		5.0		4.7														
317		5.0		4.1														
322		5.0		3.7														
327		5.3		3.8														

EDH

Fig. 1. Typical rock mechanics core log.

A decorative vertical element consisting of a central dashed line with wavy, curved lines extending from the top and bottom. The number 9 is centered on the dashed line.

**9**

DIAMOND DRILL CORE LOG

Date: \_\_\_\_\_

Hole Number: 87V-09

Reference Fabric Orientation Diagram:

Project: 1987 Vangoula Drilling

Location: Vangoula Deposit

Claim: \_\_\_\_\_

Terr. Plane Co-ords.: 6903382.69 N

594002.29 E

Grid Co-ords: 3E / +0.5

Elevation: 1131.77

All symmetry determinations looking

Total Depth: 327 feet (99.7 m)

NW with 52 dipping

Inclination: -90° (vertical)

SW with dip azimuth \_\_\_\_\_.

Purpose: ore reserve definition + metallurgical sampling

Reason hole Terminated: drilled through ore deposit

Logged by: LCP / CR

Date(s) Logged: OCT 26 / 87

Drilling Contractor: ARCTIC DIAMOND DRILLING

Hole Cemented: No Steel down Hole: No

Size	CORE From	To	Collar Cased and Capped: <u>No</u>
<u>NW</u>	<u>0</u>	<u>60</u>	
<u>NQ</u>	<u>60</u>	<u>327</u>	
_____	_____	_____	

Assay Lab: MINE

Certificate No's: \_\_\_\_\_

Started: OCT 19/87 Completed: OCT 21/87

CURRAGH RESOURCES INC.

DDH 87V-09  
2 8

Diamond Drill Core Log 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	87V-09	1113	1108	9033	827	594	0023		52

Code	Drillhole	Depth		Zenith Angle	True Azimuth	Comments
I	2	8	10	14	22	26 28 32 34 56
R	87V-09		00	180°00'	0°00'	AT COLLAR

Code	Drillhole	Comments, Errant Remarks, Snivellings and / or Lewd Suggestions
I	2	8 10 56
		WATER FLOWING FROM HOLE AT END

DDH 87 V - 09  
2 8CURRAGH RESOURCES INC.  
Lithologic LogPage 3 of       Date: OCT 26/87 Logged By: LCP + CVR

Code	From				To				Recov.				No.				Unit	Description
	10	14	16	20	22	24	26	28	30	34	35	1	2	3	4			
L		10			18.3 16.0										1	#	TRICONED NO RECOVERY	
L		16	10		20.1 16.7	0									12	#	No core recovered - overbroken assumed	
L		16	17	0	23.5 17.7		4								13	4A10	very oxidized (4C very oxidized) 95:05  very hard non calcareous dark grey → grey ribbon banded gteite. Most P <sub>2</sub> now weathered to bright orange-brown powder occurring as spots, fracture coatings, + S <sub>2</sub> folia coatings. S <sub>2</sub> folia are dull 'sooty' black. Est Pb+Zn 0%. P <sub>S2</sub> foliated.  4C is a light creamy-tan gteite occurring as 10 cm bands at EOI and 74.7'.  67-72' very rubbly - pebbles in core box. 1' of core / 72-EOI is very broken - poker chippy. Recovery is 0.K	
L		17	17	4	24.3 17.9		8								14	5D4	very oxidized  Bright orange-brown mud! Phylitic aspect totally lost as core is extremely weathered + oxidized. Locally can see small flakes of bright green fuchsinite? or mariposite? indicating this was a Modakosite. 4A bleached to 4C on each side of the unit. Unit is non calcareous.  Core is very broken to rubbly. Rec. O.K.	
L		17	19	8	27.6 19.10		4								15	4A10	mod. oxidized (4C mod. oxidized) minor  Non calcareous, very hard, dark grey ribbon banded, psitic gteite. S <sub>2</sub> folia are dull black and locally have an orange-brown carbonate coating. (S <sub>2</sub> foliated. P <sub>S2</sub> content ≈ 10% P <sub>S2</sub> restricted to gte, S <sup>-</sup> bands.  Est Pb+Zn 1%. 15 cm of 4C at top of unit against metabasite.	

Code	From	To	Recov.	No.	Unit	Description
	10 14 16 20	22 24 26 28	30 34 35			
						Core is moderately broken & potter chippy. Rec is O.K.
L	19 10 4	30.3 19 9 5		16	41A14 ±0	Hard, non calcareous, dark grey ribbon banded gteite. Dominately $PS_2$ foliated although locally microlithons are visible. $S_2$ folia are dull sooty-black. Major evidence of weathering is absent. Est $P_y$ 5%. Spl much greater than $P_y$ . Est $Pb+Zn$ 7% with local intervals up to 12%. Core is moderately broken Rec is good.
L	19 9 5	34.9 11 14 6		17	4L161214 (480 ± 5) (3B3) (4H4) 50:25:15:10	Totally mixed units. The major rock type is a soft pale greenish-white micc. chl. phyllite with thin stringers of dess. base metals + py. $S_2$ folia are a light silvery-cream. Interbedded with this unit is a medium green & white striped moderately calcareous chloritic phyllite the $S_2$ folia are a dull to light green. Interval contains bands of medium grey gteite with irregular stringers of Spl $\geq P_y$ . Est $Pb+Zn$ 8%. Locally gteite has thin dark grey carbonaceous folia. Final rock type a fine grained bronze massive $P_0$ with clasts of gtz up to 1cm across. Banding between rock types is on a scale of 10cm to 50cm. 4L is dominant near the top & bottom of the interval. Core is moderately broken, Rec O.K. There is a 10cm very rubble zone at 106'.
L	11 14 6	36.4 11 19 3		18	4H1418	A fine grained bronze, massive $P_0$ with abundant dol clasts & lesser gtz clasts up to 1cm $\phi$ . Lower part of interval contains

Code	From		To		Recov.		No.		Unit		Description
	10	14	16	20	22	24	26	28	30	34	
											abundant Mag. clasts. Irregular splotchy Pb overprints the fine grained ductile flow texture. Est Pb+Zn 12%. Locally there is very minor Py. Core is intact. Rec O.K. Upper + lower contacts are sharp.
L	11193		38.4 112160					9	141614B	# (3C4\$) (4E46B\$) 60:35:5	Upper part of unit is a thickly laminated reddish-grey, slightly calcareous, baritic sulphides. Laminae defined by Sph, Py + Mag streaks. Calcite dess in mtx. Est Pb+Zn 15% Est Py 30%. Contains 5-15 cm clasts of off-white + grey green striped gtz, dol, chl, phyllite. Phyllite has a leopard rock texture. Bottom of the interval is fine grained, brassy Pyritic S <sup>-</sup> , w/ some baritic bands. Mag dess as thin streaks. Off white Dol clasts are common. Est Pb+Zn 7%. Core is intact. Rec is good.
	112160		42.5 113193					110	141614#		Thickly laminated, yellowish-grey moderately hard baritic S <sup>-</sup> . Interval is slightly calcareous. Laminae consist of diffuse yellowish-pyritic, honey Sph rich + grey Gal rich laminations. Upper contact is sharp against pyritic S <sup>-</sup> . Lower contact is gradational. Est Pb+Zn 18% Est Py 15-30% locally, although generally low with Py dess as small grains. Core is intact → moderately broken. Rec is good.
	113193		47.2 115149					111	141614B	# \$	Thickly laminated to very thinly banded, slightly calcareous, moderately hard, reddish, purplish-grey baritic S <sup>-</sup> . Calcite dess in mtx. Dol occurs

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	22	24	26	28	30		34	35	
																							as numerous clasts associated with gtz - up to 3cm $\phi$ . Banding defined by variations in $P_g$ , Spl, Ba, & Mag content. Est Pbt Zn 14%. Est $P_g$ ranges from 15 $\rightarrow$ 60%. Pristic intervals form bands that are 1cm to 10cm thick. Distinguished from last unit by reddish-brown Spl. Core is intact Rec O.K.	
L	154	9	116	12					112	14	16	18	(40)	(3B \$ 6)	(10 Q 9)	60:15:10:15								Reddish-grey non calcareous, thickly lam. moderately hard, Ba S <sup>-</sup> . Est Pbt Zn 15%. $P_g$ content 25%. Minor thin Mag streaks + blebs. Other lithologies present as large clasts. Upper most clast is a fine grained light grey gtzite. 3B \$ is a white + greenish grey striped moderately Dol phyllite. 10 Q 9 consists of psammitic white gtz with associated irregular Dol, reddish-brown Spl + brassy-yellow $P_g$ . Clasts are up to 40 cm $\phi$ . Core is intact. Rec O.K.
L	116	12	118	17	0				113	14	16	18	(3C \$ 7 ± # ± bio)	80:20								Diffusely laminated brownish-yellowish grey, moderately hard non calcareous $p_g$ /ba S <sup>-</sup> . Minor dess mag specs. $P_g$ content ranges from 15% $\rightarrow$ 50%, more commonly near the former. Est Pbt Zn 13%. Contains numerous clasts + bands of P moderately soft green + white striped chl phyllite. Bands range in size from 3cm to 50 cm. Locally they exhibit a preserved micro litten texture. White stripes contain either calcite or dol depending on the particular band. One band is a dark brown colour		

DDH 8.7V.0.9.  
2 8CURRAGH RESOURCES INC.  
Lithologic LogPage 7 of \_\_\_\_\_Date: OCT 26/87 Logged By: LCP + CUR

Code	From	To	Recov.	No.	Unit	Description
	10 14 16 20 22 24 26 28 30 34 35					
						because of abundant Bio. Contacts are both // + X-cutting S <sup>-</sup> banding in Ba S <sup>-</sup> .
						Generally the foliation in chloritic phyllite is consistent with S <sup>-</sup> banding
						Core is intact. Rec. O.K.
L	11870	<u>58.3</u> 11929		114	41G1418	± # minor (3C \$ 7) 85:15
						Similar to last unit w minor calcite detrs in Ba S <sup>-</sup> at top + bottom of unit. Same green + white striped dolomites, chloritic, phyllite in a 30 cm clast starting at 190.5.
						Est PbZn 14% Est P <sub>3</sub> 25% in detrs grains
						Core is intact Rec. O.K.
L	11929	<u>61.4</u> 12013		115	41E108	± # minor ± 46
						Dominately a fine grained, brassy yellow P <sub>3</sub> w thin laminae poorly defined by fine Mg streaks + interstitial Dol. Locally contains Sph + Bc rich calcareous horizons. Compositional banding at a shallow L to core axis.
						Est PbZn 2%. Core is intact.
	12013	<u>63.6</u> 12018		116	41G1418	± # minor
						Reddish-brown to yellowish-grey diffusely laminated locally slightly calcareous Ba S <sup>-</sup> . Minor Mg in tiny blebs. Colour changes from brown → grey as you move down unit w the development of honey coloured Sph.
						Est PbZn 14% Est P <sub>3</sub> 30%
						Core is intact.

Code	From				To				Recov.			No.			Unit			Description			
	1	10	14	16	20	22	24	26	28	30	34	35	1	10	14	16	20		22	24	26
		12	10	18	5																# 79 minor
																					An irregular laminated → banded py base metal rich s <sup>-</sup> w numerous large clasts + bands of medium grey quartz and/or white calcite. Qtz rich areas have minor Po + Cps in filling fractures. Fine grained Mag associated w Sph rich areas.
																					Est Pb+Zn 15-17% Est Py 40%
																					Core is intact. Rec O.K. This unit is intermedial between a Py quartzite + siliceous pyrite w extremely high grade.
		12	11	12	7																# 7 minor
																					Est Pb+Zn 13% Est Py 20%
																					Irregular qtz bands + clasts sitting within a sulphide matrix consisting of base metals, Ps + Mag. Minor 'splashy' Po in X-cutting fractures
																					No carbonates present. Qtz content > than last unit
																					Core intact. Rec. good.
		12	11	15	0																# minor ± 7 minor (4D3B ± minor ± 7 minor)
																					Background unit is a fine grained brassy yellow Py with abundant interstitial dross qtz, Sph, Mag. Ps content ≈ 70%.
																					Interbanded with this on a scale of 1cm to 20 cm is a dark grey quartzite w fine grained calcite + dark brown Sph, Mag laminae.
																					Locally this banding defines fold hinges, noses. Minor Po in filling X-cutting fractures Overall Ps ≈ 45%, Est Pb+Zn 10%.
																					Core intact. Rec. Good.

Code	From	To	Recov.	No.	Unit	Description
1	10 14	16 20	22 24	26 28	30 34	35
	12 19 8	12.0 12 13 16 1		12 10	14 P 14 B 73	9 minor Est Pb+Zn 14% Est sulphide content 65% Irregularly banded S <sup>-</sup> + medium gres to white gteite. Entire interval is very hard. Minor "splashy" Cpy infilling fractures. Locally P <sub>3</sub> is replaced by fine grained Po Abundant fine grained Mag associated w Sph rich bands. Unit is similar to last 2 units. Upper contact marked by disappearance of calcite + appearance of significant Po. Core is intact. Rec is good
	12 13 16 1	73.9 12 14 2 3		12 11	14 E 11 4 B 17 [4 38 17]	Medium grained, hard, dark brassy yellow, very pyritic gteite / very siliceous pyritic massive S <sup>-</sup> . Thin irregular base metal laminae commonly associated w. Mag. Noncalcareous. Contains minor small gte clasts. One 10 cm interval has Po replacing P <sub>3</sub> . Est Pb+Zn 9% Est P <sub>3</sub> 70-75% Core is intact. Rec. is good.
	12 14 2 3	82.1 12 16 19 3		12 12	14 B 1 B 79	minor all gres, very hard, noncalcareous, gteite. P <sub>3</sub> desc as medium grained aggregates forming diffuse bands generally 1 to 5cm thick. Thin irregular base metal + Mag bands generally // to an assumed S <sub>2</sub> . Contains 'splashy' coarse grained pegmatitic gte with interstitial Sph + Mag. Est P <sub>3</sub> 25-30% Est Pb+Zn 9% Minor 'splashy' Po + Cpy infilling small X-cutting fractures Core intact. Rec. is good

Code	From	To	Recov.	No.	Unit	Description
1	10 14 16	20	22 24	26 28	30 34 35	
	2619 3	21818 0		123	4181	# minor 79 minor Similar to last unit only contains 1-2cm bands of calcite. Est Pb+Zn 9% Est Py 25% Oxidized intervals locally have a dull green colour on the wet cut surface. Core is intact. Rec is good. Lower contact is gradational + is marked by ↓ in grade.
	21818 0	3011 3		124	4101	± # minor [4L12] Hard, dull grey, generally non calcareous, slightly pyritic quartzite. Barely scratches with a nail. Locally vague microolithons defined by calcite. Diffuse 1-2cm bands of S <sub>2</sub> defined by dense py. Wet cut surface has a greenish tinge. Py content 10-15% Est Pb+Zn low. S <sub>2</sub> folia are dark shiny-grey. This unit looks much like a silicified wall rock. Core is intact. Rec is good.
	3011 3	303 7		125	41017	± # minor [4L17] Exactly the same as last unit only Py has been replaced by Pa. Similar textures + S <sup>-</sup> content. Core is intact. Recovery is good.
	3013 7	31214 5		126	31017196	Medium dark grey, moderately hard, generally non calcareous, phyllite. S <sub>2</sub> folia are dark shiny grey, very locally contains minor calcite in lithons. Has a banded texture caused by dark grey micaceous folia separating medium grey siltstone bands. Siltstone contains dense

Code	From				To				Recov.		No.		Unit		Description		
	10	14	16	20	22	24	26	28	30	34	35						
															green mineral (chlorite?) Minor Po as thin stringers generally // S <sub>2</sub> <sup>+</sup> X-cutting S <sub>2</sub> . Phyllite is harder than typical 3G Core is intact. Rec. is good		
	13	14	5								1217	316	10	17	19	6	Similar to last unit, only contains reddish-brown Spk as thin stringers associated to Po. Est. Phyl <sub>2n</sub> 2-3% Core intact. Rec good. Est. Po 10%
	13	16	1								1218	316	10	17	19	6	Same as unit 26. Core intact. Rec is good. Phyllite is moderately hard → soft. Est Po 2% Core intact. Rec is good.
																	EOH XXXXXXXXXX

ASSAY LOG (SAMPLER'S COPY)

CODE	FROM	TO	SAMPLE	INTR.	REC (m)	UNIT	DESCRIPTION
1	10 14 16 20 22 26 28 30 32 34 36 40 42						
	1 16 17 0	1 17 12 0	3102101	1	110	14A10	very oxidized
	1 17 20	1 17 17 4	3102102	1	177	14A10	very oxidized
	1 17 17 4	1 17 19 8	3102103	1	124	15D14	very oxidized
	1 17 19 8	1 18 15 1	3102104	1	162	14A10	mod oxidized
	1 18 15 1	1 19 10 4	3102105	1	156	14A10	mod oxidized
	1 19 10 4	1 19 14 9	3102106	1	150	14A14	0
	1 19 14 9	1 19 19 5	3102107	1	150	14A14	
	1 19 19 5	1 10 13 7	3102108	1	145	14L14	3C
	1 10 13 7	1 10 17 5	3102109	1	143	14D18	4H + 3C
	1 10 17 5	1 11 0 8	3102110	1	136	14L	3C
	1 11 0 8	1 11 14 6	3102111	1	140	14H14	3C
	1 11 14 6	1 11 19 3	3102112	1	150	14H14	
	1 11 19 3	1 12 13 1	3102113	1	141	14D14	0
	1 12 13 1	1 12 16 0	3102114	1	131	14E146	
	1 12 16 0	1 13 10 8	3102115	1	150	14G14	
	1 13 10 8	1 13 15 0	3102116	1	148	14G14	
	1 13 15 0	1 13 19 3	3102117	1	149	14G14	
	1 13 19 3	1 14 13 2	3102118	1	146	14G148	
	1 14 13 2	1 14 17 4	3102119	1	143	14G148	
	1 14 17 4	1 15 11 1	3102120	1	141	14G148	
	1 15 11 1	1 15 14 9	3102121	1	142	14G148	
	1 15 14 9	1 15 18 9	3102122	1	142	14G	100 4C
	1 15 18 9	1 16 11 2	3102123	1	122	14G14	
	1 16 11 2	1 16 15 4	3102124	1	148	14G14	
	1 16 15 4	1 17 0 4	3102125	1	150	14G14	
	1 17 0 4	1 17 4 4	3102126	1	147	14G14	
	1 17 4 4	1 17 18 8	3102127	1	148	14G14	0
	1 17 18 8	1 18 13 1	3102128	1	145	14G14	
	1 18 13 1	1 18 17 0	3102129	1	142	14G14	0
	1 18 17 0	1 19 12 9	3102130	1	162	14G14	
	1 19 12 9	1 19 17 0	3102131	1	143	14E10	
	1 19 17 0	1 20 11 3	3102132	1	145	14E10	
	1 20 11 3	1 20 14 7	3102133	1	134	14G14	
	1 20 14 7	1 20 18 5	3102134	1	143	14G14	
	1 20 18 5	1 21 12 7	3102135	1	144	14D14	
	1 21 12 7	1 21 15 0	3102136	1	126	14D14	

## ASSAY LOG (SAMPLER'S COPY)

Date OCT 26/87 Sampled by \_\_\_\_\_

CODE	FROM			TO			SAMPLE			INTR.	REC (m)		UNIT		DESCRIPTION		
	10	14	16	20	22	26	28	30	32		34	36	40	42			
	12	15	0	12	20	1	30	23	7	1	15	1	14	10	13	18	
	12	20	1	12	25	0	30	23	8	1	15	0	14	10	13	18	
	12	25	0	12	29	8	30	23	9	1	15	0	14	10	14	4	4C38
	12	29	8	12	32	8	30	24	0	1	13	2	14	10	14	4	4C38
	12	32	8	12	36	1	30	24	1	1	13	7	14	10	14	4	4C38
	12	36	1	12	39	7	30	24	2	1	13	6	14	11	14		
	12	39	7	12	42	3	30	24	3	1	12	7	14	11	14		
	12	42	3	12	46	6	30	24	4	1	14	5	14	10	18		
	12	46	6	12	51	2	30	24	5	1	15	0	14	10	18		
	12	51	2	12	55	4	30	24	6	1	14	3	14	10	18		
	12	55	4	12	59	9	30	24	7	1	15	0	14	10	18		
	12	59	9	12	64	8	30	24	8	1	14	9	14	10	18		
	12	64	8	12	69	3	30	24	9	1	14	9	14	10	18		
	12	69	3	12	73	9	30	25	0	1	14	9	14	10	18		
	12	73	9	12	78	5	30	1	5	5	15	2	14	10	18		
	12	78	5	12	83	3	30	1	5	6	15	1	14	10	18		
	12	83	3	12	88	0	30	1	5	7	15	0	14	10	18		
	12	88	0	12	92	4	30	1	5	8	14	8	14	10	10		
	12	92	4	12	96	5	30	1	5	9	14	9	14	10	10		
	12	96	5	13	01	3	30	1	6	0	14	7	14	10	10		
	13	01	3	13	03	7	30	1	6	1	12	6	14	10	10		
	13	03	7	13	08	9	30	1	6	2	15	5	3	16	10	17	19 6
	13	08	9	13	14	0	30	1	6	3	15	3	3	16	10	17	19 6
	13	14	0	13	19	0	30	1	6	4	15	2	3	16	10	17	19 6
	13	19	0	13	24	5	30	1	6	5	15	4	3	16	10	17	19 6
	13	24	5	13	26	1	30	1	6	6	11	6	3	16	10	17	19 6

Code	From			To			Feature	SYM	S <sub>0</sub>		S <sub>1</sub>		S <sub>2</sub>		Description		
	10	14	16	20	22	24			26	28	32	34	38	40		44	
S							22.3 173	0	PIS	I				65	2210	Foliations in 4A	
S							25.3 183	0	CIS	I			10	010	53	2210	Foliations in 4A
S							28.7 194	0	CIS	I			40	019	65	2210	Foliations in 4A
S							38.9 112	1	PIS	I					54	2210	S <sup>-</sup> banding in 4G
S							40.2 113	2	PIS	I					77	2210	" " " "
S							46.0 115	1	PIS	I					57	2210	" " " "
S							52.4 117	2	PIS	I					61	2210	" " " "
S							53.9 117	7	CIS	I			29	010	56	2210	Foliations in 3C
S							56.7 118	6	PIS	I					46	2210	S <sup>-</sup> banding in 4G
S							62.5 120	5	PIS	I					65	2210	" " " "
S							69.8 122	9	PIS	I					80	2210	Qtzite + S <sup>-</sup> banding in 4D.
S							75.0 124	6	PIS	I					72	2210	S <sup>-</sup> banding in 4D
S							81.1 126	6	PIS	I					90	2210	S <sup>-</sup> banding
S							88.1 128	9	PIS	I					85	2210	Miraceous folia
S							92.4 131	0	PIS	I					73	2210	" "
S							96.6 131	17	PIS	I					75	2210	Miraceous folia

Fault Log

Code	FROM				TO (At)				Feature	REG	UPPER Dip Direct				INTERNAL Dip Direct.				LOWER Dip Direct				Description			
	10	14	16	20	22	24	26	28			32	34	36	38	40	44	46	50	54	58	62	66		70	74	
F	1	1	10	1	1	16	10	0	1	NIP	0													Triconed - no recovery		
F	1	16	10	0	1	16	17	0	1	NIP	0													No recovery - assumed overburden		
F	1	16	17	0	1	17	20	2	1	3IR	2													very rubbly - pebbles - 20% recovery		
F	1	17	20	0	1	17	17	4	1	3IBIT														very brken & poker chippy - recovery OK		
F	1	17	17	4	1	17	19	8	1	3IBIR														very brken & rubbly - recovery OK		
F	1	17	19	8	1	19	10	4	1	2IBIT														mod brken & poker chippy - recov OK		
F	1	19	10	4	1	19	19	5	1	12B														mod brken		
F	1	19	19	5	1	11	14	6	1	12B														mod brken - recovery OK		
F	1	11	14	6	1	11	10	16	0	1	13IR														10cm very rubbly	
F	1	11	14	6	1	11	11	19	3	1	ID														quartzite flow bxa of massive po	
F	1	11	11	19	3	1	11	12	16	0	1	ID														clasts of leopard rock in S <sup>=</sup>
F	1	11	12	16	0	1	11	13	19	3	1	11B														intact to mod brken - recovery good
F	1	11	13	19	3	1	11	19	12	9	1	ID														clasts in baritic massive S <sup>=</sup>
F	1	12	10	18	5	1	12	11	15	0	1	ID														clasts of striae & calcite in pyritic S <sup>=</sup>
F																										

PROJECT VANGORDA  
 LOCATION \_\_\_\_\_  
 LOGGER LCP + CVR

DRILLHOLE NO. 87V-09 COORDINATES: N \_\_\_\_\_ E \_\_\_\_\_  
 HOLE SIZE NQ  
 INCLINATION -90° ELEVATION \_\_\_\_\_

DATE OCT 26 1987  
 PAGE 15 of \_\_\_\_\_



**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		COMMENTS
		LENGTH	%	LENGTH	%		CATEGORY	NO.			DEPTH	ANGLE	NO.	FREQ.	NO.	FREQ.	
60		0		0													<i>Trimmed</i>
67		0		0													<i>No core</i>
72		1.0		0													
77		6.4		0													
82		5.3		0													
87		5.5		0.7													
92		5.1		0													
97		5.3		0.8													
102		5.3		1.6													
106		4.3		1.5													
109		3.2		1.1													
112		2.9		2.5													
117		5.1		2.8													
122		5.3		4.0													
127		5.2		3.1													
132		5.0		4.0													
135.5		4.0		0.8													
140.5		5.1		3.7													
142		1.4		1.2													
147		4.8		3.8													
152		5.4		3.2													
157		5.3		3.0													
162		5.0		3.3													
167		5.4		3.1													
172		4.9		2.9													
177		5.3		4.7													
182		5.2		2.0													

Fig. 1. Typical rock mechanics core log.

PROJECT VANGORDA  
 LOCATION \_\_\_\_\_  
 LOGGER LCP+CUR

DRILLHOLE NO. 87V-09 COORDINATES: N \_\_\_\_\_ E \_\_\_\_\_  
 HOLE SIZE NG  
 INCLINATION -90° ELEVATION \_\_\_\_\_

DATE OCT 26 1987  
 PAGE 16 of \_\_\_\_\_



**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		COMMENTS
		LENGTH	%	LENGTH	%		CATEGORY	NO.			DEPTH	ANGLE	NO.	FREQ.	NO.	FREQ.	
187		5.4		3.1													
192		5.1		3.6													
197		5.3		5.0													
202		4.9		4.6													
207		5.0		4.4													
212		5.0		4.2													
217		5.2		4.8													
222		5.0		4.8													
227		5.0		4.7													
232		5.1		4.8													
237		5.3		3.6													
242		4.9		4.2													
247		5.0		5.0													
252		5.0		4.8													
257		5.2		5.0													
262		4.6		4.2													
267		5.2		4.8													
272		5.3		5.0													
277		5.3		4.4													
282		5.0		5.0													
287		5.1		4.6													
292		5.0		4.3													
297		5.3		3.1													
302		4.7		4.7													
307		5.0		2.7													
312		5.0		4.0													
317		5.3		3.3													
322		5.0		2.2													
327		5.2		4.2													

→ EOH

Fig. 1. Typical rock mechanics core log.



**10**

DIAMOND DRILL CORE LOG

Date: \_\_\_\_\_

Hole Number: 87V-10

Reference Fabric Orientation Diagram:

Project: 1987 Vangorda drilling

Location: Vangorda deposit

Claim: \_\_\_\_\_

Terr. Plane Co-ords.: 6903368.82 N

593976.08 E

Grid Co-ords: 03E / - 0.5

Elevation: 1130.40

All symmetry determinations looking

Total Depth: 342 feet (104.2m)

NW with 52 dipping

Inclination: -90° (vertical)

SW with dip azimuth 220°

Purpose: ore reserve definition + metallurgical samples

Reason hole Terminated: drilled through ore into phyllite

Logged by: GAS

Date(s) Logged: Nov 6-13 / 1987

Drilling Contractor: ARCTIC DIAMOND DRILLING

Hole Cemented: No Steel down Hole: No

Size	CORE From	To	Collar Cased and Capped: <u>No</u>
<u>NW</u>	<u>0</u>	<u>60</u>	
<u>NQ</u>	<u>60</u>	<u>342</u>	

Assay Lab: MINE

Certificate No's: \_\_\_\_\_

Started: OCT 21/87 Completed: OCT 23/87

CURRAGH RESOURCES INC.

DDH 8.7.V.-1.0  
           2                              8

Diamond Drill Core Log    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	8.7.V.-1.0	11130.4	903368.8	593976.1		52

Code	Drillhole	Depth	Zenith Angle	True Azimuth	Comments
I	2                8 10	14 22	26 28	32 34	56
R	8.7.V.-1.0	100	180.0	0.0	AT COLLAR
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 87V-10

2

8

## CURRAGH RESOURCES INC.

## Lithologic Log

Page 3 of

Date: 6 Nov 87 Logged By: GJ

Fect

Code	From				To				Recov.				No.				Unit	Description
	10	14	16	20	22	24	26	28	30	34	35	1	2	3	4			
L	00			600										1	#	CASING no recovery at all		
L	600			620										2	#	Region rounded hornblende porphyry and metabasite, probably overburden clasts		
L	620			1046										3	4A4	hard to moderately hard dark grey/offwhite mottled to banded CS. foliated carbonaceous quartzite. non magnetic non calcareous - S <sub>2</sub> surfaces are black. Rock is fissile and fairly phyllitic for 4A (but black!) quartz sulphide bands are thin and poor in sulphides - overall S = ~5-10% with sphal => py ranging to pyrite & sphal at EOT and high end of tot S = at end also. S + Pb + Zn 6-8% Core is very broken 62 to 67 with 2' recvy mod. broken 67 to 76.5 with 8' recvy v. broken 76.5 - 80 with some rubble & 2.5' recvd mod broken 80 - 92 rubble 92 - 97 mismatch 1' recvd, mod broken 97 - EOT recvy OK core not bad for this rock type as splits readily on foliation no faults of importance 3" pyrite band near EOT		

Code	From		To		Recov.		No.		Unit		Description
	10	14	16	20	22	24	26	28	30	34	
	1046	1090						4	4L6		→ 3G48 alternating mud soft and hard light olive green/buff non calc chl micc gtz phyllite - S <sub>2</sub> surfaces are silvery grey green. Contains gte lenses between chl micc folia but not extremely well banded. A few thin gte veins along S <sub>2</sub> assoc with sphalerite Core is very broken and incipiently gony especially 107 and EOI lower contact sharp and parallel S <sub>2</sub> Unit appears to grade into overlying unit over few inches where carbon and gte banding increase No obvious major faults may be one foot of core loss
	1090	1124						5	4A0		#4 (4L6) dk. medium grey hard pyritic carbonaceous gtzite - well developed gte py banding poor in sphul - approx 15-20% tot S = mostly py but local spherical 4L6 exactly as above 4" at 112' Core well broken recovery probably ok - no obvious faults
	1124	1152						6	4E48		# # 6 fine grained brassy yellow and brown poorly banded massive pyritic sulphide - contains patches and thin bands of cerite and possibly dolomite Looks to approach 4G locally. Hard, contains minor mt as fine porphy and dissemin thin bands. Not also assoc with course banded <sup>white</sup> carbonate clasts - concentration of gte carbonate at both ends core intact recvy ok.

Code	From		To		Recov.		No.		Unit		Description
	10	14	16	20	22	24	26	28	30	34	
	11	15	2	11	21	0			17	4L11R14	6minor (4614) (1009) 40:30:30 Tubebanded sequence of light greenish-grey, moderately hard qtz, musc chl phyllite + qtz vein w pg + sph along fractures - mostly foliiform + brass, yellow → brown banded hal py qtzite. Unit is non calcareous light musc phyllite interbanded w pyritic + very sph s. All units are transitional to each other. qtz vein dominant in upper 1 foot, remainder siliceous phyllite w pg + sph interbands. Minor Po unit near end. Top 2' very broken w incipient gouge in phyllite. Remainder of unit is moderately → strongly broken Recry is Perfect. Unit appears to be an interbanding of overlying + underlying unit + shows some injection textures especially involving the Sph + Po rich bands. Unclear if there is a major fault, but possibility of fault at 117'.
	11	21	0	11	24	0			18	4L11R16	(4L6) 50150 Moderately hard varying to moderately soft pale greenish green qtz, musc, chl, py phyllite, PS <sub>2</sub> foliated. S <sub>2</sub> folia are greenish-green. Has a few % disseminated P <sub>3</sub> . Top half is siliceous, bottom half non siliceous. Core is moderately broken. No faults - recry 100%.
	11	24	0	12	25				19	110R19?	Hard greenish-cream heavy crackle brecciated qtz vein w pg, chl, in closely spaced anastomosing fractures. May contain feldspar. Some minerals appear to have cleavage - but do not flizz.

Code	From		To		Recov.		No.		Unit		Description
	10	14	16	20	22	24	26	28	30	34	
											Epidote also in fractures. Minor Po in small veins. Not a normal qtz vein. Maybe an altered igneous rock
	11218	5	11417	5			1104	11214			6 minor → 4D Sericitic locally. Sequence of very thinly interbanded soft pale greyish-green, noncalcaneous phyllite + qtz, ps, spl <sup>tbl</sup> S <sup>=</sup> bands. S <sup>=</sup> bearing bands generally 2cm or less thick. Unit contains v minor Po mass <sup>-</sup> throughout. S <sup>=</sup> bands generally coarser to form a sericite sph, chl qtzite. Unit contains about 5% total S <sup>=</sup> . Py about 2x sph. Grade is variable. Most base metals between 133 + 137. Which is 6% combined Pb+Zn. 143.5 → 145 is 4-6% Pb+Zn. 145-150 is soft, barren phyllite. This interval very low in Pb+Zn. Unit moderately broken. Local rubble at ends of runs. Recy 100%. No faults seen
	11417	5	11615	3			1111	4161418#			\$ → 4E48\$ → (4H491) 85:15 Very heterogeneous section dominantly consisting of a hard, brass yellow → brownish grey fine grained locally thinly banded, generally ba massive S <sup>=</sup> containing mass <sup>-</sup> mag locally in bands + mass <sup>-</sup> carb rhombs in mass <sup>-</sup> bands + disrupted bands. Carb a comb of calcite & dol also occurs in mtr of Ba S <sup>=</sup> . 158.5 → 160.5 & 162.5 - 163 - massive Po associated w vein qtz w blocky texture of qtz clasts floating in Po. Minor Cpy in fractures of qtz. Core is intact recovery 100% total S <sup>=</sup> about 85% Remainder Ba & carb. Minor Mag. Est Pb+Zn 12-14%. Unit has minor rust on cut

Code	From		To		Recov.		No.		Unit		Description
	10	14 16	20 22	24 26	28 30	34 35					
											surface of the core which may be rubbed off.
	116153	117105			112	141E1811					@?
											Hard, fine grained, brassy yellow, homogeneous, highly magnetic, massive py s <sup>+</sup> . Unit contains disseminations & banded bands of black mag & isolated patches of qtz &/or ferro carbonate. Most base metal associated with qtz patches & clasts, not massive py matrix. Core intact Recov perfect. Total s <sup>+</sup> 85% dens py 3-5% Mag est Pb+Zn 6%. Unit also has minor rust on cut surface - may be wiped off
	117105	118137			113	41614181					±# (5C\$) 90:10
											Hard, fine grained, light brownish-grey → brassy yellow massive Ba s <sup>+</sup> . Locally strongly magnetic. Locally highly calcareous, although overall may moderately → weakly calcareous. From 172.8 → 173.4 contains dark green & white chl, dol w brecciated to micritically brecciated texture. Appears to be a metabasite band floating clast. Unit also has local surface rust on cut surface esp in py bands. Recov 100%. Est Pb+Zn 14%. Unusually calcareous for Ba massive s <sup>+</sup> . Core intact no faults.
	118137	11912			114	141E1011					→ (4J01) 60:40 mod oxidized
											Hard fine grained, brassy yellow → dirty dark brassy yellow massive py s <sup>+</sup> locally w white banded bands of qtz & carb py commonly contains calcite in matrix. Top 1' of unit is porous → sandy. Carb/qtz banding better developed in lower 3'

Code	From	To	Recov.	No.	Unit	Description
1	10	14 16	20 22 24	26 28	30 34 35	
						Total S <sup>=</sup> 80% mostly Py. Est Pb+Zn 4% or less. Only local Sph. <sup>in bands</sup> Unit non magnetic. Core is moderately broken → intact. Locally slightly porous + vesgy in addition to top 1' already mentioned. 3/4' lost in unit, probably in upper part of unit
	11912	11918 <sup>0</sup>		1115	14164# 8	→ (4E#48) 40:60 Medium purplish brownish grey → brassy yellow fine grained massive Py S <sup>=</sup> w interbands of Ba S <sup>=</sup> . Locally highly magnetic due to hematite bands & porphy of black mag. Ba sections are commonly highly calcareous, as are locally more pyritic sections. Core intact to 197. / 197 → 198 core is minor rubble. Total S <sup>=</sup> 80% Ba largely above 194. 194 - 197 medium grade Ba with Py bands. 197 - 198 high grade baritic. Est Pb+Zn 10 → 12% Unit contains minor rust on cut surface. No sign of in situ oxidation.
	11918 <sup>0</sup>	12115 <sup>5</sup>		1116	14164# 8	Hard → moderately hard brownish → greyish yellow, fine grained Baritic massive S <sup>=</sup> . Moderately → strongly calcareous throughout. Carb occurs as fine dross in mix w S <sup>=</sup> rather than as dross chombs or dusts. Unit is locally strongly magnetic due to black mag porphy & bands. Core commonly has rust on cut surface → post drilling phenomenon. Est total S <sup>=</sup> 80% remainder carb & Ba. Est Pb+Zn 12%. Unit is intact, good recov, No faults.

Code	From		To		Recov.		No.		Unit		Description
	10	14	16	20	22	24	26	28	30	34	
	121	15	5	1213	18	0		117	14K14	#19	Brassy yellow, light grey → white, irregularly banded fine grained highly calcareous pyritic, massive → semi-massive S <sup>=</sup> locally w thin sph rich bands. Appears to be dominantly non magnetic. Local coarse P <sub>3</sub> perhaps a local P <sub>2</sub> flashy Cpy associated w qtz in fractures. Total S <sup>=</sup> is 70% overwhelmingly P <sub>3</sub> . Texturally the rock is irregularly banded with <sup>coarsely</sup> beaded/boudinaged qtz + calcite bands. CC also occurs as fine dross in pyritic intx. Sph bands appear to be dominantly below 231 w minor dross sph above. Texturally this rock resembles underlying pyritic grites, however it is very carbonate rich. Unusually Cpy rich 235 → 237. Core mostly intact w good carry. Rubble zone associated with minor fracture at top of unit. No significant fault. Est PbZn 4-6% to 231 + 8% to EOI. Local rust on cut surface.
	1213	18	0	1214	17	5		1118	14E110	(5C#) 95:5	Dark brassy yellow, hard, fine grained, pyritic semi-massive P <sub>3</sub> S <sup>=</sup> . Nonmagnetic, noncalcareous. Total S <sup>=</sup> 80% almost exclusively P <sub>3</sub> . Texturally consists of fine P <sub>3</sub> w irregular fine patches/bands of qtz transitional to beaded bands of qtz. Homogeneous w varying thickness in banding w varying qtz content. At 240.7 2" of chl, CC soft green + white striped phyllite. At 242 4" of same, at 243 → 243.5 same. Core is intact w minor broken near 244 due to steep fracture. No faults

CURRAGH RESOURCES INC.  
Lithologic Log

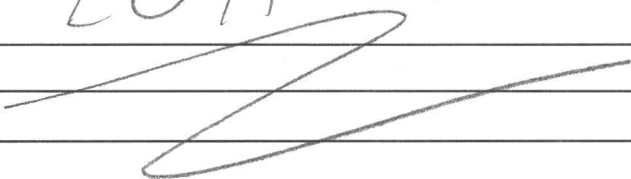
Code	From				To				Recov.				No.				Unit	Description
	10	14	16	20	22	24	26	28	30	34	35	10	14	16	20			
	1247	5	1271	80										119	141E11	<p>OT8 → HC3 + 9 minor ± 4 minor (4E48) 95:5 slightly oxidized</p> <p>Hard, brassy yellow + light grey banded semi-massive py S = 272<sup>±</sup> 273.5</p> <p>Texturally similar to previous unit, but more Qtzose banding.</p> <p>Local Flothy Cps in fractures in Qtz. Local Sph banding particularly below 268'. Core is intact. Recry 100%. There is a steep fracture from 272.5 → 273.5 at ≈ 10° to core axis. There is a brownish oxidation on fracture surface. Unit is noncalcareous + nonmagnetic except for last foot and from 261 → 263.</p> <p>261 → 263 local Sph bands with coarse mag porphs.</p> <p>total S = 60% mostly Py. Est PtZn C3 with local higher grade intervals around 261 → 264 + 277 → 278 at 8% + 6% respectively.</p>		
	1271	80	1281	15										120	141L1617	<p>Moderately soft, pale greyish-green non calcareous chl, musc phyllite in irregular Qtz lenses along the foliation. Qtz has plg, chl + Po associated with it. Minor folia form full Qtz in py + sph in fractures at top of unit. Core moderately broken → intact. Recry good, no faults. Total S = 3% mainly Po.</p> <p>Grade is approaching O. 1 minor garnet + chlorite band</p>		
	1281	15	1286	15										121	41D141813	<p>9 minor ± 1 minor chlorite</p> <p>Hard brownish brassy yellow + pale greyish green, irregularly banded chlorite very pyritic Qtzite. It has greyish-green Sz folia developed locally. Qtz has a definite green tinge due to chl. Locally is calcareous due to fine</p>		

Code	From	To	Recov.	No.	Unit	Description
1	10	14 16	20 22 24	26 28	30 34 35	
						cc in irregular bands. locally magnetic due to black mag as desseminations in banded bands. Sph + Gal bands are distributed throughout the unit → generally < 2" thick. total S = 50% P <sub>2</sub> >> Sph + Gal. Mag few % at most. Minor Po associated with fractures in qtzose sections. This unit and underlying unit appear to be transitional between rx above + rx below. Core is intact, recov 100%; No faults, no oxidation. Est Grade 10% Pb+Zn.
	121816	5 121916	7	1212	141C1318	9 minor 7 minor → (4C79) chlorite 50:50 Essentially identical to previous unit but less grade. In lower 1/2, more qtz+chl banding and also is Po bearing. From TOI = 292: 60% total S = w a few % Mag + minor Po + very minor Cpy   292 → EOT total S = 30% S = decreasing down section. S = mainly P <sub>2</sub> with ↑ Po down section. Minor mag + very minor Cpy. Core is intact recov 100% - NO FAULTS. Est Pb+Zn 3-5%.
	121916	7 131412	0	1213	14161617	2 moderately soft, pale - medium greyish green, chl, musc phyllite. Noncalcareous. Generally P <sub>2</sub> foliated locally CS <sub>2</sub> . S <sub>2</sub> folia are medium greyish green with shiny lustre. Unit characteristically contains qtz, po ± py + chl bands / stringers which are particularly abundant from 318 → 326 which is harder + more siliceous than remainder of the unit. Where S <sub>2</sub> banded local CS <sub>2</sub> developed. Unit commonly has folia formed

DDH 87.V-10  
2 8

CURRAGH RESOURCES INC.  
 Lithologic Log

Date: Nov 11/82 Logged By: G.J

Code	From				To				Recov.				No.				Unit				Description		
	10	14	16	20	22	24	26	28	30	34	35	10	14	16	20	22	24	26	28	30		34	35
																							bull gtz veins // to S <sub>2</sub> . Total S <sup>=</sup> TOE → 318 3-5%
																							P <sub>0</sub> subequal to P <sub>y</sub> . 318 → 326 15% S <sup>=</sup> down P <sub>0</sub> lesser P <sub>y</sub> .
																							326 → EOH 3-5% S <sup>=</sup> down P <sub>0</sub> . Core is intact recky GOOD.
																							Est Pb+Zn very low
																							EOH 

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						
P	11620	11670	3106114	1	12.5	4A41	
P	11670	11720	3106115	1	13.7	4A41	
P	11720	11770	3106116	1	15.0	4A41	
P	11770	11813	3106117	1	14.9	4A41	
P	11813	11850	3106118	1	14.6	4A41	
P	11850	11900	3106119	1	15.9	4A41	
P	11900	11970	310620	1	14.7	4A41	
P	11970	111046	310621	1	17.5	4A41	
P	111046	111090	310622	1	14.1	4A61	→ 3648
P	111090	111124	310623	1	13.6	4A01	±4 (4A6)
P	111124	111152	310624	1	13.1	4E48	
P	111152	112110	310625	1	16.1	4K124	(4614)
P	112110	112140	310626	1	14.0	4K126	
P	112140	112185	310627	1	15.0	1101917	
P	112185	113130	310628	1	15.0	4K124	
P	113130	113181	310629	1	15.0	4K124	
P	113181	114131	310630	1	15.0	4K124	
P	114131	114175	310631	1	15.3	4K124	
P	114175	11521	310632	1	14.7	4E48	
P	11521	11568	310633	1	14.7	4G48	(4H49)
P	11568	11611	310634	1	14.7	4G48	(4H49)
P	11611	11653	310635	1	14.5	4H49	(4648)
P	11653	117105	310636	1	15.3	4E81	
P	117105	117151	310637	1	15.0	4G48	
P	117151	117195	310638	1	14.9	4G48	
P	117195	118137	310639	1	14.7	4G48	
P	118137	118188	310640	1	14.5	4E011	gross mod oxidized
P	118188	119120	310641	1	13.3	4E011	mod. oxidized
P	119120	119154	310642	1	13.5	4G48	
P	119154	119180	310643	1	13.0	4E48	
P	119180	120131	310644	1	14.9	4G48	
P	120131	120175	310645	1	14.6	4G48	
P	120175	121116	310646	1	14.7	4G48	
P	121116	121155	310647	1	14.5	4G48	
	121155	122102	310648	1	15.1	4K48	
	122102	122146	310649	1	15.0	4K48	

ASSAY LOG (SAMPLER'S COPY)

Date Nov 13/87 Sampled by \_\_\_\_\_

CODE	FROM	TO	SAMPLE	INTR.	REC (m)	UNIT	DESCRIPTION
I	10	14 16 20	22 26 28 30	32	34 36	40 42	
P	12124 6	121219 1	31016150	1	146	41K14#	
P	121219 1	121313 4	31016151	1	147	41K14#	
P	121313 4	121318 0	31016152	1	148	41K14#	
P	121318 0	121413 0	31016153	1	155	41E1101	
P	121413 0	121417 5	31016154	1	153	41E1101	
P	121417 5	121512 0	31016155	1	145	41E1101	
P	121512 0	121516 3	31016156	1	145	41E1101	
P	121516 3	121610 7	31016157	1	147	41E1101	
P	121610 7	121615 0	31016158	1	147	41E1101	
P	121615 0	121619 7	31961519	1	146	41E1101	
P	121619 7	12174 1	31016160	1	147	41E1101	<i>slightly oxidized</i>
P	12174 1	121718 0	31016161	1	149	41E1101	
P	121718 0	12181 5	31016162	1	136	41L167	
	12181 5	121816 5	31016163	1	155	41D141813	
	121816 5	12191 1	3196164	1	152	41C13181	
	12191 1	121916 7	3196165	1	157	41C13181	
							<i>EOH</i>

Code	From				To				Feature	SYM	S <sub>0</sub>		S <sub>1</sub>		S <sub>2</sub>		Description
	10	14	16	20	22	24	26	28			32	34	38	40	44		
S					21.3 710	0	CIS12					510	01910	712	21210	4A ribbon banding	
S					27.1 1819	0	CIS12					313	21710	716	21210	4A ribbon banding	
S					33.8 11111	0	PIS12							718	21210	4A ribbon banding	
S					39.9 111311	0	PIS12							610	21210	pervasive micaceous fltn	
S					44.2 111415	0	PIS12							612	21210	pervasive micaceous fltn.	
S					52.4 111712	0	PIS12							614	21210	compositional banding in basites S <sup>=</sup>	
S					56.7 111816	0	PIS12							513	21210	compositional banding in pyritic S <sup>=</sup>	
S					64.0 121110	0	PIS12							617	21210	banding in pyritic S <sup>=</sup>	
S					69.2 121217	0	PIS12							610	21210	banding in pyritic S <sup>=</sup>	
S					74.7 121415	0	PIS12							617	21210	banding in pyritic S <sup>=</sup>	
S					81.1 121616	0	PIS12							818	21210	pyritic banding in 4EC	
S					86.0 121812	0	PIS12							617	21210	pyritic bands in 4EC	
S					92.4 131013	0	PIS12							712	21210	PS2 → CS2 micaceous fltn in phyllite	
S					97.4 131119	5	PIS12S					510	01010	813	21210	PS2 → CS2 micaceous fltn in phyllite	
S					104.2 131412	0	PIS12							716	21210	micaceous fltn in phyllite	
																EOH	

Fault Log

Date: Feb 3/88 Logged By: KCP

Code	FROM		TO (At)		Feature	REG	UPPER Dip Direct		INTERNAL Dip Direct.		LOWER Dip Direct		Description
	10	14	16	20			22	24	26	28	32	34	
F	101	1610	0	1NIP	0								Triconed - no recovery
F	160	0	1620	IP									overburden clasts - poor recovery
F	1620	1670	3IBIP	4									very broken w/ 40% recovery
F	1670	1765	12IB	8									mod broken - 84% recovery
F	1765	1810	0	3IBIR	7								very broken w/ some rubble - 71% recovery
F	1810	0	1920	12IB									mod. broken
F	1920	1970	0	1RM	1								rubby - mismatch - 14% recovered
F	1970	1104	6	12IB									mod. broken - recovery OK
F	1104	6	1109	0	3IB	7							very broken - 77% recovery
F	1104	6	1109	0	1IG								incipiently ganguey
F	1109	0	1112	4	12IB								mod broken - recovery OK
F	1115	2	1117	2	3IBIG								very broken w/ incipient gangue
F	1117	2	1121	0	12IB								mod to strongly broken
F	1115	2	1116	2	12								gtz vein dominant
F			1117	0	1F								possible fault?
F	1121	0	1124	0	12IB								mod. broken
F	1124	0	1128	5	9IX								heavily crackle bxiated gtz vein
F	1128	5	1147	5	12IB								mod. broken
F	1158	5	11610	5	1D								po ductile bxa of gtz clasts
F	1162	5	11613	0	1D								gtz clasts floating in po matrix
F	1172	8	11713	4	1IXD								bxiated to incipiently bxiated texture in metabasite clast in 4G
F	11813	7	11814	7	13IB								porous to sandy
F	11813	7	11920	12IB	9								mod broken to intact - 90% recovery 3/4' lost in upper part
F	11917	0	11918	0	11R								minor rubble
F			1214	4	0	11IB							minor broken related to steep fractures
F	1217	2	5	1217	3	5	11J		10	010	10		steep fracture 10° core axis
	1217	8	0	1218	1	5	11B						core mod broken to intact - recovery good

PROJECT \_\_\_\_\_ DRILLHOLE NO. B7V-10 COORDINATES: N \_\_\_\_\_ DATE Nov 13 1987  
 LOCATION \_\_\_\_\_ HOLE SIZE NQ E \_\_\_\_\_ PAGE    of     
 LOGGER LCP INCLINATION -90° 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.		
60		0		0														<i>Falconed</i>
62		0.6		0														
67		2.4		0														
72		3.7		0.4														
77		4.0		0														
80		2.5		0														
85		5.5		0														
90		5.5		1.2														
92		1.5		0														
97		1.5		0														<i>Mislatch</i>
102		4.6		0.9														
107		4.4		0.9														
112		4.1		0														
117		5.2		1.8														
122		5.1		1.7														
125		2.7		0														
130		5.4		2.8														
132		2.2		0														
137		4.6		0.4														
142		4.5		0														
147		5.3		1.8														
152		4.8		3.4														
157		5.1		4.3														
162		5.2		3.4														
167		5.3		3.8														
172		4.9		4.4														
177		5.2		3.7														

Fig. 1. Typical rock mechanics core log.

PROJECT \_\_\_\_\_ DRILLHOLE NO. 87V-10 COORDINATES: N \_\_\_\_\_ DATE Nov 13 1987  
 LOCATION \_\_\_\_\_ HOLE SIZE NA E \_\_\_\_\_ PAGE    of     
 LOGGER LCP INCLINATION -90° 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.	
182		5.1		3.2													
187		4.4		2.1													
192		4.7		1.7													
197		5.2		4.2													
198		1.3		0													
202		3.5		2.6													
205.5		3.3		2.5													
210.5		5.3		3.8													
212		1.5		1.1													
217		5.3		3.9													
222		5.1		4.4													
227		5.2		4.3													
232		5.3		4.7													
237		5.2		5.2													
242		5.2		3.0													
247		5.4		3.4													
252		5.0		3.5													
257		5.1		4.8													
262		5.0		4.6													
267		5.2		4.7													
272		4.9		4.2													
277		5.1		3.2													
282		5.1		1.9													
287		5.4		4.1													
292		4.8		4.4													
297		5.2		5.2													
302		4.9		1.8													

Fig. 1. Typical rock mechanics core log.

PROJECT \_\_\_\_\_ DRILLHOLE NO. 87U-10 COORDINATES: N \_\_\_\_\_ DATE Nov 13 1987  
 LOCATION \_\_\_\_\_ HOLE SIZE NQ E \_\_\_\_\_ PAGE    of     
 LOGGER \_\_\_\_\_ INCLINATION -90° ELEVATION \_\_\_\_\_



**PITEAU & ASSOCIATES**  
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 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		COMMENTS	
		LENGTH	%	LENGTH	%		CATEGORY	NO.			DEPTH	ANGLE	NO.	FREQ.	NO.	FREQ.		
307		5.1		2.7														
312		5.0		3.8														
317		5.5		2.6														
322		5.0		3.7														
327		5.3		2.1														
332		4.8		2.4														
337		5.2		2.3														
342		5.1		3.1														

Fig. 1. Typical rock mechanics core log.

EOH

87V-11

DIAMOND DRILL CORE LOG

Date: \_\_\_\_\_

Hole Number: 87V-11

Reference Fabric Orientation Diagram:

Project: 1987 Vancouver drilling

Location: Vancouver deposit

Claim: \_\_\_\_\_

Terr. Plane Co-ords.: 6903408.59 N

593981.96 E

Grid Co-ords: 02E / + 0.5

Elevation: 1135.40

All symmetry determinations looking

Total Depth: 312 feet (95.1 m)

NW with 52 dipping

Inclination: -90° (vertical)

SW with dip azimuth 220.

Purpose: reserve definition + metallurgical samples

Reason hole Terminated: drilled through ore

Logged by: CVR + MCP

Date(s) Logged: OCT 30-31 / 1987

Drilling Contractor: ARCTIC DIAMOND DRILLING

Hole Cemented: No Steel down Hole: 20' NW casing

Size	CORE From	To	Collar Cased and Capped:
<u>NW</u>	<u>0</u>	<u>22</u>	<u>No</u>
<u>NQ</u>	<u>22</u>	<u>312</u>	

Assay Lab: MINE

Certificate No's: \_\_\_\_\_

Started: OCT 23/87 Completed: OCT 24/87

DDH 87V-111  
          2                        8

Diamond Drill Core Log

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	87V-111	1113.5	4910	3408	16	59	39	82	10		5	2

Code	Drillhole	Depth		Zenith Angle	True Azimuth	Comments				
I	2	8	10	14	22	26	28	32	34	56
R	87V-111		10	0	180	0		0		AT COLLAR

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

Code	From		To		Recov.			No.			Unit	Description
	10	14	16	20	22	24	26	28	30	34		
L	100		1212	0					11		#1	TRICONED - No RECOVERY  very oxidized
L	1212	0	1714	2					12	1411016	7	"Stringered" [3647 "Stringered"] (3B43) TRACE Soft, noncalcareous, extremely weathered and oxidized phyllite. Orange-brown weathering colour tends to mask original colours of creamy white to very pale green to light grey. Unit PS2 foliated. Commonly weathers to orange-brown mud residue on fracture surfaces - also on S2 folia. Contains very dark green chlorite stringers & laminae; locally these define micro-lithons. Presumed to contain go originally because of typical alteration association. S2 folia silvery grey-cream w/ pale green patches. Contains minor pegmatites qtz in veins up to 2cm across dominantly parallel S2. At 94.8'-95.0' moderately soft, slightly calcareous, olive green & white striped, chloritic phyllite. Qtz-calcite occurs as thick laminae predominantly parallel S2. At 70.5'-76.5' well fractured pegmatite qtz w/ minor chlorite infilling. Orange oxidation also along fractures. TOI - 37.6 core med. broken w/ short rubbly intr @ 26.5; recovery good / 37.6-42.0 very broken & rubbly; recov OK / 42.0-47.0 med. broken to rubbly; rec OK / 47.0-EOI med. broken; recov OK /
L	1714	2	1812	0					13	1316191		→ (3E0) med. oxidized 50:50 Soft, dark grey to black, PS2 foliated, noncalcareous, carbonaceous phyllite. Carbon content increases as go down drill hole. S2 surfaces dull steely grey @ TOI to dark shiny black @ EOI. Broken surfaces are weathered to light brown-orange. Cut surface weathered to a light brown-yellow along S2 cleavage surfaces. Core very broken to rubbly / esp. rubbly between 77-82. Rec OK TOI - 77 / 77-82 lost 3 1/2' core - no mud gouge.

CURRAGH RESOURCES INC.  
Lithologic Log

Code	From	To	Recov.	No.	Unit	Description
	10 14 16 20 22 24 26 28 30 34 35					
L	1812 0	1815 0		14	141A141	slightly weathered mod. oxidized Dk grey to black, hard, moderately weathered, ribbon banded, carbonaceous gtaik. S2 surfaces black leave black carbonaceous residues on fingers. Noncalcareous Py-gt bands contains fine disseminated brown sphal - Avg band thickness 4-5 mm. Abundant, highly dipping gt-filled fractures weathering evident as pitted cut surface and has some yellow-orange surface coatings on S2 surfaces locally. Dominantly P52 foliated Core very broken / recov. OK (Pb+Zn) = 7% Py content 10% w/ sphal < py
L	1815 0	11212 0		15	141A101	slightly weathered light grey to black striped, hard, noncalcareous, CS2-foliated, ribbon-banded, carbonaceous gtaik. S2 surfaces dull black and strongly mark fingers. About 70% by volume gt-py bands and 20% py-gt bands w/ remainder being med dk grey carbonaceous bands. Unit slightly weathered as evident from yellow-orange oxidations coatings on fractures and S2 surfaces. Locally have steeply dipping wiggly-gt-calcite (?) fractures / veins up to 1 cm across. Micro-lithon textures evident in gt-py bands & laminae. Py content 10% Unit locally slightly porous. TOI-102.5 mod. broken w/ rubble sections / 102.5-113.6 mod. broken / 113.6-EOI very broken and rubble // TOI-112 rec OK / 112-117 lost 1.8' core / 117-122 lost 1.5' core rubble zone @ 114-115.2 w/ significant gouge probably accounts for part of core loss. Est grade < 4% (Pb+Zn)
L	11212 0	11214 3		16	131C147	\$ "Legend Rock" Soft, dull olive green & light grey striped, dolomitic, highly altered muscovite-chlorite phyllite. Thin grey streaks in a light yellowish green matrix. P52 foliated Both contacts sharp & parallel S2 S2 surface dull olive green w/

Code	From		To		Recov.		No.		Unit		Description
	10	14	16	20	22	24	26	28	30	34	
											partly grey Unit mod. broken w/ good recovery.
L	11214	3	11319	8			17		141A101	± 4 (4C)	95:05 slightly oxidized
											Hard, noncalcareous, thickly laminated to thickly banded, ribbon-banded, carbonaceous shale. Qtz-py bands range from 1mm - 1cm in thickness and predominantly parallel S2. Dominantly P <sub>S2</sub> foliated w/ some local C <sub>S2</sub> micro-lithon development. Top 1' is light grey, hard, P <sub>S2</sub> -foliated, thickly laminated shale. S2 surfaces are light slightly silvery grey. Forms bleached margins of 4A (=4C) adjacent to metabasite unit above. S2 defined by py-sphal rich laminae. 4A py content < 10%. Est grade 4-6% (Pb+Zn) Sphal as tiny discrete grains in pt-py bands. Some of broken S2 surfaces have minor whitish tan yellow oxidations. TOI - 124.8 very rubblely / 124.8-127.5 very broken / 127.5-130 very broken & rubblely / 130-135 slightly broken / 135-EOI mod. to very broken. Recov OK
L	11319	8	11412	5			18		14D1414	± 5 ± 3 minor	slightly oxidized
											Very hard, noncalcareous, light-reddish brown, extremely high grade shale. locally contains thin carbonaceous folia. Near bottom of interval has much py which is locally slightly porous. Sphal bands range up to 10cm thick and contain dissemin grey qtz & minor fine py. Qtz clasts about 2mm across, some are angular / forms incipient micro breccia texture. Py content 15-20%. Est grade 18-20% (Pb+Zn) - extremely sphal rich sphal ≈ py. Core intact w/ good recovery

CURRAGH RESOURCES INC.  
Lithologic Log

Date: OCT 31/87 Logged By: CVR/LCP

Code	From		To		Recov.		No.		Unit		Description
	10	14	16	20	22	24	26	28	30	34	
L	1412	5	1515	1			19		1412-161		±1 ± bio (4C7 X3B6 X4H4 X10Q) 65:20:5:5:5 An extremely heterogeneous interval. Background (i.e. dominant) unit is mod soft to locally hard, pale olive green & grey striped, noncalcareous phyllitic. P52 foliated. SZ surfaces very pale silvery grey green. Bio developed possibly as streaks along SZ. Fine-grained py in finely lenticular Qtz-rich laminae & local aggregates of smaller grains. One interval of green & white striped, noncalcareous chloritic phyllite @ 147-148. Texturally this interval looks like highly foliated metabasite (3B6). Scattered throughout interval are short sections of grey, very hard, quartzite. Well featured w/ py-py-gal-sphal (micro) infilling the fractures. Contacts w/ 4L are sharp and parallel SZ. Finally have some intervals of fine-grained, fossiliferous 4H4 bands. At EOT py w/ lesser gal-py-sphal forms fine-grained matrix for bxa w/ numerous Qtz clasts. Overall grade low because mainly phyllitic. 4H4 intervals have grades 7-8% (Pb+Zn). Few 4C intervals have estimated 3-4% (Pb+Zn). TOT-146 extremely barren & rubble (3.4' core) / 146-EOT mod barren w/ OK recovery.
L	1515	1	1611	9			110		141E1810		\$ micro (4G4B) (3C4) 60:40: TACE slightly oxidized Hard, fine-grained, brassy yellow massive py. Contains numerous Qtz-colonite clasts and bands up to 2cm across. Magnetic as thin feathery streaks and blebs up to 1.5cm across. Micro sphal occurs sparsely, dissem. in py. and in 1 thin band @ 158'. Estimated grade for 4E about 4%. Unit locally porous along weathered colonite-Qtz veins. Interbedded w/ 4E is high-grade, finely banded, light brown basic S <sup>2</sup> . Abundant light brown sphalerite, lenticular in basic-rich bands. Py content 15%. Est. grade 20% (Pb+Zn). Magnetic finely dissem in bands ranging up to 2cm across. Core slightly barren / recov. good. One small angular clast of white and green striped, altered, noncalcareous metabasite.

Code	From		To		Recov.	No.	Unit	Description		
	10	14	16	20					22	24
L	11611	19	11710	2		111	141G141	<p>\$ minor</p> <p>Thickly laminated to thinly banded, extremely high grade basitic S<sup>2</sup> P<sub>52</sub> foliated, hard, light grey color. Py finely disseminated throughout matrix &amp; forms thin diffuse bands. Contains variably sized qtz-dolomite clots up to 2cm across. Silty grey galena w/ finely disseminated py in thin laminae. At 164.7' red sphal vein about 0.5cm across. Py content 25%. Est grade 20% (Pb+Zn). Core slightly biased to intact - recovery good.</p>		
L	11710	2	11814	5		112	141G141	<p>± #</p> <p>slightly oxidized?</p> <p>Similar to last unit # (161.9-170.2) except more yellowish tinge because of higher py content. Py forms diffuse bands up to 10cm thick. Py bands contain disseminated bands-sphal-gal. Abundant reddish sphal in bands up to 10cm thick. Cu in intermittent laminae &amp; largely absent w/ more pyritic intervals. Steep ss-filled fractures which are locally weathered out. Py content 30-40%. Est grade 15-18% (Pb+Zn). Core slightly biased w/ good recovery.</p>		
L	11814	5	11912	0		113	141E1018	<p>± porous ± 4 (3B ± bio) (10G 9) (4D4) 65:20:10:5</p> <p>slightly oxidized?</p> <p>Major unit hard, locally porous, homogeneous, brassy yellow py. Abundant magnetite occurs in diffuse, poorly defined bedded laminae &amp; foliation clots up to 1cm across. Laminae parallel S<sub>2</sub>. Porous for bottom 1.5' and contains several small angular qtz clots (in some intervals); magnetite not as common; in bed get reddish brown sphal. Interbedded w/ 4E is bedded dull olive green &amp; grey, slightly dolomitic, thickly striped, hard soft chloritic phyllic. Numerous thin qtz-dolomite laminae parallel S<sub>2</sub>. Brown bio disseminated in intervals instead of green chloritic. S<sub>2</sub> surfaces light olive green. Lower margin of 3B is 3" band of reddish brown, hard, red pyritic qtzite (4D) w/ abundant red sphal.</p>		

Code	From	To	Recov.	No.	Unit	Description
	10 14 16 20 22 24 26 28 30 34 35					
						no thick laminae of massive py. Py also as fracture-fillings. 100 cm 25 cm thick interval @ 190'. Contains abundant fractures infilled w/ red sphal + massive py. Grade 6-7% (Pb+Zn) Core intact TOE-187/ 187-188.3 v. broken / 188.3-189.3 intact / 189.3-EOI very broken w/ local rubble zone @ 189.5 Recov OK
L	119120	<sup>60.4</sup> 119183		114	141614	±# (4E D porous) (100 9#) 92:05:03 slightly oxidized Hard, light brown-grey, thinly banded, red pyritic, basitic S= Contains intermittent calcareous bands Abundant honey-combed to light reddish brn sphal in thick bands w/ minor massive py At 192.5-(start) 30cm interval of brassy yellow, porous, locally weathered yellow homogeneous, massive py Below py is 15cm S= rich qtz-cc vein. Vein mottled aspect w/ abundant "flowing" py around white cc-qtz clasts Sphalting dk red sphal of minor dk green chlorite "flakes" Qtz vein locally gross due to weathered cc. Py content 40% Grade 16% (Pb+Zn) Core slightly broken to intact / recovery good
L	119183	<sup>61.2</sup> 121010		115	141E10B	±1 (100 chlorite) 100:TRACE Yellow, hard, locally siliceous, fine grained py. Poorly defined banding marked by increased dull grey qtz. Abundant magnetite as small specks & streaks throughout. Some streaks up to 1cm across. v minor red sphal in 1 3" thick interval @ 199.1. At 198.5 8cm-thick pyritic qtz vein Interstitial chlorite in vein. Vein has angular clasts of fine-grained chlorite-qtz. Core intact, recov. good Py content 90% Grade 2% (Pb+Zn)
L	121010	<sup>66.4</sup> 121180		116	141614	±8 (3C & [3B\$]) MINOR light greyish-tan, <sup>very</sup> thickly banded, red pyritic, basitic S= Banding defined by reddish-

Code	From		To		Recov.		No.		Unit		Description	
	10	14	16	20	22	24	26	28	30	34		35
											brn sphal & fine-grained py in bands up to 2cm across. Minor magnetite as localized dk gray streaks largely assoc w/ pyritic bands. Local steep fractures infilled w/ fine py. Py content 25% Grade 18-19% (Pb+Zn) At 202' 15cm band of mod. soft, splately dk green chlorite and gray pt-dolomite metabasite. Qtz-dolomite forms poorly defined laminae up to 1cm across - laminae are very disrupted. Contacts of metabasite sharp against S <sup>=</sup> . Core intact to slightly broken locally. Recovery good.	
L	121	180	121	159					117	110	12191	<p>BXA → (4L 6 1 2 Bio) (3C 5: 6) (4E4K) (30:30:30:10)</p> <p>TOI - 219.2 pegmatite white qtz veins bxa w/ disoriented light gray, fine-grained qtzite clasts. Clasts are angular. Abundant interstitial fine-grained yellow py in qtz vein. Contains thin steep fractures infilled by dk green chlorite. Upper contact diffuse into massive S<sup>=</sup> / lower contact sharp - not // S2.</p> <p>219.2 - 221.5 mod. hard to hard, light greyish green, CS2 &amp; PS2 foliated, musc-chlorite phyllite. Upper part against qtz veins silicified to same qtzite as in bxa. As go down DDH becomes softer &amp; more chloritic. Steep fine qtz-filled fractures w/ biotite halos. Biot. also dissem. in matrix. Locally qtz defines micro-lenses. Py as subhedral grains in thin stringers/bands. Difficult to define parent rock type - possibly pelite or possibly SD.</p> <p>222.7 - 225.4 Dk olive green &amp; gray striped, mod. soft, slightly dolomitic, chloritic phyllite. White stringers are pt-dolomite. Locally has heaped rock texture. In lower part of interval base irregular band of 4H4 ductile flow bxa 15cm thick. S2 folia dull olive green. 4H4 has 3C clast &amp; py + sphal porphs. Po also infilling thin fractures - dominantly in lower 1/2 of 3C.</p> <p>Background ore type making up rest of unit is HE4/8 banded S<sup>=</sup> w/ locally abundant magnetite. Magnetite esp. common near margins of metabasite.</p> <p>Core intact w/ good recovery.</p>

Code	From		To		Recov.	No.	Unit	Description		
	10	14	16	20					22	24
L	1212	159	1213	106		118	14E1184	7 minor Hand mottled yellow-gray, moderately siliceous, pyritic S <sup>2</sup> Banding irregular and disrupted giving it a mottled texture. Abundant magnetite in large irregular splotches and sheets up to 3-4 cm across. Magnetite occurs w/ dull gray qtz. Qtz also forms dull gray diffuse, disrupted bands. Minor py occurs as splatky veinlets and in assoc w/ qtz. Overall appearance of ductile flow breccia of oxides & qtz in py matrix. 3-4% (Pb+Zn). Py content 70%. Intact w/ good recovery.		
L	1213	106	1214	132		119	14G1418	# minor Very light tan gray, thinly banded, slightly calcareous, high grade hematitic S <sup>2</sup> . Banding defined by honey-colored sphal on scale < 1cm - 3 or 4 cm. Cc on thin "siltstone" laminae. Abundant magnetite in large blebs and thin bands up to 1cm thick. Est py content 25% 20% (Pb+Zn). Core intact w/ good recovery to slightly broken.		
L	1214	132	1215	100		120	14G1418	(3C36) 80:20 Similar to Unit #19 (230.6-243.2) except cc not present and magnetite is not as abundant. Within unit are large clasts and bands of well sorted dk olive green & gray striped chloritic phyllitic / metabasite. Clasts range from 4cm to 10cm across. Flts on clasts randomly oriented. Clasts are angular. At 244.5-246 have large metabasite interval which is well fractured w/ pegmatitic qtz-calcite in fractures. Margin of band irregular - probably 1 large clast S <sup>2</sup> flow around margins. Py content 25% Grade 15% (Pb+Zn). Core intact - slightly broken in metabasite. Recov good.		

Code	From				To				Recov.	No.	Unit	Description
	10	14	16	20	22	24	26	28				
L	121510	0	<u>79.2</u> 121519	7					1211	41D101	± 8	Extremely hard, poorly banded, noncalcareous, mod. pyritic, qtzite light grayish yellow. Py occurs as finely dissem grains in diffuse bands up to 4cm across. Minor dissem sphal locally assoc w/ pyritic bands. Magnetite occurs as fine specks & foliary sheets. Magnetite more abundant near top of interval. Py content 25-30% 6% (Pb+Zn). Core intact w/ good recovery. Mat grade in top 3' of interval / sphal tails off as go down DDH.
L	121519	7	<u>80.1</u> 121612	8					1212	131G1916	(100 98) 80:20	Dk grey, noncalcareous, P52-foliated, soft phyllitic. S2 folia are dark shungy grey. Contains py/marcasite(?), sphal in extremely thin disrupted qtz veins and stringers. Small grade 2-3% (Pb+Zn). Margins diffuse & grade into pegmatitic qtz-biotite veins. Veins well fractured w/ abundant chlorite-py-gal-sphal. Core intact w/ good recovery.
L	121612	8	<u>84.2</u> 121716	2					1213	41C1718	9 ± 8 minor	Bronze-grey, poorly banded, mod. pyritic, very hard qtzite. Abundant fine-grained po in diffuse thick bands up to 10cm across. Bands contain fine, dissem grey qtz & magnetite specks. Py also occurs in bands up to 15cm thick - coarse py in qtz w/ 50:50 ratio. Sporadic, splashy white pegmatitic qtz clasts 3-4 cm across. Splashy epq as fracture infillings in qtzite interval. Grade largely in top 1 1/2' & consists of red sphal in poorly defined bands ± 2mm thick. Near TOI large biotite clast/band 5cm across. Core intact / recovery good. Po content 20-30%. Py content 15% (grade 3-4% (Pb+Zn)).

Code	From		To		Recov.		No.		Unit		Description
	10	14	16	20	22	24	26	28	30	34	
L	121716	2	121811	6				1214	141C1017	89	Extremely hard, noncalcareous, yellowish-gray, poorly banded, pyritic + pyrrhotitic gneiss. Similar to last unit except py:po ratio 70:30. Po intimately assoc w/ py bands. Fine magnetite speck also in py bands. Overall py content 20-25% Grade 4% (Pb+Zn). Core slightly broken / recovery OK
L	121811	6	121913	4				1215	141K112	68 ± # ± 9 minor	[4C38 ± 3 ± # <sup>± 9 minor</sup> chlorite] slightly <sup>weakened</sup>
											Very hard to locally med. soft, mottled green & gray, generally noncalcareous, pyritic gneiss. Py forms diffuse bands of dissem. grains parallel S2 foln. Cc occurs as bands / clasts parallel S2. Magnetite occurs as tiny specks assoc w/ pyrite. Very minor sphalerite. Dull green chlorite in thin bands within gneiss matrix. Locally S2 folia are micaceous silvery cream to green. Minor spy infilling reworking fractures in these areas. Overall unit has appearance of highly silicified, slightly quartzized, very highly altered country rock (i.e. footwall) phyllite. Locally steep features weakened to a dull yellow green. Py content 35-40% Grade 2-3% (Pb+Zn). Intact w/ local med. broken. Recovery good
L	121913	4	131016	6				1216	141L112	7 ± 9 minor	(3B3 ± bio) 85:15
											Very hard, noncalcareous, light gray & bronze striped, highly altered & silicified phyllite cum gneiss. Diffuse, poorly developed banding defined by fine grained po + py parallel S2 and defining microlithons. Generally bands ± 1cm. although locally up to 15cm. S2 surfaces micaceous light silvery grey. Very minor sphalerite spy in fractures in gneiss. Intabanded w/ unit is dk olive green & white striped, calcareous, med. soft chloritic phyllite / metabasite. Locally has brown biotite in calcareous intervals. Assoc w/ pegmatite

etc-cc.

Code	From		To		Recov.		No.		Unit		Description
	10	14	16	20	22	24	26	28	30	34	
											Locally banding disrupted around larger cc clasts Abundant go in gtz bands in metabasite as fracture "fills" & large splatting - Estimated grade 2% (Pb+Zn) Est S= po > py 15% po & 8-9% go. At 295.2' small rubble zone of highly broken chloritic phyllite ① otherwise core intact w/ good recovery
L	131016	6	131112	0			1217		131614	17	6 (po, spy) ± 3 "stringered" (3B 3 ) 95:5 light grey w/ greenish tinge, med. soft, poorly banded massive - chloritic phyllite. S2 surfaces are dull greyish green w/ minor py specks Banding defined by thin chlorite laminae w/ assoc go parallel S2 and also defining microclastic Step fractures infilled w/ gtz - dk green chlorite - calcite. Very minor splatting spy infilling fractures. local occurrence of calcite in microclastic. Core slightly broken to intact w/ good recovery. Minor 3B at top of interval
											FOH

ASSAY LOG (SAMPLER'S COPY)

CODE	FROM	TO	SAMPLE	INTR.	REC (m)	UNIT	DESCRIPTION
I	10 14 16 20 22 26 28 30 32 34 36 40 42						
P	1 1812 0	1 1815 0	31021919		137	41A141	mod. oxidized
P	1 1815 0	1 1819 7	31031010		150	41A101	slightly oxidized
P	1 1819 7	1 1914 6	31031011		151	41A101	slightly oxidized
P	1 1914 6	1 1918 9	31031012		153	41A101	slightly oxidized
P	1 1918 9	1 11014 0	31031013		150	41A101	slightly oxidized
P	1 11014 0	1 11018 7	31031014		153	41A101	slightly oxidized
P	1 11018 7	1 11113 3	31031015		152	41A101	slightly oxidized
P	1 11113 3	1 11212 0	31031016		154	41A1014	slightly oxidized
P	1 11212 0	1 11214 3	31031017		127	31C41718	
P	1 11214 3	1 11217 5	31031018		150	41A101	slightly oxidized
P	1 11217 5	1 11311 6	31031019		146	41A101	slightly oxidized
P	1 11311 6	1 11315 4	31031110		146	41A101	slightly oxidized
P	1 11315 4	1 11319 8	31031111		147	41A101	slightly oxidized
P	1 11319 8	1 11412 5	31031112		126	41D14141	slightly oxidized
P	1 11412 5	1 11416 8	31031113		142	41A161	
P	1 11416 8	1 11511 9	31031114		158	41A1611	3C
P	1 11511 9	1 11515 1	31031115		150	41A161	
P	1 11515 1	1 11518 4	31031116		135	41E181814	slightly oxidized
P	1 11518 4	1 11611 9	31031117		138	41E181814	slightly oxidized
P	1 11611 9	1 11617 0	31031118		144	41G141	
P	1 11617 0	1 1170 2	31031119		132	41G141	
P	1 1170 2	1 11713 7	31031210		144	41G141	slightly oxidized?
P	1 11713 7	1 11717 6	31031211		143	41G1410	slightly oxidized?
P	1 11717 6	1 11811 0	31031212		139	41G141	slightly oxidized?
P	1 11811 0	1 11814 5	31031213		138	41G141	slightly oxidized?
P	1 11814 5	1 11817 8	31031214		135	41E10181	slightly oxidized?
P	1 11817 8	1 11912 0	31031215		145	31B14141	4E0 4DL slightly oxidized?
P	1 11912 0	1 11915 6	31031216		139	41G1410	slightly oxidized
P	1 11915 6	1 11918 3	31031217		127	41G141	
P	1 11918 3	1 121010 8	31031218		128	41E10181	
P	1 121010 8	1 121015 1	31031219		145	41G141	
P	1 121015 1	1 121019 5	31031310		146	41G141	
P	1 121019 5	1 121113 7	31031311		145	41G141	
P	1 121113 7	1 121118 6	31031312		145	41G141	
P	1 121118 6	1 121212 6	31031313		147	110121	(41A612)
P	1 121212 6	1 121215 9	31031314		133	31C14161	(4E468)



Code	From		To		Feature	SVE	S <sub>0</sub>		S <sub>1</sub>		S <sub>2</sub>		Description
	10	14	16	20			Dip	Direct.	Dip	Direct.	Dip	Direct	
S				10.4 3140	P512					45	220		micaceous pervasive fltn
S				15.8 1520	C512S			216	01010	53	220		microlithons are chlorite stringers
S				18.9 1620	C512			50	01810	55	220		microlithons chlorite stringers
													S <sub>2</sub> pervasive cluge
S				26.2 18160	C512			45	01810	65	220		micro-lithons in 4A
S				32.3 11060	C512			50	0170	65	220		micro-lithons in 4A
S				37.2 11220	C512			50	11010	65	220		micro-lithons in 4A
S				42.9 11390	P512					64	220		carbonaceous bands in 4A
S				51.8 11710	P512					68	220		compositional banding in 4G
S				55.5 11820	P512					69	220		" " " "
S				60.0 119170	P512					72	220		compos. banding in 4G
S				64.6 121120	P512					65	220		" " " "
S				73.2 121410	P512					74	220		compos. banding in 4G
S				78.3 121570	P512					74	220		qtz banding in 4C
S				84.4 121770	P512					80	220		qtz banding in 4C
S				88.7 1219110	P512					65	220		S= banding in 4C
S				91.4 131010	P512					78	220		S= banding in 4K1
				93.9 1310180	C512			210	01910	80	220		C52 approaching P52

Fault Log

Code	FROM		TO (At)		Feature	REG	UPPER Dip Direct		INTERNAL Dip Direct.		LOWER Dip Direct		Description
	10	14	16	20			22	24	26	28	32	34	
F	101	101	1220	1220	1NIP								Triconed - no recovery
F	1220	1220	1376	1376	12IB								mod brken - recovery good
F	1220	1220	1265	1265	1R								short rubbly interval
F	1376	1376	1420	1420	3IBIR								very brken and rubbly - recovery OK
F	1420	1420	1470	1470	2IBIR								mod. brken to rubbly - recovery OK
F	1470	1470	1742	1742	12IB								mod. brken - recovery OK
F	1742	1742	1770	1770	3IBIR								very brken to rubbly - recovery OK
F	1770	1770	1820	1820	13IR3								very rubbly - 30% recovery
F	1820	1820	1850	1850	13IB								very brken - recovery OK
F	1850	1850	11025	11025	2IBIR								mod brken w/ rubbly sections
F	11025	11025	11136	11136	12IB								mod. brken
F	11136	11136	11170	11170	3IBIR4								very brken & rubbly - 47% recovery
F	11170	11170	11220	11220	3IBIR7								very brken & rubbly - 70% recovery
F	11140	11140	11152	11152	13IR								rubbly zone w/ incipient gouge
F	11220	11220	11243	11243	12IB								mod. brken
F	11243	11243	11248	11248	13IR								very rubbly
F	11248	11248	11275	11275	13IB								very brken - recovery OK
F	11275	11275	11310	11310	3IBIR								very brken & rubbly - recovery OK
F	11310	11310	11350	11350	11IB								slightly brken - recovery OK
F	11350	11350	11398	11398	12IB								mod to very brken - recovery OK
F	11398	11398	11425	11425	11IX								Ductile bxa - microbxa incipient texture
F	11425	11425	11460	11460	3IBIR8								very brken & rubbly - 85% recovery
F	11460	11460	11551	11551	12IB								mod brken - recovery OK
F	11551	11551	11551	11551	11IX								po forms fine-grained matrix for bxa w/ numerous qtz clasts
F	11551	11551	11619	11619	11IB								slightly brken - recovery good
F	11619	11619	11710	11710	11IB								slightly brken to intact - recovery good
F	11710	11710	11845	11845	11IB								slightly brken - recovery good
F	11845	11845	11883	11883	13IB								very brken - recovery OK
F	11883	11883	11920	11920	13IB								very brken - recovery OK
F	11920	11920	11920	11920	11D								qtz clasts in S=
F	11920	11920	11895	11895	1R								rubble zone
F	11920	11920	11983	11983	11IB								slightly brken to intact - recovery good
F	11983	11983	11928	11928	11D								15cm qtz veins w/ ductile flow bxa texture



PROJECT VANGORDA DRILLHOLE NO. 87U-11 COORDINATES: N \_\_\_\_\_ DATE OCT 31 1987  
 LOCATION \_\_\_\_\_ HOLE SIZE NQ E \_\_\_\_\_ PAGE    of     
 LOGGER CR INCLINATION -90° 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		COMMENTS	
		LENGTH	%	LENGTH	%		CATEGORY	NO.			DEPTH	ANGLE	NO.	FREQ.	NO.	FREQ.		
22																		Truncated - NO RECOVERY
27		4.8		0.4														
32		4.4		0.5														
37		5.8		1.6														
42		5.0		0														
47		5.4		0.6														
52		5.1		2.9														
57		5.4		2.1														
67		11.6		5.5														
72		5.4		1.1														
77		5.4		0.6														
82		1.4		0														
87		5.7		0.5														
92		5.3		3.4														
97		5.8		0.9														
102		5.0		0.4														
107		5.3		1.8														
112		5.0		1.2														
117		3.2		0.5														
122		3.6		0														
127		6.0		1.4														
130		2.9		0														
135		5.7		3.4														
139		4.0		0.5														
142		3.2		2.1														
146		3.6		0.4														
151		5.3		1.8														
152		1.8		0.1														

Fig. 1. Typical rock mechanics core log.

PROJECT VANGORRA DRILLHOLE NO. 82V-11 COORDINATES: N \_\_\_\_\_ DATE oct 31 1987  
 LOCATION \_\_\_\_\_ HOLE SIZE NO E \_\_\_\_\_ PAGE    of     
 LOGGER CLR INCLINATION \_\_\_\_\_ ELEVATION \_\_\_\_\_



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**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		COMMENTS
		LENGTH	%	LENGTH	%		CATEGORY	NO.			DEPTH	ANGLE	NO.	FREQ.	NO.	FREQ.	
157		5.7		3.0													
162		5.3		3.3													
167		4.4		3.1													
172		5.3		2.4													
177		5.0		2.4													
182		5.4		1.5													
187		5.1		4.0													
192		5.0		1.2													
197		5.1		4.6													
202		5.0		4.1													
207		5.1		4.7													
212		5.1		3.6													
217		5.1		4.4													
222		5.1		3.7													
227		5.1		5.1													
232		5.1		4.5													
237		5.5		3.0													
242		5.0		4.6													
247		5.2		3.5													
252		5.2		4.6													
257		5.1		5.1													
262		5.0		4.7													
267		5.3		5.3													
272		4.9		4.5													
277		5.1		5.1													
282		5.2		3.6													

Fig. 1. Typical rock mechanics core log.

PROJECT VANGORDA DRILLHOLE NO. 87V-11 COORDINATES: N \_\_\_\_\_ DATE OCT 21 1987  
 LOCATION \_\_\_\_\_ HOLE SIZE NA E \_\_\_\_\_ PAGE    of     
 LOGGER SVR INCLINATION -900 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.		
287		5.5		4.6														
292		5.0		4.7														
297		5.2		4.7														
302		5.3		5.2														
307		5.2		4.9														
312		4.9		2.5														

*EOI*

Fig. 1. Typical rock mechanics core log.

87V-12

DIAMOND DRILL CORE LOG

Date: \_\_\_\_\_

Hole Number: 87 V-12

Reference Fabric Orientation Diagram:

Project: 1987 Vangorda drilling

Location: Vangorda Deposit

Claim: \_\_\_\_\_

Terr. Plane Co-ords.: 6903204.42 N

594122.54 E

Grid Co-ords: 10E / -0.5

Elevation: 1157.50

All symmetry determinations looking

Total Depth: 314 feet (95.7 m)

NW with 52 dipping

Inclination: -90° (vertical)

SW with dip azimuth \_\_\_\_\_.

Purpose: ore reserve definition + metallurgical samples

Reason hole Terminated: drilled through ore

Logged by: LCP + CVR

Date(s) Logged: OCT 29-30 / 1987

Drilling Contractor: ARCTIC DIAMOND DRILLING

Hole Cemented: No Steel down Hole: No

Size	CORE From	To	Collar Cased and Capped: <u>No</u>
<u>NW</u>	<u>0</u>	<u>72</u>	
<u>NW</u>	<u>72</u>	<u>314</u>	

Assay Lab: MINE

Certificate No's: \_\_\_\_\_

Started: OCT 25/87 Completed: OCT 26/87

DDH 87V-12  
 2 8

Diamond Drill Core Log Date: \_\_\_\_\_ Logged By: \_\_\_\_\_

Code	Drillhole	Elevation	Northing	Easting	Units (feet/metres)	R.F.E
I	2	8	10	16 17	24 25	32 34
T	87V-12	1157.5	9103204.4	5941122.5		52

Code	Drillhole	Depth	Zenith Angle	True Azimuth	Comments					
I	2	8	10	14	22	26	28	32	34	56
R	87V-12	100	180°	0	0°	AT COLLAR				

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

Code	From	To	Recov.	No.	Unit	Description
L	10 0	21.9 17.2 0		1	#1	TRIMMED NO RECOVERY
L	17.2 0	28.3 17.2 0		2	#1	Overburden TILL Gravel to boulders of predominately 10 AB Anvil Bath. Largest boulder 1.1' $\phi$ . Smaller gravel clasts contain abundant phyllite. Overall colour is grey to brown Matrix is mud/silt/sand 72-77 0.4' core   77-82 4' core   rest of interval recovery is O.K.
L	19.2 0	28.3 19.4 6		3	5D14	very oxidized. Bright orange-brown soft punky mud. Based on observation in other holes this was originally an altered 5D metabasite, now highly weathered & oxidized. 2.3' of core was recovered
L	19.4 6	33.2 110 B B		4	4E14	Sand (4G4 sand) extremely weathered Dark brass green $\rightarrow$ black, extremely soft & friable pyritic sulphide-sand/mud. S <sub>2</sub> have been highly weathered in place so that it is no longer coherent rock, i.e. 'resolite'. At 99.5 a 20 cm interval of 4G44. At 105.5 & 107 a 10 cm of light grey $\rightarrow$ off white gouge - phyllite interbands? Bottom 1' is slightly porous Ba/Py sulphide ore. 701-102 recovery reasonable   102-107, 4' core   107 to FOI rec reasonable. Est Pb+Zn 10-12% Note: Looks like fine grained ramp zone ore $\rightarrow$ ?
L	110 B B	35.4 111.6 2		5	3B14	±9 (4L0) Gouge 85:15 Light grey, very soft, non calcareous phyllite. S <sub>2</sub> folia are typically

Code	From	To	Recov.	No.	Unit	Description
I	10 14 16 20 22 24 26 28 30 34 35					
						light silvery grey - locally they are greenish silvery white. For the last 0.5' they are dark dull grey. From 111' to 112' is off white. S <sub>2</sub> folia are creamy white & have a slightly 'soaps' feel. The entire unit is strongly to incipiently gouged, consequently the unit is very broken. TOI-112 Rec O.K.   112 → EOI some core lost. Not sure if lost in this or next unit. May <u>or</u> may not be significant fault?
L	111.62	<sup>29.2</sup> 121.86		16	51D4	± # (4E4) 80:20 slightly oxidized. Dominant lithology is a soft, dull pale olive green, generally non calcareous PS <sub>2</sub> foliated phyllite. S <sub>2</sub> folia are pale silvery green → greenish white. Locally bright green mariposite spots on the S <sub>2</sub> . This 1 cm thick pegmatitic bull gte veins are extremely vuggy indicating the weathering out of calcite. 126.5 → 128.6, a fine grained, dark brassy, non calcareous pyritic S <sub>2</sub> . Locally it is slightly porous. Locally it has a white surface coating on fractures presumably having something to do with weathering. Core is very broken & rubble with intervals of gouge throughout. TOI → 117 gussy some core loss ie 112 → 117 only 3' of core   117 → 122, 4' core recovered   122 → 127, 2 1/2' core   127 → EOI reasonable recovery since it is massive sulphides. At 117' a steep fracture system 15° to core axis. May be a bottom gouge contact. Est Pb+Zn 6% comb. (for sulphides only)

Code	From	To	Recov.	No.	Unit	Description
L	11286	11430		7	1410	6 → 46 weak [3648 stringed]
						Very soft, non calcareous, very pale silvery green dominately $PS_2$ foliated, phyllite. $S_2$ folia are a silvery-cream with a very pale greenish tint. Middle third of unit contains abundant pegmatitic qtz bands with associated dark green chlorite + minor py. Locally, these are folded to the axial planes being $S_2$ . Upper contact sharp. Lower contact gradational. From 142 gradual ↑ of silvery-grey on $S_2$ folia.
						701 → 132 is very rubbly with abundant gouge. Only two feet of core. 132-137 very broken with incipient gouge. Rec is O.K. 137-142 very broken to rubbly. Possible incipient gouge. Only 1.8' core. 142-147 is very broken + rubbly. 2.7' core. Rec is pathetic. May be related to major faults? or lithology.
L	11470	11734		8	1310	Thickly laminated, soft, non calcareous, light grey, $PS_2$ foliated phyllite. Laminations defined by light grey qtz siltstones. $S_2$ folia are silvery-grey. Entire interval is moderately to very broken with small incipient gouge cores at 150' + 156' + 165.5. Both upper + lower contacts are gradational. Recovery O.K.
	11734	11778		9	1410	4 weak [3646 stringed]
						Soft non calcareous, $PS_2$ foliated, very pale greenish-white phyllite. Contains thin, S stringers // $S_2$ . $S_2$ folia are a light silvery-white. Top 0.8' is gouge. Bottom contact 000/43. Rest of the unit is moderately broken with short rubble zones. Appears to be 1' core loss which may be either the top or bottom of the unit.

Code	From		To		Recov.		No.		Unit		Description
	10	14	16	20	22	24	26	28	30	34	
	117	178	186.5	194					11P	14E14	\$ minor $\pm 6^{\circ}$ (4G4 $\pm \#$ ) 80:20 slightly oxidized Very thinly banded, brassy yellow $\rightarrow$ purplish brown pyritic S <sup>-</sup> , interbanded with baritic S <sup>-</sup> up to 30 cm thick. Calcite present in mtx of baritic S <sup>-</sup> . Pyritic S <sup>-</sup> contain white dol. clasts up to 1 cm $\phi$ . Locally the P <sub>2</sub> S <sup>-</sup> are vuggy to porous. Minor local development of 'micro-buckshot' texture. Est. Pb+Zn 12%. Core moderately broken. Rec O.K. Lowermost 1' has pegmatitic white qtz veins.
	118	154	188	197					111	14L0	6 weak 4 weak. (4E46\$ Porous $\pm 7$ ) 75:25 slightly oxidized Very pale greenish cream, soft, non calcareous, PS <sub>2</sub> foliated phyllite. Contains thin stringers + bands of S <sup>-</sup> // to S <sub>2</sub> . S <sub>2</sub> folia are light silvery cream with greenish tint. Interbanded w pyritic S <sup>-</sup> up to 0.8' thick. S <sup>-</sup> are very thinly banded with Ba + Sph rich sections. Locally they contain large Dol clasts. Est. Pb+Zn sulphides 12%. Sulphide bands occur at 186' + 188.5'. Core is moderately broken. Recovery is reasonable. Est Pb+Zn phyllide < 1%.
	118	189	203	197					112	3G14B16	[4L246] Soft, pale green noncalcareous PS <sub>2</sub> foliated phyllite. S <sub>2</sub> folia range from light silvery cream to steel grey, where less altered. Contains abundant stringers of P <sub>2</sub> + Sph (a) generally // to S <sub>2</sub> . Locally vuggy where associated with qtz/calcite? veins + lenses. Lower contact is gradational. TOT $\rightarrow$ 191.5 moderately broken / 191.5 $\rightarrow$ 197 very broken + rubblely w incipient gouge, only 2.2' core / 197 $\rightarrow$ 202, very broken w 3' core

Code	From		To		Recov.		No.		Unit		Description
	10	14	16	20	22	24	26	28	30	34	
											202 → FOI moderately broken, Est Pb+Zn overall 2% Py content < 5%
	1210	137	1211	120			113		5A16		9 minor Black, non calcareous, PS <sub>2</sub> foliated, moderately soft to moderately hard, phyllite. Upper 3' contains thin gt + py laminae generally // S <sub>2</sub> . Laminae are reminiscent of a poorly developed 4A texture. TOI → 208, moderately broken, rec O.K. / 208 → FOI, very broken + rubby, incipient goss developed at end of unit. 3' of core in this interval.
	1211	120	1211	170			114		14E/18		porous (4L0) 80:20 slightly weathered Top 1' is a pale silvery-greenish white noncalcareous soft PS <sub>2</sub> foliated phyllite. Phyllite contains very minor S <sup>-</sup> stringers // to S <sub>2</sub> . S <sub>2</sub> folia silvery-grey cream. Rest of interval is a thinly banded dark brownish-brass pyritic S <sup>-</sup> . Diffuse bands containing reddish-brown Sph, Mag occurs throughout as small streaks & blebs. Cut surface is locally porous. Est Pb+Zn 8%, TOI is very broken for 1st 1/2'. Rest of the interval moderately broken. Rec is O.K. Bottom 0.3' is a very high grade reddish-brown gtzite.
	1211	170	1212	14			115		4L10		±6 → 4L24 Soft noncalcareous very pale greenish-white phyllite. Dominately PS <sub>2</sub> foliated. Lower 1/3 of interval contains abundant Py + Base metal stringers // to S <sub>2</sub> & X-cutting S <sub>2</sub> . S <sub>2</sub> folia are dominately a light silvery, white. Locally some grey is visible. Locally phyllite has an overall dark, dull green colour. Core is slightly broken. Rec is good.

Code	From		To		Recov.	No.	Unit	Description		
	10	14	16	20					22	24
L	1211	4	1217	4		116	13161418	Moderately soft, P <sub>S2</sub> foliated, dull dark green, non calcareous, phyllite. S <sub>2</sub> folia are silvery-grey w slight greenish tint. Contains minor thin stringers of P <sub>g</sub> // to S <sub>2</sub> . Assumed to be originally a medium grey pelite altered by development of chlorite. Core is moderately broken. Rec is good.		
L	1217	4	1218	2		117	141214	± # minor ± (3C7 ± #) (4E4). 80:15:05 Uppermost 1.8' is a strongly P <sub>S2</sub> foliated green & white streaked locally calcareous metabasite. Texture is typical for 'leopard' rock. Majority of the interval is a moderately soft to locally hard, very light silvery grey-cream, generally non calcareous phyllite. Abundant stringers/laminae of fine grained P <sub>g</sub> + base metals. These stringers poorly define a micro-lithon texture. Locally they X-cut all cleavages. Very locally microlithons are defined by calcite rich siltstone bands. Rock becomes harder as move down through interval also w fewer S <sup>-</sup> stringers. 236.7 → 237.4 is a banded P <sub>g</sub> + massive S <sup>-</sup> . Contacts are generally // to S <sub>2</sub> . Est Pb/Zn 90%. Est Pb/Zn phyllite 10%. S <sub>2</sub> folia are very light greyish-silver. 70I → 235 moderately broken / 235 → 236.5 very broken / 236.5 → 70I intact. Rec is O.K for entire interval!		
L	1218	2	1219	9		118	41A17	→ (5A06) (5D4) 70:30:trace Ribbon banded, non calcareous, calcareous quartzite. w some Spk minor P <sub>g</sub> & minor P <sub>o</sub> as stringers // S <sub>2</sub> & X-cutting fractures. Grades rapidly into		

Code	From	To	Recov.	No.	Unit	Description
	10 14 16 20 22 24 26 28 30 34 35					
						moderately soft, very dark grey, $PS_2$ foliated, non calcareous phyllite. Phyllite does not contain qtz S-banding or $P_3$ . SD occurs as a 1" band at 241.3 & contains specs of bright green mariposite in a dull green musc chl mtr. Overall grade $< 10\%$ . Core is moderately broken down to 242/242 $\rightarrow$ FOI very broken $\rightarrow$ rubble. Recovery is O.K.
L	1214129	<sup>(79.9)</sup> 1216120		1119	141L10	(3G9) (5D0) 70:30 Trace. Light greenish grey, $PS_2$ foliated, non calcareous phyllite. Soft. $S_2$ folia are light silvery-grey. Unit grades into short intervals which are a soft dark grey $PS_2$ non calcareous phyllite. Locally both units contain qtz, calcite, & chlorite in veinlets & fracture infilling. Minor isolated $P_3$ present. Looks like a section of bleached & altered dark grey non calcareous phyllite. Fractures are locally porous & vuggy. TOT $\rightarrow$ 246.5 moderately broken, rec O.K. / 246.5 $\rightarrow$ 247 very rubble w incipient gouge / 247 $\rightarrow$ FOI moderately broken, rec O.K. 254.6 $\rightarrow$ 257 looks like a coherent breccia probably related to steep fractures. 1 10 cm calcareous dull olive green chl musc phyllite occurring at 259.4. The amount of dark grey phyllite $\uparrow$ greatly below 257'.
L	1216120	<sup>(83.1)</sup> 1217127		1210	151A16	(5B26) 90:10 Dominated a very dark grey, non calcareous, soft, phyllite $S_2$ folia are dark grey $\rightarrow$ dull sooty black. Dominately $PS_2$ foliated although locally microlithons defined by micas. Contains some

Code	From	To	Recov.	No.	Unit	Description
1	10	14 16	20 22 24	26 28	30 34 35	
						intervals up to 1' thick of medium dark grey phyllite which is just not dark enough to be 5A. Numerous steep qtz-calcite? veins in fracture infilling. Calcite assumed because they are locally vuggy. Bottom 0.6' is rapidly gradational to a pale siliceous-green noncalcareous highly altered 4L6 weak → 4L0 phyllite.
						TOI → 266.5 moderately broken / 266.5 → 267 very rubble / 267 → EOI moderately broken in short rubble zone at 268'. Recovery is reasonable.
L	121712	7 121717	8	1211	14161418	minor \$ minor Diffusely laminated brownish-grey baritic sulphides. Laminar marked by variations in Sph + Py content. Mag occurs as fine specs less in mtr. Dol occurs in clasts up to 1cm φ. Est Pb+Zn 13% (contains heavy coloured Sph. Est Py ranges between 15 + 40%. Upper contact is sharp, lower is gradational. TOI → 274.5 slightly broken. Rec is good / 274.5 → 276 moderately broken → rubble / 276 → EOI slightly broken. Rec O.K.
L	121717	16 121719	17	1212	141C101	(4L21) 50:50 Light greenish-cream, non calcareous soft phyllite in grey glt pyrite laminae. This unit forms the top & bottom of this interval. The middle consists of a very hard moderately pyritic qtzite. Core is moderately broken. Rec O.K. Upper + Lower contacts are stark // S <sub>2</sub> . Est Pb+Zn 0%. Lee thinks that the 4L

Code	From	To	Recov.	No.	Unit	Description
	10 14 16 20 22 24 26 28 30 34 35					
						is a highly silicified - altered phyllite.
L	121719 0	<sup>87.8</sup> 121818 0		1213	141614	8 ± # (4E48) 70:30 Thickly laminated to very thinly laminated, reddish brown → brassy yellow Ba/P <sub>3</sub> S <sup>-</sup> . Calcite present locally in Ba sulphide dess- in mtx. Banding + laminations delineated by variations in P <sub>3</sub> + base metal content. Ba S <sup>-</sup> locally have honey coloured Sph. Minor disseminated Mag in blebs + streaks throughout. Est PbtZn 16%. P <sub>3</sub> in Ba S <sup>-</sup> ≈ 40%. P <sub>3</sub> in P <sub>3</sub> S <sup>-</sup> ≈ 80%. Core is slightly broken. Rec is O.K. Very pyritic interval occurs in one band from 283' → 286'.
L	121818 0	<sup>91.3</sup> 121919 8		1214	141E14	8 ± 6 Generally homogeneous, dark brassy - yellow pyritic S <sup>-</sup> . It contains variably sized Dol, Sph, Gal ± Ba ± Cpy clasts/lenses, these range from 5 cm down to 1/2 cm φ. Base metals look to be fracture infillings + selvages around Dol. Sph varies from dark reddish - brown → pinkish brown. Est PbtZn 90%. P <sub>3</sub> content ≈ 85%. Some 10 - 30 cm intervals contain up to 10% Ba dess- in mtx. Lenses/streaks are elongate    to S <sub>2</sub> . Core is intact. Rec is excellent.
L	121919 8	<sup>95.7</sup> 131119 0		1215	131G1416	Light silvery grey, soft, non calcareous PS <sub>2</sub> phyllite S <sub>2</sub> folia are light silvery grey. Unit becomes darker ↓ interval. Minor discontinuous qtz - fine py streaks    S <sub>2</sub> especially in upper part of

DDH 87V-12  
2 8

CURRAGH RESOURCES INC.  
Lithologic Log

Date: Oct 29/87 Logged By: LCP + CUR

Code	From		To		Recov.		No.		Unit		Description
	10	14	16	20	22	24	26	28	30	34	
											interval. Fatigue interval is very broken to locally rubble. 10 cm
											gouge at 307' 5 cm of precipant gouge at 312'. Rec to
											302 is reasonable   302 → 307 2' of core   307 → 312 3 1/2' core.
											312 → 314 3' of core   Significant core loss between 302 & 308.

ASSAY LOG (SAMPLER'S COPY)

CODE	FROM		TO		SAMPLE	INTR.	REC (m)	UNIT	DESCRIPTION
	10	14	16	20					
	1912	0	1914	6	1112101		133	15104	very oxidized
	1914	6	1919	5	1112102		149	14E14	Sand very oxidized
	1919	5	11013	2	1112103		144	14E164	Sand very oxidized
	11013	2	11018	8	1112104		149	14E164	L Sand very oxidized
	11018	8	1116	2	1112105		154	13164	
	1116	2	1126	5	1112106		173	15104	
	1126	5	1128	6	1112107		125	14E14	slightly oxidized
	1128	6	1135	8	1112108		163	14L106	[3G48]
	1135	8	1147	0	1112109		167	14L106	[3G48]
	1173	4	1177	8	1112110		138	14L10	
	1177	8	1181	3	1112111		138	14E14	Porous slightly oxidized
	1181	3	1185	4	1112112		145	14E164	slightly oxidized
	1185	4	1188	9	1112113		141	14L106	slightly oxidized
	1188	9	1197	0	1112114		155	3164 1816	
	1197	0	12013	7	1112115		156	3164 1816	
	1212	0	1217	0	1112116		155	14E18	Porous slightly oxidized
	1217		1221	4	1112117		144	14L10 ±6	
	1227	4	1232	5	1112118		147	14L124	
	1232	5	1236	6	1112119		156	14L124	
	1236	6	1238	2	1112120		118	14E1L	
	1238	2	1242	9	1112121			14A17	5A
	1272	7	1277	6	1112122		156	1416418	
	1277	6	1279	0	1112123		122	141C1L	
	1279	0	1283	5	1112124		148	14164	
	1283	5	1288	0	1112125		149	1416E4	
	1288	0	1291	0	1112126		130	14E14	\$
	1291	0	1294	5	1112127		134	14E14	\$
	1294	5	1299	8	1112128		156	14E14	6 \$
			<u>EQH</u>						

Code	From		To		Feature	SYM	S <sub>0</sub>		S <sub>1</sub>		S <sub>2</sub>		Description	
	10	14	16	20			22	24	26	28	32	34		38
S			33.8 1111		P152							85	220	Foliations
S			41.5 11316		P152							714	220	Foliations
S			49.1 1161		P152							710	220	Foliations
S			53.3 11715		P152							47	220	"
S			60.0 11917		P152							510	220	"
S			63.1 1217		P152							410	220	"
S			67.7 1222		P152							718	220	"
S			73.2 1240		P152							712	220	"
S			77.2 12610		P152							710	220	"
S			84.1 1276		P152							610	220	Comp banding in B <sub>1</sub> S <sup>-</sup>
S			87.2 12816		P152							518	220	" " " "
S			94.2 1309		P152							515	220	Micaceous Foliation.
S			95.7 1314		P152							515	220	Foliation
					FOL.									

Fault Log

Code	FROM		TO (At)		Feature	REG	UPPER Dip Direct		INTERNAL Dip Direct.		LOWER Dip Direct		Description	
	10	14	16	20			22	24	26	28	32	34		38
F	101	1720	1720	1720	1NP0									Triconed - no recovery
F	1720	1770	1770	1770	1P0									8% recovery in fill
F	1770	1820	1820	1820	1P8									80% recovery in fill
F	1920	1246	1246	1246	18									88% recovery of mud
F	1946	11088	11088	11088	3181R									5' sand
F	11020	11070	11070	11070	18									80% recovery of 5' sand
F	11088	11162	11162	11162	3181G									phyllite gouge - very broken
F	11120	11162	11162	11162	1P6									3' core for 112-117 60% recovery
F	11162	11286	11286	11286	3181R									very broken & rubble
F	11162	11170	11170	11170	1G							15000		gouge
F	1117	11220	11220	11220	1P8									80% recovery
F	11220	11270	11270	11270	1P5									50% recovery
F	11286	11320	11320	11320	3181R5									very rubble w/ abundant gouge
														59% recovery
F	11320	11370	11370	11370	131B									very broken w/ incipient gouge - recovery OK
F	11370	11420	11420	11420	3181R3									36% recovery - very broken to rubble
F	11420	11470	11470	11470	3181R R									very broken & rubble - 54% recovery
F	11470	11734	11734	11734	121B									mod. to very broken - recovery OK
F		11510	11510	11510	11G									incipient gouge
F		11560	11560	11560	11G									incipient gouge
F		11655	11655	11655	11G									incipient gouge
F	11734	11742	11742	11742	1G							41301010		gouge
	11742	11778	11778	11778	2181R									mod. broken w/ short rubble zones
	11734	11778	11778	11778	17									77% recovery
	11778	11854	11854	11854	121B									mod. broken - recovery OK
	11844	11854	11854	11854	1Q									pegmatitic qtz veins
	11854	11889	11889	11889	121B									mod. broken - recovery reasonable
	11889	11915	11915	11915	121B									mod broken
	11915	11970	11970	11970	3181R4									very broken & rubble - 40% recovery
	11970	12020	12020	12020	131B6									very broken - 60% recovery
	12020	12037	12037	12037	121B									mod. broken
	12037	12080	12080	12080	121B									mod. broken - recovery OK
	12080	12120	12120	12120	3181R7									very broken & rubble - 75% recovery
	12120	12125	12125	12125	131B									very broken - recovery OK
	12125	12170	12170	12170	121B									mod. broken - recovery OK

Fault Log

Code	FROM		TO (At)		Feature	REG	UPPER Dip Direct		INTERNAL Dip Direct.		LOWER Dip Direct		Description	
	10	14	16	20			22	24	26	28	32	34		38
F	12117	0	1221	4	11B									slightly broken - good recovery
F	1221	4	1221	7	4	12B								mod. broken - recovery good
F	1221	7	1231	5	0	12B								mod. broken - recovery OK
F	1231	5	1231	6	5	13B								very broken - recovery OK
F	1231	8	1241	2	0	12B								mod. broken - recovery OK
F	1241	2	1241	2	9	31BIR								very broken to rubble - recovery OK
F	1241	2	1241	6	5	12B								mod. broken - recovery OK
F	1241	6	1241	7	0	G13IR								very rubble w/ incipient gouge
F	1241	7	1261	2	0	12B								mod. broken
F	1251	4	1251	7	0	IX								coherent bxa related to steep fractures
F	1261	2	1271	4	5	11B								slightly broken - recovery good
F	1271	4	1271	6	0	21BIR								mod broken & rubble
F	1271	6	1271	7	6	11B								slightly broken
F	1271	7	1271	9	0	12B								mod broken - recovery OK
	1271	9	1281	8	0	11B								slightly broken - recovery OK
	1291	9	1310	2	0	31BIR								very broken to locally rubble
	1310	7	1310	7	0	11G								10 cm gouge
	1310	2	1310	7	0	31BIR	4							very broken to rubble - 48% recovery
	1310	7	1311	2	0	31BIR	7							very broken to rubble - 70% recovery
	1311	2	1311	2	0	11G								5 cm incipient gouge.

PROJECT VANGORDA DRILLHOLE NO. 87V-12 COORDINATES: N \_\_\_\_\_ DATE OCT 30 1987  
 LOCATION \_\_\_\_\_ HOLE SIZE NØ E \_\_\_\_\_ PAGE    of     
 LOGGER CCP + CVR INCLINATION -90° 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.		
72		0		0														Traced - no recovery
77		6.3		0														
82		3.8		0														
87		5.3		0														
92		3.1		0														
98		5.4		2.1														
102		4.5		0.9														
107		4.2		0														
110		3.2		0														
112		2.0		0														
117		2.3		0														
122		3.8		0														
127		2.5		0														
132		4.0		1.0														
137		4.5		0.4														
142		1.5		0														
147		2.7		0														
152		5.0		0														
157		4.5		0.4														
162		4.7		0.5														
167		5.8		0.4														
172		5.2		0.9														
177		4.0		0														
182		5.2		2.6														
187		5.2		0.5														
192		4.8		1.2														
197		2.1		0														
202		3.1		0.4														

Fig. 1. Typical rock mechanics core log.

PROJECT VANGORDA DRILLHOLE NO. 87V-12 COORDINATES: N \_\_\_\_\_ DATE 09 30 1987  
 LOCATION \_\_\_\_\_ HOLE SIZE NQ E \_\_\_\_\_ PAGE    of     
 LOGGER LCP & CVR INCLINATION -90° 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.	
207		5.3		1.0													
212		3.8		0.4													
217		5.6		1.0													
222		4.8		1.0													
227		5.2		1.3													
232		4.5		0.8													
237		5.8		0.4													
242		4.8		1.9													
247		4.5		0.0													
252		5.0		1.3													
257		5.4		1.3													
262		4.8		3.7													
267		5.1		1.6													
272		5.2		0.5													
276		4.3		0.9													
281		5.3		1.8													
286		5.2		4.9													
291		5.3		3.6													
292		0.8		0.4													
297		5.2		4.2													
302		4.4		2.0													
307		1.8		0													
312		3.3		0													
314		2.8		0.5													

Fig. 1. Typical rock mechanics core log.

87V-13

DIAMOND DRILL CORE LOG

Date: \_\_\_\_\_

Hole Number: 87V-13

Reference Fabric Orientation Diagram:

Project: 1987 Vangorda Drilling

Location: Vangorda Deposit

Claim: \_\_\_\_\_

Terr. Plane Co-ords.: 6903227.72 N

594104.12 E

Grid Co-ords: 09E / -0.5

Elevation: 1154.20

All symmetry determinations looking

Total Depth: 345 feet (105.2 m)

NW with 52 dipping

Inclination: -90° (vertical)

SW with dip azimuth 220.

Purpose: ore reserve definition + metallurgical samples

Reason hole Terminated: drilled through ore

Logged by: CVR + LCP

Date(s) Logged: Nov 23-24 / 1987

Drilling Contractor: ARCTIC DIAMOND DRILLING

Hole Cemented: \_\_\_\_\_ Steel down Hole: \_\_\_\_\_

Size	CORE From	To	Collar Cased and Capped: <u>No</u>
<u>NW</u>	<u>0</u>	<u>122</u>	
<u>NQ</u>	<u>122</u>	<u>345</u>	

Assay Lab: MINE

Certificate No's: \_\_\_\_\_

Started: OCT 26 / 87 Completed: OCT 28 / 87

CURRAGH RESOURCES INC.

DDH 87V-13  
 2 8

Diamond Drill Core Log

Date: \_\_\_\_\_ Logged By: \_\_\_\_\_

Code	Drillhole	Elevation	Northing	Easting	Units (feet/metres)	R.F.E
I	2	8	10	16 17	24 25	32 34
T	87V-13	1154.2	9103227.7	51941104.1		S2

Code	Drillhole	Depth	Zenith Angle	True Azimuth	Comments
I	2	8	10	14 22	26 28 32 34 56
R	87V-13	100	180.0	0.0	AT COLLAR
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
I	2	8 10

Code	From				To				Recov.		No.		Unit	Description
	10	14	16	20	22	24	26	28	30	34	35			
L	10	0	11/12	0							1	#	Triconed - no recovery	
L	11/12	0	11/12	0							12	#	TILL Very soft, dominantly clay/organic mud @ TOI. From 116-EOI assorted pebbles of IDAB Anvil Batholith w/ largest one being 1" across. Only recovered 2' core which is very rubbly.	
L	11/12	0	11/13	74							13	#	TILL IDAB Anvil Batholith boulders and massive S <sup>+</sup> boulders. S <sup>+</sup> boulders are 4E4# - largest one is 6"-7" across. S <sup>+</sup> boulders show very little weathering. 70% batholith & 30% S <sup>+</sup> boulders. Int'l has 13.5' core recovered.	
L	11/13	74	11/15	120							14	HG-141	I # Minor ±8 (4E0 sandy) 60:40 locally nod to very oxidized 140.3-144.8 Dominant unit is light greyish tan to locally yellow, hard, poorly banded, baritic- pyritic S <sup>+</sup> . Minor calc. occurs locally dissem in matrix & in white cherts 2 cm across. Banding defined by variations in py, sphal. Within this unit have one interval 140.3-144.8 is extremely porous to sandy, brassy yellow, noncalcareous pyrite. Recovery in this interval extremely poor due to nature of rock. No grade associated w/ it. Contacts lost in rubble. TOI-140.3 core intact w/ good recovery / 140.3-144.8 8" core recovered / 145-EOI 5' core recovered (2' missing) intact to locally (145-146.2) extremely broken along steep fracture. Baritic grade 12-15% Magnetite thinly dissem. dominantly in py bands. Py content up to 60% Very little weathering on cut & broken surfaces.	

Code	From	To	Recov.	No.	Unit	Description
L	115120	115166		15	14E418	± # ± 6 Hard, locally calcareous, yellowish-brown, poorly banded, locally slightly baritic, pyritic S <sup>2</sup> . Banding defined by light gray, base metal-rich, finely dissem baritic bands which are locally folded. Cc occur locally dissem in matrix and in white clasts < 1 cm across. Abundant magnetite throughout matrix as tiny black spots and as beaded black laminae in pyritic S <sup>2</sup> . laminae parallel S <sub>2</sub> . Total S <sup>2</sup> 85% w/ remainder magnetite, barite, minor cc. Total grade 8-10% (Pb+Zn). Core intact w/ good recovery. Very little weathering on broken & cut surfaces.
L	115166	116100		16	14E101	porous. mod. oxidized Brassy yellow, homogeneous, fine-grained py. Abundant steep fractures at angle < 20° core axis. Fractures have white, soft, weathering coating. Locally white ptz clasts < 0.5 cm across. Very little grade. Total py x 95% 2-3% (Pb+Zn). Core very broken - no faults - recovery good.
L	116100	116163		17	14E#10	± 8 minor [4K0 ± 8 minor] slightly oxidized Moderately hard, very calcareous, poorly banded, fine-grained pyritic S <sup>2</sup> . Banding defined by diffuse white cc. bands ranging 1cm - 7cm thick. Locally core porous due to weathering of cc in matrix. Core is brassy yellow & white striped. At 165.5 have 10cm band of py + reddish brn sphal + finely dissem magnetite. Total S <sup>2</sup> 70% w/ remainder dominantly cc. Grade 2-3% (Pb+Zn). Core intact to locally mod. broken @ 162-163. No faults and good recovery. Only weathering noted is in porous area where cc weathered out. locally has post-drilling mat oxide film which washes off.

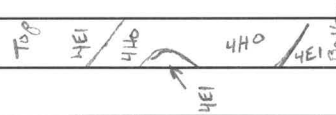
Code	From			To			Recov.			No.			Unit			Description
	10	14	16	20	22	24	26	28	30	34	35					
L	11616	3	11619	2					18	14161418	± #				slightly oxidized light tan, thickly laminated, locally slightly calcareous, extremely high grade banker S= Ubiquitous magnetite dissemin. as tiny black specks. Laminar defined by honey-coloured & reddish brown sphalerite. Top & bottom contacts sharp into pyritic S= Total S= 65-70% w/ remainder bank + magnetite. Grade 18-20% (Pb+Zn) Core intact w/ good recovery. No weathering surfaces except for patchy greenish-yellow coating on fracture surfaces	
L	11619	2	11716	7					19	141E1018	# \$				Hard yellow and grey striped, poorly banded, very calcareous pyritic S= Unit contains abundant magnetite in diffuse banded streaks parallel P52 (compas banding). Abundant cc dissemin in matrix & forms white bands on scale up to 4-5 cm across. Bands have cc dissemin in matrix & laminae. Bottom 1/2 of unit have large irregular dolomite clasts up to 20cm thick. Clasts extremely fractured w/ fractures infilled by py + red. sphal + galena. Locally ductile flow textures evident in py bands around clasts. Total py 70% w/ remainder cc-dol. Estimated grade 4-6% (Pb+Zn) Core intact w/ good recovery. Very little weathering.	
L	11716	7	11818	3					110	141E111	± 8 ± \$ minor				Spotty brassy yellow & minor gray, very hard, very poorly banded, moderately siliceous massive py. Banding defined by diffuse gray pt-rich intervals. Magnetite occurs locally in elongate fibrous streaks    S2 and is assoc w/ more pyritic intervals. Total pt content 15-20%. Estimated grade 0-10% (Pb+Zn). Locality cut surface has rust post-drilling oxide. Core intact w/ good recovery. Locally irregular dolomite clasts assoc. w/ pt - long axes parallel S2. Clasts up to 4cm across	

Code	From	To	Recov.	No.	Unit	Description
	10 14 16 20 22 24 26 28 30 34 35					
L	11818.3	11913.5		111	14E11#	± 8 minor Similar to Unit #10 (176.7-188.3) except this unit has white rounded calcite clasts + fine cc. dissem. in matrix. Total qtz = 25% w/ remainder being dominantly py. Estimated grade = 1% (Pb+Zn) Magnetite occurs locally as tiny black blebs assoc w/ calcite clasts. Core intact w/ good recovery.
L	11913.5	12101.0		112	14E11	I# ± 8 (4G4# 8) 80:20 Dominant unit is brassy yellow and grey striped, poorly banded, hard, locally calcareous, fine-grained py. Banding defined by qtz-rich intervals. Abundant very large calcite-qtz clasts / clots w/ irregular margins. Range in size up to 20 cm across. Locally py adjacent to clasts has ductile flow textures. Typically clast are well fractured and have py, sphal, & galena infilling fractures. Total py content 75% w/ remainder equal cc + qtz. Grade estimate 2-3%. Interbanded w/ this unit are yellowish tan, thickly laminated, baritic, pyritic S <sup>2</sup> . Banding confined to last 1/2 of interval w/ baritic bands 15-30 cm thick. Laminae parallel S <sub>2</sub> defined by variations in py & color variations in sphal. Cc occurs in small white rounded clasts & lenses in matrix. Total S <sup>2</sup> 70% w/ majority being py. Grade = 10-12% (Pb+Zn). Core intact - recovery good - no visible weathering. Magnetite locally occurs in 4E in large coarse clasts within the calcite clasts. In 4G magnetite occurs as tiny black specks disseminated in matrix.
	13111.0	12105.7				

Code	From		To		Recov.		No.		Unit		Description
	10	14	16	20	22	24	26	28	30	34	
L	121011	0	(62.6) 121054					113	1411418	3	# ± 7 ± 9 minor ± 1 minor Mottled grey, black and brassy yellow, very magnetic, calcareous, semi-massive pyritic S <sup>=</sup> / oxides. Unit is very hard. Mottled appearance due to large, whitish-grey, irregular qtz-calcite clasts and large clots/clots of magnetite-sphal-gal ± po ± spy in a pyritic fine-grained matrix. Sphal-gal-spy-po occurs as irregular infillings of fractures w/in calcite and magnetite clots. Total py ≈ 30% Total magnetite 45%. Rest consists of base metals, cc, qtz. Core beautifully intact w/ excellent recovery. Bottom contact sharp into pyritic S <sup>=</sup> . Qtz-cc clots up to 10cm / magnetite clots up to 5cm across. Estimated grade 7-8% (Pb+Zn). No weathering visible.
L	121015	4	(72.3) 121317	0				114	141131	± 9 ± 7 ± # minor ± 8 v. minor	slightly oxidized Very hard, brassy yellow and dull grey, thinly banded, moderately pyritic qtzite. Banding defined by variations in grey qtz / locally the qtzite intervals have paper thin carbonaceous folia. Po occurs locally in disrupted bands assoc. w/ base-metals and as thin streaks in qtzite intervals. Minor magnetite clots assoc w/ po + base-metal interval. Spy as splashing fracture infillings in qtzite intervals. Py forms diffuse bands parallel S <sup>2</sup> . Locally the bands are up to 40cm thick. Total py ≈ 60%. Cc occurs infilling fractures and irregular clots of qtz ranging up to 4-5cm across. Yellow-orange weathering noted locally on fracture surfaces. Also have post-dilling rust on cut surface. Core intact w/ good recovery. Grade is negligible.

Code	From		To		Recov.		No.		Unit		Description
	10	14	16	20	22	24	26	28	30	34	
L	1213170		1214124				115		141C101		± 7minor ± 9minor (4L1 2) Trace light grey to locally brassy yellow, very hard, poorly banded, moderately pyritic, noncalcareous gtlite. Diffuse, fine-grained py forms poorly defined bands parallel S2. Minor py & spy infilling thin fractures in gtlite. Total py 30%. At 237.7' 10cm band of mod. soft to mod. hard, siliceous, musc-chlorite altered phyllite. Contains abundant thin fractures filled w/ fine py, spy, po. Margins of unit parallel S2. Estimated grade 0-1% (Pb+Zn) Core intact w/ good recovery.
L	1214124		1214190				116		141L211	(4C3)	85:15 Mod. soft to mod. hard locally, mod. pyritic, noncalcareous, locally siliceous, altered musc. phyllite. Banding defined by gtlite-py bands parallel S2 ranging from 0.5cm - 3cm in thickness. S2 surfaces are dull patchy light green & grey. Total S= 15-20%. Abundant fine fractures infilled w/ py. Tabular is very hard, homogeneous, brassy yellow to grey-yellow, noncalcareous, pyritic gtlite. Grade is negligible. 4C3 up to 10cm thick & confined to top 1/2 of unit. Core slightly broken to intact / locally very broken @ 243 for 10cm and 245.2 for 10cm. Recovery excellent.
L	1214190		1215183				117		141L101	(10Q0)	95:05 Mod. soft, lamellarly P52 foliated, light grey w/ slight green tinge, noncalcareous, musc-chlorite phyllite. Minor specks of fine py. S2 surfaces are dull grey w/ greenish tinge. Pegmatitic white gtlite vein occurs 256.4-257. Upper contact gradational. Lower contact lost in rubble. Core mod broken - 252-257 has 2' core missing - probably related to gtlite vein near 257. Gtlite vein is very broken & rubble.

CURRAGH RESOURCES INC.  
Lithologic Log

Code	From	To	Recov.	No.	Unit	Description
	10 14 16 20 22 24 26 28 30 34 35					
L	121583	<sup>(79.9)</sup> 121620		118	14E110	(4H0 ± 9 v. minor) (4L0) 65:35! TRACE TOI - 259.8 mod siliceous, brassy yellow to grey, barren, very hard, noncalcareous pyrite lower contact steep 58° core axis 259.8 - 260.9 homogeneous, bronze, fine-grained py. Contains what appears to be an infold of 4E1 - 3" band of disseminated grey py & py HE1 is slightly porous w/in 4H0  No grade noted 260.9 - 261.8 is 4E1 - same unit as at top of unit 261.8 - 262. mod. soft, white altered gylitic pieces PSD foliated Core intact to locally rubble at FOI & TOI. Recovery good. End of unit is major fault.
L	121620	<sup>(81.6)</sup> 121678		119	14E104	Gouge + BXA very oxidized TOI - 263.8 is dk brown, oxidized py mud & sand. Contains angular pieces of 4E0 - largest about 1" across. Contacts at TOI lost in rubble. 263.8 - FOI porous S <sup>+</sup> in S <sup>+</sup> bxa. Fine-grained angular py clast range from <1mm to 15-20 cm across. Dominant fracture system 15° core axis. As go down interval clast size gets larger & start to see coherent 4E. No grade. Significant fault at top of interval repeats massive S <sup>+</sup> . TOI - 264.3 very broken & rubble / 264.3 - 266.0 very broken / 266 - FOI core intact recovery is good.
L	121678	<sup>(87.0)</sup> 1218155		120	14E1418	±# ±\$ minor mod. oxidized Mod. hard, poorly banded, magnetic, locally porous, pyritic S <sup>+</sup> . Core is yellowish-brown. Banding defined by variations in py and reddish brn splat - parallel S <sup>+</sup> .

CURRAGH RESOURCES INC.  
Lithologic LogDate: Nov 23/87 Logged By: CVR/LCP

Code	From		To		Recov.			No.			Unit	Description
	10	14	16	20	22	24	26	28	30	34		
												Top 3' is very porous due to weathering in proximity to fault. Cc. occurs in small subangular white clasts dissem throughout. Dol. occurs similarly but to a lesser degree. Abundant magnetite forms beaded, feathery black laminae parallel S2. Magnetite also occurs in rounded black clasts elongate // S2. Total py $\approx$ 80-85%. Estimated grade 8-9% (Pb+Zn). Core intact w/ mod. broken intervals TOI-270 and 282-283. Recovery OK
L	121815	5	121916	2					121	1416141	$\pm$ 8 $\pm$ # $\pm$ \$	light tanish grey, poorly laminated, brittle 5" laminae defined by grey galena, fine py, and reddish-brn sphal. locally magnetite forms thin streaks parallel S2. Cc. occurs finely dissem in matrix & small rounded clasts < 3-4mm across. Interval only v. slightly calcareous. U. minor. Dolomite occurs locally in rounded clasts less than 1cm across. Total py 50-60% w/ remainder dominantly base + base metal. Estimated grade 15-18%. Core intact to (locally mod broken TOI-207). Recovery good. No weathering noted. Post-drilling oxidation - rust brown - on cut surface locally.
L	121916	2	131015	8					1212	1414141	$\pm$ \$ $\pm$ 8 minor (4L 0 @ minor) 70:30	Dominant unit is mod. hard, bronze, homogeneous, fine grained massive po. Minor local angular 4H clasts occur in 4H. Dol. occurs in small subangular clasts randomly orientated. Black magnetite forms thin black streaks "defining" S2. Interbedded w/ 4H is mod soft, noncalcareous, slightly ankeritic, light pale greenish grey altered musc-chlorite phyllite. CS2 foliated. Contacts sharp against massive 4H - about 12° core axis. Ankerite occurs in thin laminae which weather tan-white. Unit structurally weakened by fold repetition - probably 1-3 hinges. S2 surfaces on phyllite parting grey & green. Grade 8-9% for 4H4. TOI- 297 intact w/ good recovery / 297-300 v. broken w/ incipient gouge in phyllite 299.5-1-2"

Code	From		To		Recov.		No.		Unit		Description
	10	14	16	20	22	24	26	28	30	34	
											core recovery 1.8' / 300-303 mod. broken w/ thin incipient platylike gouge at 300.7, 301.9 Not major faults 2.5' core recovered / 303-EOI intact w/ good recovery
L	131015	8	131113	9			1213		141E14		±6 ± 8 ±# ±\$ ± porous mod. oxidized Mod. hard, locally moderately basitic, thickly laminated, massive pyritic S= yellowish tan grey Unit locally calcareous - thin ss laminae parallel S2. Minor magnetite occurs dissem w/ basite in thin laminae < 3-4 mm thick parallel S2. Magnetite also forms large clots assoc w/ coarse galena up to 4-5 cm across Margins of clot very wuggy due to weathered ss. As go down DDH grade decreases, basite decrease, & py increases From 307.3-312 abundant small dolomite clots dissem in py - locally these are weathered out to form a porous texture. Abundant steep fractures < 25° core axis which have gobby orange- yellow oxidation on surfaces. 312-EOI Dolomite clots disappear and grade increases Overall grade 8-10% (Pb+Zn) Total py 75% TOI - 307.3 core intact / 307.3-312 very broken on steep fractures recovery OK / 312-EOI core very broken & rubble also due to steep fractures / Recovery OK
L	131113	9	131119	10			1214		141E1018		±7 Noncalcareous, brassy yellow, hard, homogeneous, fine-grained pyritic. Magnetite forms fine spots & locally thin foliating streaks throughout unit. Magnetite sheets assoc w/ v fine py. Grade is Ni. Core intact / recovery good. Abundant post-drilling rust on cut surface.
L	131119	1	131216	0			1215		141E11		±\$ Very hard, moderately siliceous, mod. dolomitic, homogeneous to locally partly banded, brassy yellow to dull grey pyritic S= Dolomite & gts occur dissem. in matrix

Code	From		To		Recov.		No.		Unit		Description
	10	14	16	20	22	24	26	28	30	34	
											<p>Dolomite confined to last 3' of interval. Top 3' of interval banding defined by diffuse py in grey pts. Total grade 0% (Pb+Zn) Core intact w/ good recovery. Top 2-3" of unit is large pt-dolomite chert w/ weathered wiggly margins. Locally, cut surface has post-drilling oxidation.</p>
L	131216	0	<u>100.1</u> 131218	3				1216	141101		<p>±1 ± ½</p> <p>Dominantly soft to locally med. hard, P52 foliated, locally siliceous light grey w/ green beige musc-chlorite phyllite. Qtz confined to top 4"-5" of unit &amp; occurs w/ dissem dolomite /ankerite - this may be a vein. Contact w/ S= irregular &amp; sharp. S2 surface creamy grey w/ local green patches. Thin beige &amp; green laminae parallel S2 - effervesces slightly in 20% HCl - likely ankerite? Bottom contact sharp and parallel S2 into grey phyllite. Core very broken - rubbing @ 326.5 - for 4"-5" No obvious faults. Recovery good</p>
L	131218	3	<u>105.2</u> 131415	0				1217	151316		<p>±4 ±2 ±9</p> <p>Mod. soft, non-calcareous, light to medium grey, P52-foliated phyllite. Top ½ of interval have thick bands of tanish grey slightly altered phyllite. S2 surface for altered unit is dull greyish green. Altered interval contains more abundant thin py stringers than surrounding med grey phyllite. Margins of altered intervals gradual - marked by decreasing grey colour. Unit becomes darker grey as go down DDH. S2 surfaces shiny med. grey. Abundant steep fractures filled w/ white pts. Very minor py occurs as isolated porphy. Near bottom 1' abundant fine grained py stringers parallel dominant S2 fltn. TOI-335 very broken / 335-EOT core intact recovery good.</p>
											EOT

ASSAY LOG (SAMPLER'S COPY)

CODE	FROM	TO	SAMPLE	INTR.	REC (m)	UNIT	DESCRIPTION
1	10 14 16 20 22 26 28 30 32 34 36 40 42						
	11374	114103	3109151	1	129	41G141	
	114103	114149	3109152	1	146	41E101	sandy very oxidized
	114149	114170	3109153	1	121	41G141	
	114170	115120	3109154	1	150	41G141	
	115120	115166	3109155	1	151	41E1481	
	115166	116100	3109156	1	141	41E101	porous mod. oxidized
	116100	116129	3109157	1	130	41E1#101	slightly oxidized
	116129	116163	3109158	1	143	41E1#101	slightly oxidized
	116163	116192	3109159	1	132	41G1481	slightly oxidized
	116192	117132	3109160	1	140	41E1018#	\$
	117132	117167	3109161	1	135	41E1018#	\$
	117167	118107	3109162	1	145	41E111	
	118107	118151	3109163	1	144	41E111	
	118151	118183	3109164	1	137	41E111	
	118183	119135	3109165	1	152	41E11#1	
	119135	119177	3109166	1	147	41E111	
	119177	120110	3109167	1	133	41G141#18	
	120110	120154	3109168	1	144	41J141813	#
	120154	120194	3109169	1	140	41C131	slightly oxidized
	120194	121138	3109170	1	145	41C131	"
	121138	121173	3109171	1	143	41C131	"
	121173	122116	3109172	1	145	41C131	"
	122116	122157	3109173	1	143	41C131	"
	122157	123100	3109174	1	144	41C131	"
	123100	123139	3109175	1	146	41C131	"
	123139	123170	3109176	1	131	41C131	"
	123170	124124	3109177	1	156	41C101	
	124124	124159	3109178	1	134	41L101C1	
	124159	124190	3109179	1	143	41L101C1	
	124190	125183	3109180	1	185	41K101	
	125183	126120	3109181	1	137	41H1E1	
	126120	126156	3109182	1	134	41E10141	Gauge + BXA very oxidized
	126156	126178	3109183	1	125	41E10141	BXA very oxidized
	126178	127122	3109184	1	150	41E1481	mod. oxidized
	127122	12770	3109185	1	151	41E1481	"
	12770	128119	3109186	1	148	41E1481	"





Fault Log

Code	FROM		TO (At)		Feature	REG	UPPER Dip Direct		INTERNAL Dip Direct.		LOWER Dip Direct		Description	
	10	14	16	20			22	24	26	28	32	34		38
F	1110	1	1112	0	IMP	0								Triconed - no recovery
F	1112	0	1122	0	IP	2								20% recovery in fill
F	1122	0	1137	4	IP	8								87% recovery in Till
F	1140	3	1144	8	3BIR	1								Sandy & porous - 15% recovery
F	1144	8	1152	0	IP	6								69% core recovery
F	1145	0	1146	2	J3B									very broken along steep fracture
F	1151	6	1161	0	J3B				20	0100				very broken on steep fractures @ 20% core axis
F	1162	0	1163	0	12B									mod. broken
F	1173	0	1176	7	ID									clasts of dolomite w/ ductile flow bra textures
F	1193	5	1201	0	ID									cc & gte clasts
F	1242	4	1249	0	11B									slightly broken to intact
F	1243	0	1243	0	13B									very broken for 10cm
F	1245	2	1245	2	13B									very broken for 10cm
F	1249	0	1258	3	12B	7								mod. broken - 78% recovery <sup>gte veins problem</sup>
F	1256	4	1257	0	3BIR	2								very broken & rubble - w/ gte veins - probably explains core loss
F	1262	0	1267	8	3XIG									
F	1262	0	1264	3	3BIR				15	0100				very broken & rubble - dominant fracture 15°/core axis
F	1264	3	1266	0	13B									very broken
F	1267	8	1271	0	12B									mod. broken - recovery OK
F	1282	0	1283	0	12B									mod. broken - recovery OK
F	1285	5	1287	0	12B									mod. broken - recovery OK
F	1297	0	1300	0	13B	6								very broken w/ incipient gauge 60% core recovery
F	1299	5	1299	5	11G									2" gauge
F	1300	0	1303	0	12B	8								mod. broken - 83% recovery
F	1301	0	1301	0	11G									incipient gauge
F	1301	9	1301	9	11G									incipient gauge
F	1307	3	1312	0	J3B									very broken on steep fractures
	1312	0	1313	9	3BIR									recovery OK
	1312	0	1313	9	J									very broken & rubble on steep fractures

Fault Log

Date: Feb 3/88 Logged By: LCP

Code	FROM				TO (At)				Feature	REG	UPPER Dip Direct				INTERNAL Dip Direct.				LOWER Dip Direct				Description	
	1	10	14	16	20	22	24	26			28	32	34	38	40	44								
F									1312165	31B1K													5" of very broken & rubble core recovery OK	
F									1312183	131350	131B													very broken - recovery good

PROJECT \_\_\_\_\_ DRILLHOLE NO. 87V-13 COORDINATES: N \_\_\_\_\_ DATE Nov 24 1987  
 LOCATION \_\_\_\_\_ HOLE SIZE N9 E \_\_\_\_\_ PAGE     of      
 LOGGER \_\_\_\_\_ INCLINATION -90° 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		COMMENTS
		LENGTH	%	LENGTH	%		CATEGORY	NO.			DEPTH	ANGLE	NO.	FREQ.	NO.	FREQ.	
112		0		0													Triconal
116		1.5		0													
122		0.7		0													
125		1.5		0													
127		0.3		0													
132		2.4		0.4													
135.5		1.8		0													
140.5		3.5		0.8													
145		1.0		0													
152		4.4		1.6													
157		5.3		4.8													
160		3.3		0													
165		5.6		3.8													
170		5.4		4.0													
175		5.1		3.8													
180		5.1		4.3													
182		1.7		1.2													
187		5.3		4.4													
192		4.8		4.8													
197		5.3		4.5													
202		5.0		4.6													
207		5.0		4.5													
212		4.7		3.5													
217		5.5		3.5													
222		5.2		4.3													
227		5.1		4.2													
232		4.8		3.7													
237		5.2		4.7													

Fig. 1. Typical rock mechanics core log.



87V-14

DIAMOND DRILL CORE LOG

Date: \_\_\_\_\_

Hole Number: 87V-14

Reference Fabric Orientation Diagram:

Project: 1987 Vangonda Drilling

Location: Vangonda Deposit

Claim: \_\_\_\_\_

Terr. Plane Co-ords.: 6903018.77 N

594281.81 E

Grid Co-ords: 18E / -0.5

Elevation: 1146.17

All symmetry determinations looking

Total Depth: 111 feet (33.8 m)

NW with 52 dipping

Inclination: -90° (vertical)

SW with dip azimuth 220°.

Purpose: ore reserve definitions + metallurgical samples

Reason hole Terminated: drilled through ore into phyllite

Logged by: CVR

Date(s) Logged: Nov 2/87

Drilling Contractor: ARCTIC DIAMOND DRILLING

Hole Cemented: No Steel down Hole: No

Size	CORE From	To	Collar Cased and Capped: <u>No</u>
<u>NW</u>	<u>0</u>	<u>10</u>	
<u>NW</u>	<u>10</u>	<u>111</u>	

Assay Lab: MINE

Certificate No's: \_\_\_\_\_

Started: OCT 29/87 Completed: OCT 30/87

# CURRAGH RESOURCES INC.

DDH 87V-14  
            2                                 8

## Diamond Drill Core Log

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	87V-14	1146.2	903018.8	594281.8						5.2		

Code	Drillhole	Depth	Zenith Angle	True Azimuth	Comments					
1	2	8	10	14	22	26	28	32	34	56
R	87V-14	100	180.0	0.0	AT COLLAR					
R										
R										
R										
R										
R										
R										
R										
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Code	Drillhole	Comments, Errant Remarks, Snivellings and / or Lewd Suggestions		
1	2	8	10	56

Code	From	To	Recov.	No.	Unit	Description
1	10	14 16	20 22 24	26 28	30 34 35	
	10	11.5	0		#1	TRICONED - NO RECOVERY
	11.5	13.2	5	12	#1	Overburden Mud & Boulders <u>Tile</u> very oxidized Unconsolidated weathered reddish-brown mud & small pebbles. Mud supports 10AB granitic Anvil Both boulders up to 0.9' $\phi$ . Boulders weathered to a tan-cream colour. 15' $\rightarrow$ 22' 4' of core / 22' $\rightarrow$ 32' 0.5' core / 32' $\rightarrow$ FOI 1.3' core.
	13.2	13.7	8	13	41C10	#3 slightly weathered, slightly oxidized Very hard, poorly banded, locally pyritic, yellowish-grey non calcareous qtzite. Broken surfaces weathered to rust brown. Py in fine dissemination in grey qtz & locally forms aggregates in diffuse poorly defined bands. Base metals not seen. Minor fractured bull-qtz veins up to 2" thick. Fractures filled with fine Py. Veins trending along S <sub>2</sub> ? Est Py % 25-30% locally up to 70%. Est Pb+Zn 1-3%. Core moderately broken with rubble zone top 8" of unit. Recovery O.K.
	13.7	14.0	9	14	41C10	Similar to last unit except contains less pyrite in more diffuse poorly developed bands & aggregates in grey qtz matrix. Broken surface + cut surface is not oxidized. Est Py 20% Est Pb+Zn <u>1-3%</u> (if lucky) Core is intact Rec is good.

Code	From	To	Recov.	No.	Unit	Description
1	10 14 16 20 22 24 26 28 30 34 35					
	4 10 9	16.7 15 2 7		5	14IE1B ±1	Brass yellow, very hard, moderately siliceous to locally homogeneous, non cc, massive fine grained py. Local diffuse gtz bands containing abundant disseminated py aggregates ranging on a scale up to 8" thick. These bands separate dominantly homogeneous, fine grained, thick intervals (up to 4') containing abundant dess- mag. in small clasts + streaks up to 1cm thick. Also contains very minor extremely fine grained gtz dess- in mtx. Core intact to slightly broken. Rec is good. Est SiO <sub>2</sub> 10% Est Pb+Zn 1-2%
	15 12 7	17.7 15 18 2		16	41D141#18 ±3	Moderately hard, light brown, thinly banded, calcareous, extremely high grade gtzite. Abundant reddish-brown Sph and light grey Gal in thin bands // to S <sub>2</sub> up to 4" thick. Py occurs in thin bands up to 3" thick in the top 2' of the unit. Ubiquitous mag occurs in black 'specks' dess- throughout. Mag locally forms black streaks // to S <sub>2</sub> . White calcite occurs in large clasts <sup>up to 4" φ</sup> and in fine siltstone laminations predominately in the Py rich intervals. Est Py 15% (overall) Est Pb+Zn 25% Core is intact except for moderately broken interval at TOI → 54'.
	5 18 2	19.1 16 2 8		17	14IE1#	slightly oxidized Mottled, white & brass yellow, extremely calcareous, pyritic S <sup>-</sup> . Calcite occurs in abundant thin siltstone bands and in large creamy white sub-angular clasts up to 1.5" φ. Unit is hard & locally is vuggy due to weathering of calcite.

CURRAGH RESOURCES INC.  
Lithologic Log

Code	From	To	Recov.	No.	Unit	Description
1	10 14	16 20	22 24	26 28	30 34	35
						Very minor, dark green chlorite seen as selvages on two calcite clasts near 62'.
						Est % Py 75-80%. Est Pb+Zn 3%. 3.2' of core recovered. Core is very broken.
	16 12 8	(22.9) 17 5 0		18	141E18	± 1 ± # minor ± 9 very minor
						Very hard, brass yellow to locally grey yellow, locally poorly banded, pyritic sulphides. Dull grey interstitial qtz locally defines intervals of poorly banded py ll to S <sub>2</sub> on a scale up to 2'. Very minor 'selastis' Cps stringers associated with qtzose intervals. Mag dominately associated with P <sub>2</sub> in clasts & streaks up to 2cm across. Calcite occurs locally in the bottom 2' of the unit in small clasts in pyrite up to 1cm φ. Base metal appears to be confined to reddish, 1cm thick Sph bands with dess <sup>-</sup> py in the top 1' of the unit.
						Est P <sub>2</sub> 85% Est Pb+Zn 1-2%. Core very broken to rubble. From TOI → 65.8   65.8 → 68 core moderately broken   68' → 70' very broken   70' → 72.3' slightly broken to intact   72.3 → 73.5 very broken to rubble   73.5 → EOI intact. No gouge seen in any rubble zones. Recovery is good
	17 5 0	(20.8) 19 4 4		19	131G16	± B10 (10&9) Trace slightly oxidized
						Dull light grey, moderately soft, noncalcareous musc. phylite S <sub>2</sub> folia are shiny silvery-grey. Unit is P <sub>2</sub> finely laminated. Po occurs in one 4" thick band at 77.7' with finely dess <sup>-</sup> grey qtz. Po also occurs in numerous fracture filling stringers with P <sub>2</sub> & Marcasite? Fractures are steep & X cutting S <sub>2</sub> .

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	22	24	26	28	30		34	35
																							Locally cut & broken surface show reddish-orange oxidation streaks Top 6" of unit is a dull grey pegmatitic gtz vein w/ numerous sulphide veinlets in fractures. Dull green chlorite also filling thin fractures in gtz. 'Spotty' brown bio is locally developed. TOE → 79' core extremely broken to rubble / 79' → FOI core is very broken. No gouge seen, recovery is good.
	19	4	4	0								11	10			14	17	4	9	minor			Moderately soft to locally hard, light greyish-green, locally CS <sub>2</sub> foliated, moderately siliceous and pyritic altered musc-chl phyllite. S <sub>2</sub> is dominantly a patchy dark & light steely-grey with a slight olive green tinge. Some P <sub>3</sub> porphs seen on the S <sub>2</sub> . Locally thin gtz & chl laminations define lithons. Coarse P <sub>3</sub> dess <sup>-</sup> in very diffuse bands up to 4" thick. P <sub>3</sub> also occurs finely disseminated in fine gtz laminations & thin fracture fills. P <sub>0</sub> occurs in thin 'splashy' bands and fracture fills. Minor Cpy locally in fine stringers in gtz. Core is very broken to locally rubble. No gouge seen in rubble zones. Recovery is OK.
																							EOH

DDH 87V-141  
2                    8

# CURRAGH RESOURCES INC.

Page 7 of       

Logged by CVR.

## ASSAY LOG (SAMPLER'S COPY)

Date Nov 21 87 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			
	1	13	25	1	13	17	8	1	1	1	1	4	2	1	14K10 ±3 slightly weathered sl. oxidized	
	1	13	17	8	1	14	10	9	1	1	1	4	3	1	4K10	
	1	14	10	9	1	14	15	3	1	1	1	4	4	1	4E18 71	
	1	14	15	3	1	14	18	5	1	1	1	4	5	1	4E18 ±1	
	1	14	18	5	1	15	12	7	1	1	1	4	6	1	4E18 ±1	
	1	15	12	7	1	15	14	7	1	1	1	4	7	1	4E18 ±1	
	1	15	14	7	1	15	18	2	1	1	1	4	8	1	4E18 ±1	
	1	15	18	2	1	16	12	8	1	1	1	4	9	1	4E18 ±1	
	1	16	12	8	1	16	16	6	1	1	1	4	10	1	4E18 ±1 ± # minor ± 9 very minor	
	1	16	16	6	1	17	11	4	1	1	1	4	11	1	4E18 ±1 ± # minor ± 9 very minor	
	1	17	11	4	1	17	15	0	1	1	1	4	12	1	4E18 ±1 ± # minor ± 9 very minor	

Code	From		To		Feature	SYM	S <sub>0</sub>		S <sub>1</sub>		S <sub>2</sub>		Description	
	Dip	Direct.	Dip	Direct.			Dip	Direct.	Dip	Direct.	Dip	Direct.		
	10	14	16	20	22	24	26	28	32	34	38	40	44	
S				13.4	0 P							5.3	21210	P <sub>s</sub> banding in 4C
S				17.1	0 P							4.3	21210	Sph banding in 4D
S				10.5	5 P							6.2	21210	P <sub>s</sub> banding in 4E
S				27.9	5 C				210	01010		8.6	21210	Micaceous foliations
S				32.3	0 C				512	21710		7.5	21210	Micaceous foliations

DDH 87U-14  
2 8

CURRAGH RESOURCES INC.  
Fault Log

Date: Feb 3/88 Logged By: LCP

Code	FROM				TO (At)				Feature	REG	UPPER		INTERNAL		LOWER		Description
	10	14	16	20	22	24	26	28			32	34	38	40	44		
F	10	1	15	0		11P	0										Tricond - no recovery
F	15	0	12	0		1P	5										57% recovery in Till
F	12	0	13	0		1P	0										5% recovery in Till
F	13	5	13	2		1R											rubble zone
F	13	2	13	7		12B											moderately broken
F	14	9	15	2		11B											intact to slightly broken - recovery good
F	15	2	15	4		12B											mod. broken
F	15	8	16	2		13B	7										very broken - 70% recovery
F	16	2	16	5		31B	1R										very broken to rubble
F	16	5	16	8		12B											mod. broken
F	16	8	17	1		13B											very broken
F	17	1	17	2		11B											slightly broken to intact
F	17	2	17	3		31B	1R										very broken to rubble
F	17	5	17	9		31B	1R										very broken to rubble
F	17	9	19	4		13B											very broken
F	19	4	11	1		31B	1R										very broken to locally rubble

EOH

PROJECT VANGORDA DRILLHOLE NO. B7V-15 COORDINATES: N \_\_\_\_\_ DATE NOV 2 1987  
 LOCATION \_\_\_\_\_ HOLE SIZE NQ E \_\_\_\_\_ PAGE    of     
 LOGGER \_\_\_\_\_ INCLINATION -90° 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.	
15																	TRIMMED - NO RECOVERY
17		0.8		0													
22		3.0		0.7													GRANITE BOULDER
27		0.3		0													
32		0.2		0													
33.5		2.2		0													
38.5		5.2		2.1													
42		4.9		4.5													
45.5		3.4		1.8													
48.5		3.2		2.6													
52		3.8		2.8													
54		1.7		0													
59		5.0		4.7													
62		2.3		0													
64		2.5		0													
69		5.7		2.1													
72		2.7		2.2													
73.5		2.1		0													
78.5		4.1		1.2													
82		3.4		0.4													
87		5.1		0.4													
92		5.1		0													
97		5.2		0.8													
102		4.2		0													
107		5.2		2.5													
111		3.9		1.5													

FOH

Fig. 1. Typical rock mechanics core log.

87V-15

DIAMOND DRILL CORE LOG

Date: \_\_\_\_\_

Hole Number: 87V-15

Reference Fabric Orientation Diagram:

Project: 1987 Vangorda Drilling

*Bentonite for overburden*

Location: Vangorda Deposit

*550 for coring*

Claim: \_\_\_\_\_

Terr. Plane Co-ords.: 6903034.55 N

594254.82 E

Grid Co-ords: 17E / -1.0

Elevation: 1147.16

All symmetry determinations looking

Total Depth: 106 feet (32.3 m)

NW with 52 dipping

Inclination: -90° (vertical)

SW with dip azimuth 220°.

Purpose: test ore reserves + metallurgical samples

Reason hole Terminated: drilled through ore into phyllite

Logged by: CVR

Date(s) Logged: Nov 5-6 / 1987

Drilling Contractor: ARCTIC DIAMOND DRILLING

Hole Cemented: No Steel down Hole: No

Size	CORE From	To	Collar Cased and Capped:
<u>NW</u>	<u>0</u>	<u>30</u>	<u>No</u>
<u>NQ</u>	<u>30</u>	<u>106</u>	

Assay Lab: MINE

Certificate No's: \_\_\_\_\_

Started: OCT 31/87 Completed: NOV 1/87

CURRAGH RESOURCES INC.

DDH 87.V.-15.  
2 8

Diamond Drill Core Log

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	87.V-115	1147.2	903034.6	594254.8		5.2	

Code	Drillhole	Depth	Zenith Angle	True Azimuth	Comments
I	2 8 10	14 22	26 28	32 34	56
R	87.V-115	100	180° 0	0° 0	AT COLLAR

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

Code	From		To		Recov.		No.		Unit		Description
	10	14	16	20	22	24	26	28	30	34	
		10		13.1	0					#1	TRICONED NO RECOVERY
		13.1		13.1	0					#1	very oxidized Till Brown-orange weathered IOAB Anvil Bath frags averaging 1" $\phi$ No matrix recovered Assumed to be pieces of boulders in overburden. Core rubble. Recovery $\approx$ 0.3'
		13.1		13.9	0					14E14B	(4L624*) 95:5 slightly oxidized Dominated by a yellow-brown poorly banded, locally brecciated, noncalcareous pyritic S <sup>-</sup> unit is hard with slight yellow orange weathering on broken surfaces. Overall unit shows little weathering - Surprising since it is so close to the surface. Abundant Mag occurs in beaded streaks up to 1 cm across. Also occurs in clasts and thicker bands up to 5 cm across. At 32.5 $\rightarrow$ 33.3' Massive mag & dol? in black & white mottled flow breccia? Interbanded with this unit is a light grey to dull olive green, soft, ankeritic?, altered chibrite + musc. phyllite. Contains minor dess <sup>-</sup> py & massive dark brown sph in fracture fill. Gal occurs similarly. 4L occurs at 35.0' $\rightarrow$ 36.0', 36.9' $\rightarrow$ 37.4, 38.7 $\rightarrow$ 39.3. Margins of 4L are irregular into massive S <sup>-</sup> . Est total S <sup>-</sup> 80% Est Pb + Zn 9% Core is slightly broken to rubble in phyllitic intervals Recovery is good.
		14.4		14.7	4					14G4	(4J4) 75:25 TOI $\rightarrow$ 46' light yellowish-tan, hard, non calcareous, non-weathered massive Ba/P <sub>2</sub> sulphides. Unit is poorly laminated.

Code	From	To	Recov.	No.	Unit	Description
1	10	14 16	20 22 24	26 28	30 34 35	
						<p>Laminations defined by abundant heavy colored Sph. Est 2 Pb 50, Est Pb+Zn 15%. Unit grades sharply into a dark brown hard, extremely Sph rich, moderately pyritic massive S= locally, "microbuckshot" texture developed in bands up to 2" thick. Bands separated by dark brown massive fine grained Sph w minor diss- py &amp; specks of a hard dark grey mineral, presumably qtz. Sph rich intervals have irregular contacts w microbuckshot bands. Also minor qtz clasts up to 1cm <math>\phi</math> w subangular boundaries supported in fine Sph matrix.</p> <p>Est % S= 90%. Est Pb+Zn 40% (K=454). For entire unit. Est Pb+Zn 25%. Recovery is O.K. TOI <math>\rightarrow</math> 46' core moderately broken 146 <math>\rightarrow</math> BOT core is very broken.</p>
	14 17 4	15 11 7		15	4 11 16 11 12 4	<p>(1009) 60:40 slightly oxidized? TOI <math>\rightarrow</math> 49.2 is a white pegmatitic bull qtz vein w local thin fractures containing stringer Sph, Gal, Py &amp; Cpy (minor). 49.2 <math>\rightarrow</math> BOT Light greyish-white, <sup>green tinge,</sup> moderately hard, extremely fractured and highly altered + silicified musc, chl. phylite. Abundant fracture filling Sph, Gal, + Py. Both boundaries of the entire unit are sharp against massive S=. Unit locally vuggy due to weathering of carbonate veins. Est Pb+Zn 3-5%. Core is broken to locally rubble. No gouge in rubble zones. Recovery is O.K.</p>

Code	From	To	Recov.	No.	Unit	Description
1	10 14 16	20 22 24	26 28	30 34 35		
	15.1 7	<sup>19.9</sup> 16.5 4		16	14164	± 8 ± \$ minor Hard, light tan, thinly banded, massive Ba/Py sulphides Bands defined by Py + base metal rich intervals // to S <sub>2</sub> up to 2cm thick. Local mag in small disseminations in py bands located in bottom 3' of unit. Local minor disseminated dol clasts up to 5mm φ. Est % Sulphides 70% Est Pb+Zn 16%. Abundant red + honey sph in // S <sub>2</sub> bands up to 3cm across w finely dess- py. Core is intact to locally very broken Very broken at 70.1 → 53.0, very broken at 57.1 → 58.1'. Core recovery is good.
	16.5 4	<sup>21.9</sup> 17.2 0		17	41E14181\$	[4J83] Hard, mottled dark brown + brass yellow, homogenous to locally poorly banded, moderately dolomitic (in clasts), pyritic S <sub>1</sub> . Abundant mag occurs in streaks + bands up to 2cm thick and in clasts dess- throughout the m <sup>tx</sup> . Flowing mag, abundant dol clasts averaging 0.5cm φ, and thick diffuse py bands/streaks give a sulphide/oxide flow breccia texture. Locally, disrupted base metal rich microbrecciated bands with finely dess- mag are present. Est % Py 50% Est Pb+Zn 10% Core intact, Recovery is good.
	17.2 0	<sup>23.2</sup> 17.6 0		18	14164	± 8 ± # minor Light tan-grey, hard, locally calcareous in thin siltstone laminations, Ba/Py sulphides. Mag occurs locally in clasts up to 1cm φ and in thin feathery streaks. Core locally well broken along steep fractures

Code	From	To	Recov.	No.	Unit	Description					
1	10	14	16	20	22	24	26	28	30	34	35
											Total S <sup>-</sup> 70% Est Pb+Zn 12% Core is very broken. Recovery is O.K.
	17	16	0	<u>25.3</u> 8	12	9			9	41C138	± 8 minor slightly oxidized? Light grey, locally brass yellow, hard, poorly banded, pyritic qtzite. Py occurs in thick diffuse bands with less grey qtz and mag clasts & streaks. Upper 2' contains thin red-brown sph rich bands up to 0.5 cm thick with finely dess <sup>-</sup> py & mag. Unit locally porous in weathered dol. clasts & weathered steep carbonate filled fractures. Est total S <sup>-</sup> 50% Est % Pb + Zn 3-5% Core slightly broken, recovery is good.
	18	12	9	<u>27.9</u> 18	18	7			1110	41E101±1	minor. Hard, non calcareous, brassy yellow, homogenous, massive fine grained Py. Local steep fractures 1-3mm thick filled with locally vuggy carbonates (Dol?) Top 2' of interval contains minor grey qtz in thin beaded streaks    to Sz. Est % S <sup>-</sup> 96% Est Pb+Zn 1-2% Contacts of unit grade rapidly into pyritic qtzites.
	18	18	7	<u>29.4</u> 19	16	5			1111	41C13	± 8 ± 9 minor Noncalcareous, Very hard, light yellow-grey, thickly banded pyritic qtzite. Pyrite in bands up to 15cm thick with grey dess <sup>-</sup> py and locally dess <sup>-</sup> fine mag. Local 'splashy' Cpy in veinlets in qtz. Est % S <sup>-</sup> 60% Est Pb+Zn 1-2%. Bottom contact sharp into phyllides.

Code	From	To	Recov.	No.	Unit	Description
1	10 14 16 20 22 24 26 28 30 34 35					
	19 16 5	32.3 17 10 16 0		112	13 10 10	± 9 (4L62*) 90:10 noncalcareous
						Dominant unit is a soft light grey to locally dark grey-black muscovite phyllite. Local CS <sub>2</sub> foliated. Lithons defined by qtz laminations & carbonaceous folia. S <sub>2</sub> folia is a light silvery grey and is locally a shiny black in more carbonaceous intervals. Top 10" of the unit is altered against sulphides. Unit is a light olive green to locally silvery white. S <sub>2</sub> surface is a light pale green. Unit is soft with minor grey qtz in thin laminations. Py in small des- porphs associated with qtz laminations. Core is locally broken into poker chips. Tan carbonates in thin laminations in 4L.
						TOI → 101 core is very broken, recovery is 0.11 / 101 → 106 core very broken to very rubble. Recovered only 1.5' core. No mud gouge seen & loss of core does not seem to be fault related.
						E O H



CODE	FROM		TO		SAMPLE	INTR.	REC (m)	UNIT	DESCRIPTION			
	10	14	16	20						22	26	28
		13		15	1112129		14	94E48	(4L624*)			
		13		14	1112130		14	54E48	(4L624X)			
		40		44	111231		14	04E48	(4L624*)			
		44		47	1112312		13	94G4	(4J4)			
		47		51	1112313		15	24L6112	4 (1099)			
		51		56	1112314		14	94G4 ± 8	±\$			
		56		61	1112315		14	84G4 ± 8	±\$			
		61		65	1112316		14	84G4 ± 8	±\$			
		65		68	1112317		13	24E48	\$ [4J83]			
		68		72	1112318		13	74E48	\$ [4J83]			
		72		76	1112319		14	94G4 ± 8	±#			
		76		79	1112410		13	04C38 ±	\$			
		79		82	1112411		15	04C38 ±	\$			
		82		86	1112412		13	14E0 ± 1				
		86		88	1112413		13	14E0 ± 1				
		88		93	1112414		14	94C31 ± 8	±9			
		93		96	1112415		14	64C31 ± 8	±9			

DDH 87.V-1.5  
2 8

**CURRAGH RESOURCES INC.**  
**Structural Log**

Code	From		To		Feature	SYM	S <sub>0</sub>		S <sub>1</sub>		S <sub>2</sub>		Description
	10	14	16	20			Dip	Direct.	Dip	Direct.	Dip	Direct.	
S	10	14	16	20	P <sub>3</sub> S <sub>2</sub>						61	220	P <sub>3</sub> banding in 4E4
S				20.5	P <sub>3</sub> S <sub>2</sub>						56	220	P <sub>3</sub> " " 4G4
S				23.7	P <sub>3</sub> S <sub>2</sub>						58	220	P <sub>3</sub> " " 4G
S				26	P <sub>3</sub> S <sub>2</sub>						60	220	Micaceous foliations in 3G

Fault Log

Code	FROM		TO (At)		Feature	REG	UPPER Dip Direct		INTERNAL Dip Direct		LOWER Dip Direct		Description
	10	14	16	20			22	24	26	28	32	34	
F	101	101	1310	1310	MP	0							Triconed - no recovery
F	1310	1310	1311	1311	P	3							30% recovery of TILC
F	1311	1311	1414	1414	IB								slightly broken
F	1315	1315	1316	1316	IR								rubby - phyllite
F	1316	1316	1317	1317	IR								rubby - phyllite
F	1318	1318	1319	1319	IR								rubby - phyllite
F	1414	1414	1416	1416	IB								mod. broken - recovery OK
F	1416	1416	1417	1417	IB								very broken
F	1417	1417	1419	1419	Q								qtz vein
F	1417	1417	1511	1511	IBIR								broken to rubby along steep fractures
F	1511	1511	1513	1513	IB								very broken - recovery good
F	1517	1517	1518	1518	IB								very broken - recovery good
F	1615	1615	1712	1712	ID								ductile flow bra. texture strong
F	1712	1712	1716	1716	IBW								very broken along steep fractures
F	1716	1716	1812	1812	IB								slightly broken along steep fractures
F	1916	1916	1101	1101	IB								very broken - recovery OK
F	1101	1101	11016	11016	IBIR3								very broken to very rubby - 30% recovery

PROJECT VANGORDA DRILLHOLE NO. 87V-15 COORDINATES: N \_\_\_\_\_ DATE NOV 6 1987  
 LOCATION \_\_\_\_\_ HOLE SIZE NQ E \_\_\_\_\_ PAGE of \_\_\_\_\_  
 LOGGER \_\_\_\_\_ INCLINATION -90° 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.		
30																		TRIMMED - NO RECOVERY
31		0.3		0														
37		6.4		3.6														
42		4.0		0.4														
44		1.8		0														
48		4.2		1.5														
50		1.7		0														
53		2.5		0.5														
58		5.1		3.1														
62		3.7		2.6														
67		5.1		4.0														
72		5.0		5.0														
76		4.5		0.9														Step fracture system
81		6.0		3.1														
86		5.0		3.3														
91		5.2		4.7														
96		5.1		4.8														
101		4.6		1.6														
106		1.8		0														

Fig. 1. Typical rock mechanics core log.

DIAMOND DRILL CORE LOG

Date: \_\_\_\_\_

Hole Number: 87V-16

Reference Fabric Orientation Diagram:

Project: VANGORDA

*Bentonite for overburden  
550 for coring*

Location: Vangorda deposit

Claim: \_\_\_\_\_

Terr. Plane Co-ords.: 6902985.77 N

594288.83 E

Grid Co-ords: 19E / -1.0

Elevation: 1146.38

All symmetry determinations looking

Total Depth: 131.5 feet (40.1 m)

NW with 52 dipping

Inclination: -90° (VERTICAL)

SW with dip azimuth 220°.

Purpose: ore reserve definitions + metallurgical samples

Reason hole Terminated: drilled through ore into phyllite

Logged by: LCP + CVR

Date(s) Logged: Nov 17-19 / 1987

Drilling Contractor: ARCTIC DIAMOND DRILLING

Hole Cemented: NO Steel down Hole: 0

Size	CORE From	To	Collar Cased and Capped:
<u>NW</u>	<u>0</u>	<u>12</u>	<u>No</u>
<u>NW</u>	<u>10</u>	<u>136.5</u>	

Assay Lab: MINE

Certificate No's: \_\_\_\_\_

Started: Nov 1/87 Completed: Nov 3/87

DDH 87.V.-16  
2 8

Diamond Drill Core Log 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	87.V.-16	1146.14		902985.8		594288.8					52

Code	Drillhole	Depth		Zenith Angle	True Azimuth	Comments																
I	2	8	10	14	22	26	28	32	34	56												
R	87.V.-16	10	0	180° 0	0° 0	AT COLLAR																
R																						
R																						
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Code	Drillhole	Comments, Errant Remarks, Snivellings and / or Lewd Suggestions											
I	2	8	10	56									

CURRAGH RESOURCES INC.  
Lithologic Log

Code	From				To				Recov.		No.		Unit		Description
	10	14	16	20	22	24	26	28	30	34	35				
		10	0	3.0 110								1	#		Overburden - TRICORVED
		11	0	3.7 112								2	#		Overburden TILL One 0.1" piece of IOAB batholith, partly re-drilled
		12	0	5.2 117								3	4G4		Extremely oxidized 12' → 14' is 0.5' of extremely oxidized Ba S <sup>2</sup> . Upper 1/2 consists of pebbles of porous orange-brown iron oxides. Bottom 1/2 consists of pebbles of Ba S <sup>2</sup> with 0.5 cm. rind of brownish orange iron oxides. 14'-17" no core recovered. Core is very rubble, very is very poor! 1-2% Est Pb+Zn 10-13%?
		17	0	6.0 119				6				4	4G4	± # minor	mod. oxidized Hard, locally slightly calcareous, brown-brass. py+ba S <sup>2</sup> . Uppermost 10 cm contains numerous grey gtz clasts up to 2 cm φ. Unit locally contains small calcite clasts. Poorly banded w variations in Sph + Ba content. Generally medium → fine grained. Est Pb+Zn 12%. Core has local orange-brown weathering surfaces on fractures. Locally unit is porous, extreme weathering as above is not present. Core is very broken, very rubble, at 17' & 18.5 → EOI. No obvious faults.
		19	6	7.3 214								5	4K62	(10Q9)	Oxidized 80:20 mod. oxidized TOI → 20.2 consists of pegmatitic bull gtz vein which is extensively fractured & infilled with sulphides. Upper contact is sharp & irregular at 5° to core axis. Qtz commonly has orange-

Code	From	To	Recov.	No.	Unit	Description
1	10 14	16 20	22 24	26 28	30 34	35
						brown stain on broken surface. 20.2 → EOL soft, non calcareous PS <sub>2</sub> foliated pale greenish-white musc + chl phyllite. Contains thin stringers of fine grained Py which are    to S <sub>2</sub> + locally, folded into nodinal folds with S <sub>2</sub> as axial planes. S <sub>2</sub> surfaces are pale greenish-cream + contain a strongly developed orange-brown overprinting due to weathering. Core is very broken → rubble. Rocky O.K. No faults. Total S = 5%.
	R 17 0	(3.4) 217 7		16	41E H 18 ±6 ± # minor	slightly oxidized Dark brownish-brass, poorly laminated, moderately hard pyritic S <sup>±</sup> . CC occurs locally as small clasts + dess <sup>-</sup> in mtx. S <sup>±</sup> are slightly porous in calcareous intervals. Mag occurs as small black blebs. Poorly defined banding based on variable Sph + Ba. Upper + lower contact sharp. Interval contains steep fractures containing chlorite + antlerite? which also locally are weathered to give a wuggy texture. Core is very broken, Rocky O.K. Cut surface not strongly weathered. Broken surfaces have faint yellowish-brown coat and/or faint white coat. Est Pb+Zn 12%. Lower contact shows displacement offset along a steep fracture to more extensive orange-brown weathering on the fracture surface.
	1217 7	(3.4) 1310 9		7	1416 1214 ±1	slightly oxidized. Pale grey PS <sub>2</sub> foliated, noncalcareous, musc phyllite. Contains extensive stringers of Py + some Sph both    to S <sub>2</sub> + along X-cutting fractures. Overall unit is moderately soft,

Code	From	To	Recov.	No.	Unit	Description
	10 14 16 20	22 24 26 28 30 34 35				
						although some intervals hard due to qtz w py stringers // to S <sub>2</sub> . S <sub>2</sub> surfaces are strongly marked by orange brown → dark brown iron oxide coatings. Total S = 20% w py >> than any other S. Core moderately broken. Core is O.K. Upper contact a steep fracture straight down core axis. Lower contact is sharp // to S <sub>2</sub> .
L	1309	<sup>10.3</sup> 1338		18	51F6	± \$ [506 ± \$] slightly oxidized Dull olive green - dark green & tan striped chloritic phyllite. Striping on a scale of 1mm → 1cm. Upper part of unit is dolomitic. Lower 2/3 is non calcareous. S <sub>2</sub> surfaces are dark shiny green. Carbonate rich stripes are porous & tan coloured because of weathering. Core is moderately broken w a short moderately rubble at 32.8. Recov. is O.K.
L	1338	<sup>11.3</sup> 1372		19	414012	± 1 Mod. soft, noncalcareous, pale greenish white muscovite phyllite. Top 10' against metabasite extremely hard (qtz-rich) with abundant dk brn, fine-grained py forming a dense fracture network. For rest of interval have minor 1-3cm intervals which are hard because of dissem. qtz + py. S <sub>2</sub> surfaces greenish cream. Lower contact arbitrary and gradational; marked by increase in grey on cut surface and S <sub>2</sub> folia. Xcutting fractures infilled by qtz have orientation 090/25. Core very broken / recovery seems OK.
L	1372	<sup>18.9</sup> 1619		110	151B161	± 2 → (5A69) (5D6) 951051 TRACE Mod grey, noncalcareous, soft, generally P <sub>S2</sub> foliated phyllite. Upper contact

Code	From		To		Recov.		No.		Unit	Description	
	10	14	16	20	22	24	26	28			
										gradational w/ fading of alteration to grey phyllite. S2 surfaces light to medium steely grey. Locally contains darker intervals up to 1-3' thick. S2 folia are dark steely grey and poorly marked fingers. At 60.4 have 10 cm of olive green, PS2 foliated, soft homogeneous, noncalcareous chloritic phyllite. Contacts are sharp and parallel S2. Bottom 1.5' is CS2-foliated w/ developed of pt-py banding separated by very dark green carbonaceous S2 folia. Rock not 4A because still moderately soft. TOI-42 very broken & pieces chipping but reasonable recovery / 42-52 very broken and rubbly w/ local incipient gouge 2 1/2' core for interval 44-48.5 / 52-57 very broken w/ local rubbly intervals - no gouge noted. Only 2.6' core recovered / 57-EOI mod. to very broken recovery in 4' in 5' interval. Possible fault but probably not major.	
L	1611	9	1618	5					111	41A141	0 ±4 (506) TRACE slightly oxidized (67')
											Very hard, dark grey, noncalcareous, ribbon-banded pt-ik. Typical 4A texture w/ fine-grained grey pt-ik separating white pt-py-sphal bandings. Both PS2 and CS2 textures w/ PS2 dominating at top of unit. S2 surfaces are shiny dark grey to black and moderately marked fingers. At 63.1 have 10 cm of olive green, soft, noncalcareous, PS2 foliated, homogeneous, chloritic phyllite. Total S <sup>2</sup> in 4A 20% w/ py about 2x sphalerite overall. Estimated grade 6% (Pb+Zn). Core moderately broken w/ good recovery. At 67' steep fractures are well-recessed vuggy - contains thin tan-white surface coating. Fracture orientations 090/10

Code	From			To			Recov.			No.			Unit			Description
	10	14	16	20	22	24	26	28	30	34	35					
L	16	18	5	22.1 17	22	24			115	14	14	016	± 1	(4A0)	95:05	<p>Med soft w/ local qtz-rich hard intervals, noncalcareous, pale greenish cream, PS2-foliated phyllite. S2 surfaces light greenish white w/ hint of grey. Bottom contact shows rapid change to grey phyllite. Top contact sharp against 4A qtz. At 70.6 have 10cm of 4A0 w/ gauges on both sides - possible infold of 4A on piece caught in small fault. Contacts parallel S2. TOI-71 very broken w/ 5-10 cm gauges at 70.4 and 70.9. Recovery reasonable / 71-EOI med broken w/ good recovery. Grey aspect to S2 surface suggests parent rock was a pelite (5B6).</p>
L	17	12	5	27.7 19	11	0			116	15	18	1612	± # [5A6±#] (5B6)	(4L6) (4L02)	80:15:05:TRACE	<p>Dark grey to almost black, generally noncalcareous, moderately soft phyllite. S2 surfaces are dark steely grey to shiny black and leave a slight mark on fingers when rubbed. Contains intervals of noncalcareous phyllite which are med. to light grey. Minor pale green, soft, CS2-foliated, noncalcareous phyllite. S2 surfaces are creamy green w/ faint grey tint (4L6). Bottom 0.5' of interval is pale greenish white, noncalcareous, soft muscovite phyllite w/ stringers of py parallel and cutting S2 folia. (4L02) looks like alternation envelope to massive S= down the hole. locally blk phyllite. CS2 foliated w/ trace siltstone bands - locally these bands/laminae weather tan due to minor dolomite. TOI-79.3 med broken w/ good recovery / 79.3-80.0 very broken w/ gauge - recov OK / 80.0-EOI very broken to med. broken w/ gauge zones @ 81 and 90.5 - recov OK.</p>
L	19	11	0	31.1 11	0	2	0		117	14	16	1418	± # ± #	both minor		<p>Grey-brass, moderately hard, poorly laminated to thinly banded baritic S= banding defined by variations in py, barite, sphal. Minor clast of dolomite and calcite in upper 3' of interval. Dolomite clast up to 4 cm across and calcite</p>

Code	From	To	Recov.	No.	Unit	Description
1	10 14 16	20 22 24	26 28	30 34 35		
						generally about 2mm across Magnetite dissem. + tiny specks locally magnetite forms coarse irregular grains in py-sphal rich intervals. Baite content decreases as go down interval - near bottom have pyritic S <sup>±</sup> w/ 0.5cm banded laminae spaced every 2-4cm. Rarely intervals contain honey coloured Sph. P <sub>2</sub> intervals contain reddish-brown Sph. Est Pb+Zn 15%. Est P <sub>2</sub> content 60-65%. Core is intact. Recov is O.K. From 95-96.5 very broken.
	11012 0	<u>32.3</u> 11016 0		118	4E141618	±# slightly oxidized on fractures Moderately hard, dark brassy yellow pyritic massive S <sup>±</sup> w/ irregular bands + laminae containing Sph, Mag, Gal, + Ba locally. Some 10 cm intervals contain moderate to abundant calcite in intx. Very minor dol clasts typically associated w/ sph rich bands. Contains steep fractures infilled w/ calcite. Locally fractures are weathered out giving a vuggy texture. General orientation of fractures is 270/20 relative to compositional banding. Est Pb+Zn 12%. P <sub>2</sub> content 80%. Mag forms thin streaks + irregular blobs up to 1cm across, generally elongate in dominant foliation. Upper contact is gradational marked by ↓ in Ba. Lower contact is gradational marked by general ↓ in grade. Core is intact to locally slightly broken along steep fractures. Recov is O.K.
	11016 0	<u>34.7</u> 11113 9		119	14E10	±4 ±# ±8 slightly oxidized on steep fractures Brassy yellow, hard, homogeneous massive P <sub>2</sub> S <sup>±</sup> . Contains scattered 0.5 cm thick bands consisting of subangular P <sub>2</sub> chert in reddish-brown sph intx. These are spaced irregularly

Code	From		To		Recov.		No.		Unit		Description
	10	14	16	20	22	24	26	28	30	34	
											From 3 cm to 30 cm apart. Core contains steep fractures with calcite weathering out to give vuggy texture. Locally fractures combine to give a sulphide Rca texture w/ angular fine grained Py clasts in a reddish-brown Sph matrix. Fractures are 5° to 15° to core axis. Est Pb+Zn 4% combined. Core is moderately broken, locally very broken from T0I → 107. ± 180.5 → 111'. Locally carbonate in fractures is weathering to a tan colour. Recovery is O.K. Py contains local tiny, dress-blebs of mag.
	11113	9	11117	6			1210		141E11		± 4t# (4G4 ± 8) slightly weathered on fractures A dark brassy, hard fine grained Py w/ irregular bands of grey qtz containing dress- fine grained Py. Qtz bands + lenses are up to 1 1/2 cm thick + elongate // to S2. Entire unit has strong fracturing w/ carbonate filling fractures. Locally these are weathered to a vuggy porous nature. Typically these fractures are steep 0-20°. Locally fractures emanating do form sulphides in sulphide matrix. Bottom 1' is a high grade baritic massive S2 w/ scattered fine grained mag. This sub-unit also strongly fractured w/ calcite infilling fractures. Est Pb+Zn entire unit 2-3%. Py content 80%. Core is intact. Recovery is good. In spite of all the fracturing, bottom contact is sub-// to S2.
	11117	6	11216	5			1211		141L1012		4 → (4L6) 50:50 Top of interval is a soft non calcareous, PS2 foliated creamy white musc phyllite. S2 surfaces are silvery-white

DDH 87V-16  
2 8

CURRAGH RESOURCES INC.  
Lithologic Log

Page 10 of     

Date: Nov 19 1987 Logged By: LCP & CUR

Code	From		To		Recov.		No.		Unit		Description
	10	14	16	20	22	24	26	28	30	34	
											Contains minor tiny py streaks + thin py-qtz laminae. Gradual change down the hole to a dull - pale green soft noncalcareous phyllite. S <sub>2</sub> surfaces silvery-white → pale green. Lower part contains tiny spots of py + thin Spl-qtz laminae. 121 → 121.5 Pegmatitic calcite which appears to be folded. Core is very broken to incipient rubble zones. Recov only 80% No indication of major faults. (in terms of recov).
	11216	5	11311	5			122		1410		GOUGE  Creamy white to pale greenish tint, noncalcareous mud to chunks + pieces of typical 46 msec phyllite. Core is gouge. 2' core recovered in 5' interval. Looks like a significant fault. top contact at footage break - in rubble.
											EOH <hr/> <hr/>



DDH B.F.V.-1.6  
 2 8

CURRAGH RESOURCES INC.  
 Structural Log

Page \_\_\_\_\_ of \_\_\_\_\_

Date: Nov 19/87 Logged By: LEP + CUR

Code	From		To		Feature	SYM	S <sub>0</sub>		S <sub>1</sub>		S <sub>2</sub>		Description	
	10	14	16	20			22	24	26	28	32	34		38
J				7.0 23	PIS2							68	2120	Micaceous Foliation
S				11.9 319	PIS2							77	2120	" "
S				30.6 167	5 CIS2S				37	01010		73	2120	4A Ribbon Banding
S				24.7 81	PIS2							73	2120	Micaceous Foliation
S				31.4 103	PIS2							77	2120	lamp banding in 4E
S				34.1 112	PIS2							60	2120	" " " "
S				37.2 122	PIS2							69	2120	Pervasive Mica Foliation

FIG 4

Fault Log

Code	FROM		TO (At)		Feature	REG	UPPER Dip Direct		INTERNAL Dip Direct.		LOWER Dip Direct		Description	
	10	14	16	20			22	24	26	28	32	34		38
F	101	110	110	120	1NIP	0								Triconed - no recovery
F	110	120	112	120	1P	0								5% recovery of Till
F	112	120	114	120	13IR	2								very rubbly - 25% recovery
F	114	120	117	120	1NIP	0								no recovery
F	117	120	119	126	31BIR									very broken & rubbly
F	119	126	121	122	Q11									very fractured pegmatitic bull gtz
F	119	126	124	120	31BIR									very broken to rubbly - recovery OK
F	124	120	127	127	131B									very broken - recovery OK
F	127	127	131	109	121B									mod. broken - recovery OK
F	131	109	133	128	121B									mod. broken
F	133	128	132	128	121R									mod. rubbly
F	133	128	137	122	31B1J				215	0910				very broken / fractures have orient 090/25
F	137	122	142	120	31BIT									very broken & poker chipping
F	142	120	152	120	31BIR									very broken & rubbly
F	144	120	148	125	1P	5								55% recovery
F	152	120	157	120	31BIR	5								very broken w/ local rubble - 52% recovery
F	157	120	161	129	121B8									mod to v. broken - 81% recovery
F	161	129	168	125	121B									mod. broken - good recovery
F	168	125	167	120	1N				110	01910				fracture - weathered w/ orient 090/10
F	168	125	171	120	131B									very broken
F	171	120	171	104	11G						919	91919		? 5-10cm gouges
F	171	104	171	109	11G		919	91919						
F	171	109	172	125	121B									mod. broken
F	172	125	171	123	121B									mod broken - good recovery
F	171	123	181	120	G13B									very broken w/ gouge - recovery OK
F	181	120	191	120	131B									very broken - recovery OK
F	191	120	181	120	1G									gouge zone
F	191	120	191	105	1G									gouge zone
F	191	105	191	125	131B									very broken
F	110	120	110	120	11B1J				210	21710				slightly broken on steep fractures
F	110	120	110	120	31B1J				110	0010				very broken on steep fractures
F	110	120	111	120	121B									mod broken

Fault Log

Code	FROM				TO (At)				Feature	REG	UPPER		INTERNAL		LOWER		Description
	10	14	16	20	22	24	26	28			32	34	36	38	40	44	
F	111100		111110					318J									very broken on steep fractures
F	111139		111176					X1J			110	0190					S= in S= bra related to steep fractures
F	111176		112165					R1313B									very broken w/ incipient rubble zones - 80% recovery
	112165		113115					13164									40% recovery in phyllite gouges

PROJECT VANGORDA DRILLHOLE NO. 87V-16 COORDINATES: N \_\_\_\_\_ DATE Nov 19 1987  
 LOCATION \_\_\_\_\_ HOLE SIZE N10 E \_\_\_\_\_ PAGE    of     
 LOGGER LCP + CUR. INCLINATION -90° 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.		
10																		TRICOMED - NO RECRY
12		0.2		0														
14		0.5		0														
17		0		0														
19		2.0		0.7														
22		3.5		0														
27		6.2		0														
32		5.3		0.5														
37		5.4		0.8														
42		4.5		0														
44		2.0		0														
48 1/2		2.2		0														
52		3.3		0														
57		2.5		0														
62		4.0		0														
67		4.8		1.0														
71		3.3		0														
76		5.4		0.4														
81		5.4		0														
86 1/2		5.2		0														
91 1/2		5.5		0														
96 1/2		5.7		2.2														
102		5.3		2.5														
107		5.6		2.6														
111		4.8		0.8														
116		5.1		3.1														
121		3.8		1.6														
126 1/2		2.6		0														
131.5		1.7		0														

Fig. 1. Typical rock mechanics core log.

87V-17

DIAMOND DRILL CORE LOG

Date: \_\_\_\_\_

Hole Number: 87V-17

Reference Fabric Orientation Diagram:

Project: 1987 Vangorda Drilling

Location: Vangorda deposit

Claim: \_\_\_\_\_

Terr. Plane Co-ords.: 6902973.26 N

594369.27 E

Grid Co-ords: 21E / +0.5

Elevation: 1152.49

All symmetry determinations looking

Total Depth: 120 feet (36.6m)

NW with 52 dipping

Inclination: -90° (vertical)

SW with dip azimuth 220.

Purpose: ore reserve definition + metallurgical samples

Reason hole Terminated: drilled through ore into phyllite

Logged by: CVR + LCP

Date(s) Logged: Nov 24 / 1987

Drilling Contractor: ARCTIC DIAMOND DRILLING

Hole Cemented: No Steel down Hole: No

Size	CORE From	To	Collar Cased and Capped:
<u>NW</u>	<u>0</u>	<u>12</u>	<u>No</u>
<u>NW</u>	<u>12</u>	<u>120</u>	

Assay Lab: MINE

Certificate No's: \_\_\_\_\_

Started: Nov 3/87 Completed: Nov 4/87



Code	From	To	Recov.	No.	Unit	Description
	10 14 16 20 22 24 26 28 30 34 35					
L	100	112.0 <sup>(3.7)</sup>		1	1#1	Triconed - no recovery
L	112.0	125.5 <sup>(7.3)</sup>		2	15B16	extremely weathered Very soft, extremely fissile, P52 foliated, extremely weathered, noncalcareous phyllite Abundant red-orange weathering coating on cut, S2, and fracture surfaces masks original phyllite colour. local "fresh" fragments have light grey S2 surface. Bottom 4-5" consists of unsorted hard fragments of these sulphides which probably have 4A affinities - these are "drilled" gabbles. Also recovered intervals of phyllite orange-weathered mud which may or may not be gouge - @ 17.3' and 16.5' - 2-3" thick. Core very broken & rubble. Only 2.2' core recovered
L	125.5	127.7 <sup>(8.4)</sup>		3	141614	± 8 micron slightly oxidized light tannish grey, noncalcareous, moderately hard, extremely high grade, thickly laminated to finely banded, baritic S <sup>+</sup> . Bands defined by variations in sphal, py, gal and assumed to define an S2. Estimated grade 18% (Pb+Zn). Total py content 60% w/ remainder barite + base metals Upper contact lost in rubble. Lower contact sharp into baritic S <sup>+</sup> . Very little surface oxidation seen on cut & broken surfaces. Magnetite locally occurs as dissem. fine black specks. Core intact / recovery good
L	127.7	150.2 <sup>(15.3)</sup>		4	141E1018	± # ± 1 micron (5C @) TRACE slightly oxidized Dominantly fine-grained, heavy yellow, very hard, massive py. Cc occurs locally in irregular clasts up to 3cm across. Abundant black magnetite occurs as diffuse black feathering streaks which thicken locally into magnetite clots. Streaks parallel & elongate in S2. At 33.0' 3" thick green and tan striped metabasite

CURRAGH RESOURCES INC.  
Lithologic LogDate: Nov 24/87 Logged By: CVR/LCP

Code	From	To	Recov.	No.	Unit	Description
	10 14	16 20	22 24	26 28	30 34	35
						with contacts parallel S2. White / tan shales fizz slightly in 20% HCl so assumed carbonate. Grey gts occur locally discrete in very diffuse intervals 20-30 cm thick. Very minor rounded white gts clasts present. Total py content 90%. Grade 1-2% (Pb+Zn). Core TOI-42 intact w/ good recovery / 42-44 mud bitum on steep fractures w/ good recovery / 44-EOI intact w/ good recovery. No faults. Very little weathering.
L	1510.2	1512.7		15	141E418	±# ±1 Very hard, brassy brownish yellow, poorly banded, locally slightly siliceous, massive pyritic S <sub>2</sub> . Unit characterized by more abundant base-metals in diffuse bands parallel S2. Locally small ss clasts w/ interstitial grey gts occur in bands <1 cm thick. Magnetite occurs as diffuse locally banded streaks parallel S2. Total py 80-90% w/ remainder gts-ss-magnetite-base metals. Grade 7-8% (Pb+Zn). Core intact w/ good recovery. No weathering.
L	1512.7	1611.8		16	141E118	slightly oxidized on fractures Very hard, homogeneous, fine-grained, brassy yellow, noncalcareous pyrite. Ubiquitous fine-grained grey gts interstitial to pyrite throughout. Gts content 15-20%. Top 0.5' magnetite occurs as thin black streaks. No go down DDH magnetite less abundant & present as black specks. No grade. Core intact TOI-55.5 / 55.5-EOI mud bitum along steep fractures commonly have whitish cream yellow oxidation coating. Recovery good except 57-EOI have only 2' core. No obvious reason for core loss.
L	1611.8	1617.8		17	141C1318	→ (4D08) 60140 TOI-65.2 is brassy greyish brown, hard, noncalcareous, moderately pyritic gtsite

CURRAGH RESOURCES INC.  
Lithologic Log

Code	From		To		Recov.		No.		Unit	Description	
	10	14	16	20	22	24	26	28			30
											Py occurs in abundant diffuse bands w/ dissem grt Bands parallel S2. thickness generally < 1cm Magnetite occurs as thin black streaks - commonly have small gray grt clasts w/in streaks. Bottom of unit grades rapidly into light gray & yellow striped, mod. hard, thinly banded, base-metal bearing grtite. Interval has less py & much greater sphal + ga. Red sphal forms thin diffuse bands which become more abundant at FOI. Locally pyrite - thin tannish green folia developed - some think they are arsenite - occur in 4" band centered @ 66'. Bottom contact sharp Core slightly below to intact Recovery good Grade overall 4-5% (Pb+Zn).
L	1617	8	1818	9				18	141C101	± 3 ± 8 (100 9) 96:04	slightly oxidized on fractures Very hard, brassy-yellow gray, noncalcareous, locally magnetic, moderately pyritic grtite. Thinly banded w/ bands defined by fine-grained py which are 30-40 cm thick at TOI and become thinner down DDH to about 5cm thick. Bands contain abundant fine-grained interstitial grt. & commonly contain subrounded to angular clots of magnetite, elongate parallel S2. Bottom 1/2 of unit has abundant foliaform magnetitic grt which is well fractured w/ significant coarse galena infilling fractures. Sphagite to gr veins contain minor, light green chlorite in thin laminae amoc w/ interstitial fine grained gray grt. Largest grt veins 0.4' across All "grade" confined to grt veins. Total py content 60-70% Grade 1-2% (Pb+Zn) TOI- 80 intact w/ good recovery / 80-83 mod. broken to locally very broken w/ good recovery / 83-85.3 intact w/ good recovery / 85.3-FOI very broken due to steep fractures. Tannish green yellow oxidations noted on fracture surfaces.

Code	From	To	Recov.	No.	Unit	Description
	10 14 16	20 22 24	26 28 30	34 35		
L	18189	31.4 1110130		19	1412101	slightly oxidized Mod. soft, locally "muddy", P52 foliated, non-aluminous, musc-chlorite phyllite and phyllite gouge. Unit is light tanish grey w/ green tinge. S2 surfaces have a similar colour. Locally in bands up to 1' thick green in host and S2 surfaces are a light grey. TOE - 104.2' is light greenish tan phyllite gouge / parallel S2 w/ angle 54° core axis. - bottom contact Top contact also parallel S2 w/ similar angle. Core has local deep zones & vugs due to weathering of carbonate. TOE - 97 extremely broken & rubblely w/ loss of 2' core. - core has locally in rubble zone 94.5'-96.0' / 97-98.9 intact w/ good recovery / 98.9 - EOE very broken & rubblely w/ thin gouge @ 101.6' (4-5" thick) parallel S2. host 1.5' core. No major fault
L	110130	32.5 1110166		110	1412112	4 ± 7 minor ± 6 Mod. soft to locally mod hard, locally CS2-foliated, dull greyish-green, locally brown striped, slightly dolomitic, musc-chlorite - qtz phyllite. S2 surfaces are shiny grey w/ greenish tinge. Unit has locally abundant st-py - base metal laminae. one scale < 5mm for intervals up to 1' thick. These bands separated by CS2-foliated, musc-chlorite phyllite. Dolomite occurs w/ qtz - S = laminae. Total S = 8-10% (Pb+Zn) = 2-3% Pa as thin streaks defining micro-lithons occur w/ qtz-py. Core mod. broken / recovery good
L	110166	36.0 1111180		111	1412161	± 2 minor ± 7 minor ± 4 ± 4 Mod. soft, dominantly CS2 foliated, pale tanish green, musc-chlorite phyllite. S2 surfaces are shiny pale green w/ minor local grey patches. Fine-grained grey qtz + dissem. ben sphal-py-galena-pa occur in thin laminae commonly defining micro-lithons. locally some laminae contain dissem. Dolomite. Total S = < 3-4%

DDH 87V-17  
2 8

CURRAGH RESOURCES INC.  
Lithologic Log

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Date: Nov 24/87 Logged By: CVR/LCP

Code	From				To				Recov.	No.	Unit	Description
	10	14	16	20	22	24	26	28				
												At 112.6'-113.1' 4kg gauge digging 30°/270 - upper contact lower contact lost in rubble. Core mod. broken to intact. Except for rubble zone 112.6'-115' lost about 1.5' core in this interval. Otherwise recovery OK.
L	111	180		<u>36.6</u> 112100					112	1101Q101		(5C#) 80:20 White pegmatitic buff qtz veins. Interbanded w/ qtz 0.5' thick soft, dk green and tan-white striped metabasite. Metabasite has diffuse tan dolomite laminae (white stripes) parallel S2. Chlorite from the dark green intervals. Both upper & lower contacts of metabasite N S2. Bottom contact has 1" of 4kg green chloritic phyllite. Core intact except for thin rubble zone in metabasite. Recovery good
												EOH



Code	From		To		Feature	SYM	S <sub>0</sub>		S <sub>1</sub>		S <sub>2</sub>		Description	
	Dip	Direct.	Dip	Direct.			Dip	Direct.	Dip	Direct.	Dip	Direct.		Dip
1	10	14	16	20	22	24	26	28	32	34	38	40	44	
S				8.5 12.7	0	P/S12						515	21210	spld bands in 4G
S				15.2 15.0	0	P/S12						512	21210	magnetic streaks in 4E8
S				20.1 16.6	0	P/S12						615	21210	base metal bands in 4D
S				29.4 18.0	0	P/S12						610	21210	py. banding in 4C
S				38.2 19.9	0	P/S12						612	21210	chlorite laminae in 4K0
S				33.8 11.1	0	C/S12			115	01010		611	21210	qtz-S <sup>+</sup> laminae in 4L6
S				26.4 11.9	5	P/S12						314	21210	chlorite laminae in 5C †
														EOH



PROJECT \_\_\_\_\_  
 LOCATION \_\_\_\_\_  
 LOGGER \_\_\_\_\_

DRILLHOLE NO. 87V-17  
 HOLE SIZE NQ  
 INCLINATION -90°

COORDINATES: N \_\_\_\_\_ E \_\_\_\_\_  
 ELEVATION \_\_\_\_\_

DATE Nov 24 1997  
 PAGE \_\_\_ of \_\_\_



**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.		
12		0		0														<i>Triconed</i>
17		1.4		0														
22		0.9		0														
27		1.6		1.3														
32		5.0		4.2														
37		5.3		4.3														
42		4.9		3.0														
47		5.4		3.7														
52		5.1		4.3														
57		5.2		3.0														
62		2.4		0.5														
67		5.0		2.0														
72		5.1		4.3														
77		5.0		2.3														
82		5.5		2.8														
87		5.5		2.0														
92		4.3		0.4														
97		3.0		0														
102		3.5		0.4														
107		5.0		0.8														
112		5.0		2.0														
115		1.9		0														
120		5.3		1.4														

Fig. 1. Typical rock mechanics core log.

87 V-18

DIAMOND DRILL CORE LOG

Date: \_\_\_\_\_

Hole Number: 87V-18

Reference Fabric Orientation Diagram:

Project: 1987 Vangorda drilling

Bentonite for overburden  
550 for coring

Location: Vangorda deposit

Claim: \_\_\_\_\_

Terr. Plane Co-ords.: 6902950.34 N

594347.47 E

Grid Co-ords: 21E / -0.5

Elevation: 1150.19

All symmetry determinations looking

Total Depth: 118 feet (36.0 m)

NW with 52 dipping

Inclination: -90° (vertical)

SW with dip azimuth 220.

Purpose: ore reserve definitions + metallurgical samples

Reason hole Terminated: drilled through ore into phyllite

Logged by: CVR

Date(s) Logged: Nov 18-19/1987

Drilling Contractor: ARCTIC DIAMOND DRILLING

Hole Cemented: No Steel down Hole: No

Size	CORE From	To	Collar Cased and Capped:
<u>NW</u>	<u>0</u>	<u>16</u>	<u>No</u>
<u>NQ</u>	<u>16</u>	<u>118</u>	

Assay Lab: MINE

Certificate No's: \_\_\_\_\_

Started: Nov 4/87 Completed: Nov 5/87

DDH 87V-18  
           2                              8

Diamond Drill Core Log

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	87V-18	1150.2	902950.3	594347.5		

Code	Drillhole	Depth	Zenith Angle	True Azimuth	Comments					
I	2	8	10	14	22	26	28	32	34	56
R	87V-18		100	180.0	0	0.0	AT COLLAR			
R										
R										
R										
R										
R										
R										
R										
R										
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R										
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R										

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

Code	From	To	Recov.	No.	Unit	Description
1	10 14 16	20 22 24 26 28 30 34 35				
	P	4.7 11 16		11	#1	TRICONED - NO RECOVERY
	11 16 0	6.2 12 10 5		12	#1	SILT Overburden mud, pebbles, + organic material. Mud is a light brown w no visible iron oxide coatings. No boulders corral. Recovered 2.8' of core, surprisingly good considering nature of the material.
	12 10 5	7.6 12 14 9		13	151D16	Moderately weathered. (10Q) Trace Soft, pale medium green, P <sub>S2</sub> foliated, noncalcareous, chl + musc. phyllite S <sub>2</sub> surface is a light greyish-green. Locally, patchy orange-yellow oxidation coatings on cut + broken surfaces, especially on top 1 1/2 feet of the unit. Bottom 4" of unit is a white resmatitic foliaform bull gtz vein w thin fractures infilled w fine grained Py. Broken surface of vein shows patchy orange iron staining. Core is very broken + locally is "poker chippy" Recy is GOOD.
	12 14 9	8.9 12 19 3		14	151B16	2 ± 8 minor (10Q9) Trace. slightly oxidized Medium grey, soft, noncalcareous, P <sub>S2</sub> foliated musc phyllite. S <sub>2</sub> surface is a shiny steel-grey. Abundant thin fractures // + X cutting S <sub>2</sub> are filled with gtz, yellow tan carbonate? and locally w very minor dess-py. Locally, tan-yellow oxidation on fractures and patches on S <sub>2</sub> surface. Bottom 3" of the interval is a foliaform white resmatitic gtz vein w fractures infilled w chl, yellow-tan carbonate? + minor gal + py. Locally, thin dark green chlorite laminations occur as splages to the gtz vein. Bottom <sup>top</sup> of gtz vein in contact w powdery white musc gouge + musc phyllite fragments. Only three feet

Code	From	To	Recov.	No.	Unit	Description
1	10 14 16	20 22 24	26 28	30 34 35		
						of core recovered. Core loss likely between 27' & FOI in gouge adjacent to the gtz vein. Core is very broken overall.
	12 19 3	13 12 6		15	141A14	(4EO) Trace. slightly oxidized on fractures Hard, noncalcareous ribbon banded, carbonaceous gtzite. Unit is S <sub>2</sub> foliated & local isoclinal folding is seen. Paper thin carbonaceous talia are developed between thicker gtz sulphide banding. Banding appears disrupted due to abundant thin <sup>X-cutting</sup> fractures filled w Sph, Py and minor marcussite?. Total S = 20-70. Sph >> Py Est Pb+Zn 15%. Bottom contact is lost in rubble, top contact of 4A4 is sharp into a hard, slightly porous, brassy yellow, massive Py band? 4EO is 2" thick & bottom contact is sharp against phyllite. Both contacts of the band appear to be // to S <sub>2</sub> . 4A4 shows slight yellowish oxidation in patches on X-cutting fracture surfaces only. 1' of core loss within the interval likely in rubble zone in top 10" of interval. Core is moderately broken to locally rubbly of FOI → 30'.
	13 12 6	13 15 7		16	141L1612 4	slightly oxidized on fractures Soft, <sup>noncalcareous</sup> pale greyish white w green tinge, dominantly PS <sub>2</sub> foliated, altered musc + chl phyllite. S <sub>2</sub> surface is a pale shiny olive green. Locally gtz sulphide bands on a scale of 1-5mm thick // to S <sub>2</sub> . Commonly, these bands have thin pale green chlorite selvages. Sulphides consist dominantly of Py + Gal. Sulphides locally fill X-cutting S <sub>2</sub> steep fractures. Locally, fractures are open or vuggy due to weathering of carbonates? S <sub>2</sub> surfaces locally show

CURRAGH RESOURCES INC.  
Lithologic Log

Code	From	To	Recov.	No.	Unit	Description						
1	10	14	16	20	22	24	26	28	30	34	35	
												patchy orange-red oxidation coatings. Total S <sup>=</sup> ≈ 5%. Core is moderately broken → locally very broken at 33 → 33.5 + 34 → 34.7. No obvious faults seen Recv. O.K.
	13.5	7	13.1	14.3	0		17		141614			±8 (10%) Trace (426) Trace. Light yellowish-tan, moderately hard, dominantly PS <sub>2</sub> foliated, thinly banded, noncalcareous, extremely high grade, massive baritic S <sup>=</sup> . Abundant bones + reddish brown Sph in thin bands up to 4 cm thick w̄ thinly dess <sup>-</sup> bc + py. Banding    to S <sub>2</sub> . Black mag occurs locally in thin streaks + small clasts which are dominantly elongate + aligned    to S <sub>2</sub> . Est total S <sup>=</sup> ≈ 65% remainder is dominantly Barite. Est Pb+Zn 18-20%. At 41.5' there is a 3" thick? X-cutting S <sub>2</sub> pegmatitic gtz vein. Vein trends    to core axis. A 2" thick <sup>soft</sup> altered chloritic phyllite selvage to the gtz vein trends similarly. Core is intact → locally moderately broken at 40-42' due to steep fractures. Recv. is good.
	14.3	0	13.9	14.5	7		18		141010			(4E468) (4L621 GOUGE) 35:35:30 sh oxidized TOI → 43.8 soft, Pissite, pale green, chl + musc altered phyllite + incipient gouge. Unit is very porous due to weathering of carbonates? Discrete py porphs dess <sup>-</sup> throughout. Qtz occurs in abundant white small subangular clasts w̄ dark green chlorite selvages. Upper contact is lost in powdery rubble. Lower contact is sharp into 4E468 and appears to be    to S <sub>2</sub> . This unit is non calcareous. 43.8' → 44.7' is a hard, homogeneous, non calcareous massive

CURRAGH RESOURCES INC.  
Lithologic Log

Code	From	To	Recov.	No.	Unit	Description
1	10 14 16	20 22 24	26 28	30 34 35		
						massive pyritic + minor baritic sulphides. Mag occurs in black specks dess <sup>-</sup> in mtx. Minor Barite finely dess <sup>-</sup> in mtx. Unit differs from higher 464 because of homogeneous texture and higher Py content. Est % S = 8.5% Remainder is Barite + Magnetite Est Pb+Zn 6-7% Unit grades sharply into 4D0. 44.7 → EOI light grey, very hard, thinly banded, non-calcareous gte. Abundant red sph occurs in thin 1-3mm bands // to S <sub>2</sub> from 44.7 → 44.2. Banding disappears lower in the unit. Fine grained py + marcasite? occurs finely dess <sup>-</sup> in fractures + thin laminations. Local patchy yellow orange oxidation is seen on fracture surfaces. Total S = 12% Sph >> Py Est Pb+Zn 8%.
						TOI → 43.8 core is very broken to rubble. Recov OK   43.8 → EOI core slightly broken. Recov OK.
	14 15 7	20.1 16 16 0		19	41 16 12 14	Unit very similar to unit #6 higher in this hole. Locally a crenulation cleavage is developed in gte & chlorite laminations. Total S = ~3-5%. Sulphides dominately Py + Gal. Core is very broken to locally rubble. Rubble + incipient gouge at 58 → 58.8. Not a significant fault. Rubble + gouge at 61 → 63. There is 2' of core loss between 58' → 63'. It is very difficult to determine more accurate location of core loss because of highly broken nature of the core. 63 → EOI Recov is O.K.
	16 16 0	21.2 16 19 6		110	15 18 16	± 2 minor. (10 Q) 85:15 Soft, P <sub>2</sub> foliated, non calcareous, dark grey, locally moderately

Code	From		To		Recov.		No.		Unit		Description		
	10	14	16	20	22	24	26	28	30	34		35	
											carbonaceous, musc. phyllite. S <sub>2</sub> surface is a medium steel grey. Paper thin carbonaceous folia are locally developed. At 67.5- a large white pegmatitic qtz clast? 10 cm long w/ long axis // to core axis. 66.8 → 67.2: incipient phyllite gouge w/ contacts // to S <sub>2</sub> . At 68.7 3" band of soft dark grey phyllite gouge // to S <sub>2</sub> . Core is very broken to locally rubble near gouge zones. Recovery is O.K.		
	16	19	6	21.3	17	11	4		111	14	11	46	slightly oxidized Hard to locally moderately soft, mottled dark grey + dull green, extremely fractured + silicified, altered musc + chl phyllite. Abundant sulphide stringers of fine grained Py + base metal. Qtz occurs in highly disrupted grey laminations associated with sulphides S <sub>2</sub> surface is a patchy grey + dull green. Some patchy yellow-tan oxidation coatings seen on S <sub>2</sub> surface. Top 5" of unit is a "bleached" tan and S <sup>=</sup> stringers are absent. Thin incipient gouge // to S <sub>2</sub> occurs in top 1" of interval. Upper contact sharp // to S <sub>2</sub> into dark grey moderately carbonaceous phyllite. Bottom contact is sharp // to S <sub>2</sub> into semi-massive S <sup>=</sup> . Total sulphides entire unit ≈ 20% mostly Py. Core is moderately broken, Recovery is Good. Unit is noncalcareous. No faults.
	71	4	24.2	17	9	3		112	4	11	4	slightly oxidized on fractures Dominated by a homogeneous, noncalcareous, fine grained, brassy yellow, slightly siliceous massive Py. Fine grained grey qtz occurs in thick diffuse bands which vaguely define S <sub>2</sub> .	

Code	From		To		Recov.		No.		Unit	Description		
	10	14	16	20	22	24	26	28			30	34
I											Py dominates these siliceous bands. Locally foliiform Qtz + coarse galena veins up to 1" thick are seen. Core is locally broken along steep fractures. Typically, fractures are porous due to weathering of carbonates. Fracture surfaces show patchy yellow-tan weathering coatings. Est total S= 90%. Est Pb+Zn 1-3%. Core is intact to locally slightly broken. Recry is good. No faults.	
L	17	19	3	18	16	5		11	13	14	13	tightly oxidized on fractures Very hard, noncalcareous, brassy yellow + grey, semi massive pyritic S=. Py occurs in thick // S <sub>2</sub> bands up to 6" thick. Gray Qtz occurs in similar bands in abundant cross-py. locally, core is broken along steep fractures X-cutting compositional banding. Patchy yellow-tan weathering is seen on fracture surfaces. Est total S= 65-70%. Remainder is quartz. No grade. Core is intact to locally slightly broken along steep fractures. Recry is good. No faults.
L	18	16	5	11	0	4	9	11	14	10	10	± 1 ± 9 minor (5B64) TRACE slightly oxidized on fractures Hard, brassy yellow, locally porous, dominantly homogeneous, locally moderately siliceous, massive pyritic S=. Similar to Unit #12 (-86.5) except for decrease in Qtz-rich intervals. Noncalcareous. Abundant steep fractures commonly infilled w/ tanish yellow carbonate (ankerite?) Core tends to be locally rubble along these fractures. 94.5-95 and 99.5-100.0 minor occurrences of soft, noncalcareous, light grey phyllite. Very minor splashy spy in veins in Qtz-rich intervals: locally ↔ Qtz in poorly defined diffuse greyish bands w/ abundant dissemin. py. Interval 101.3-102.6 S= brn of angular massive py clasts in

Code	From	To	Recov.	No.	Unit	Description
1	10 14	16 20	22 24	26 28	30 34	35
						matrix of grayish py + qtz. Paracryst along fractures (not defining a compositional banding) Fracture surfaces have patchy tan-yellow surface coating (weathering?) Top contact gradational into very pyritic shale. Bottom contact sharp // S <sub>2</sub> into altered phyllite. Total S = 85-90% (Pb+Zn) = 1-3% Core intact TOI-91 / 91-92 very broken / 92-93 intact / 93-95 very broken to rubble / 95-100.7 very broken & local rubble at 100 / 100-EOT intact Recovery OK. Fracture is 4EUB <sub>3</sub> A 15° to core axis.
	11014 9	<u>34.7</u> 1113 7		115	15A16B	(5B6 ± 8 minor) 60:40 Dominate unit is a soft S <sub>2</sub> foliated, noncalcareous dark grey and pale green striped carbonaceous phyllite. S <sub>2</sub> surface is typically a dark grey-black with some surfaces having a dull green tinge. This unit is interbedded with a light grey, dominantly PS <sub>2</sub> foliated, noncalcareous, soft, musc phyllite. S <sub>2</sub> surface is a shiny light grey. Minor light green, paper thin chlorite folia are locally seen. top 8" of unit is a light grey with slight greenish tinge, phyllite powder gouge. Remaining unit is very broken dominantly along S <sub>2</sub> foliation. 1 foot of core loss likely in gouge zone at top of interval.
	1113 7	<u>36.0</u> 1118 0		116	15D16	[4L6 weak] Soft, dominantly PS <sub>2</sub> foliated, noncalcareous chl + musc phyllite. S <sub>2</sub> surfaces are a shiny, patchy light green & grey. Top 1' of interval has a noted decrease in light green chlorite folia. S <sub>2</sub> surfaces are more grey than green during this interval. Last 2" of unit is a white powdery // to S <sub>2</sub>

DDH 87.V-1.B  
2 8

**CURRAGH RESOURCES INC.**  
Lithologic Log

Date: Nov 19/87 Logged By: CKR

Code	From				To				Recov.				No.				Unit	Description
	10	14	16	20	22	24	26	28	30	34	35							
																		phyllite gouge. TOI → 115' core very broken along $S_2$ / 115 → FOI core is slightly broken → intact. Recov. is O.K.
																		<del>EOH</del>

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
	12	19	3	13	12	6	1113190	1	12	8	14A	14	(4E0) TRACE	slightly oxidized on fractures	
	13	12	6	13	15	7	1113186	1	14	8	14L	16	24	" "	
	13	15	7	13	19	4	1113187	1	14	8	14G	14	±8		
	13	19	4	14	13	0	1113188	1	14	6	14G	14	±8		
	14	13	0	14	15	7	1113189	1	13	0	14D	14	(4E468) (4L621 GOUGE)	slightly oxidized 35:35:30	
	14	15	7	15	10	7	1113190	1	16	3	4L	16	12	14	
	15	10	7	15	15	3	1113191	1	14	6	4L	16	12	14	
	15	15	3	15	18	8	1113192	1	14	8	4L	16	12	14	
	15	18	8	16	16	0	1113193	1	15	2	4L	16	12	14	
	16	16	0	16	19	6	1113194	1	13	6	15D	16	± 2	minor	
	16	19	6	17	11	4	1113195	1	12	0	4L	11	12	14	6
	17	11	4	17	15	9	1113196	1	14	3	14E	11	14	slightly oxidized on fractures	
	17	15	9	17	19	3	1113197	1	14	5	14E	11	14	slightly oxidized on fractures	
	17	19	3	18	13	4	1113198	1	14	0	14C	13	"	"	
	18	13	4	18	16	5	1113199	1	14	1	14C	13	"	"	
	18	16	5	19	11	5	1114010	1	15	7	14E	10	±1	"	
	19	11	5	19	16	3	1114187	1	15	5	14E	10	±1	"	
	19	16	3	11	10	7	1114188	1	14	7	14E	10	±1	"	
	11	10	7	11	10	4	1114189	1	14	6	14E	10	±1	"	
							EOH								

DDH B.7.V.-1.B.  
2 8

# CURRAGH RESOURCES INC.

## Structural Log

Date: Nov 19/87 Logged By: CUR

Code	From			To			Feature	SYM	S <sub>0</sub>			S <sub>1</sub>			S <sub>2</sub>			Description	
	10	14	16	20	22	24			26	28	32	34	38	40	44	Dip	Direct.		Dip
S							PIS12							710	21210				Micaceous Foliation
S							PIS12							714	21210				" "
S							PIS12							715	21210				" "
S							PIS12							615	21210				P <sub>s</sub> banding in 4C
S							PIS12							716	21210				P <sub>s</sub> banding in 4E0
S							PIS12							718	21210				Chl foliations in 4D

Fault Log

Date: Feb 4/88 Logged By: LCP

Code	FROM		TO (At)		Feature	REG	UPPER Dip Direct		INTERNAL Dip Direct.		LOWER Dip Direct		Description	
	10	14	16	20			22	24	26	28	32	34		38
F		101		1160	NIP0									Triconed - no recovery
F		1160		12105	IP6									62% recovery in overburden
F		12105		1249	T138									very broken & locally poked chippy recovery good
F		1249		12193	13B6									very broken - 68% recovery
F		12170		12193	1G10									pt vein w/ gouges @ top & bottom
F		12193		13100	IR									rubbly
F		13100		13126	12B									mod. broken
F		12193		13126	IP6									69% recovery - loss likely in rubble zone @ top
F		13126		13157	12B									mod. broken
F		13130		13135	13B									very broken
F		13140		13147	13B									very broken
		14100		14120	J12B									mod broken on steep fractures
		14130		14138	3BIR									very broken to rubbly
		14138		14157	11B									slightly broken
		14130		14138	11G									incipient gouge
		14157		14160	13B									very broken
		15180		15188	R11G									rubble & incipient gouge
		16110		16130	R11G									rubble & incipient gouge
		16160		16196	R13B									very broken to locally rubbly
		16168		16172	11G				919	91919				incipient phyllite gouge
				16187	11G				919	91919				incipient phyllite gouge
		16196		1714	12B									mod. broken - recovery good
				16196	11G				919	91919				incipient gouge 11 52
		1714		17193	J11B									slightly broken on steep fractures
		17193		18165	J11B									slightly broken on steep fractures
		19110		19120	13B									very broken
		19130		19150	3BIR									very broken to rubbly
		19150		110107	13B									very broken
		110113		110126	IX				150	01010				S = bxa fracture 15° core axis
		110149		110156	1G									phyllite powder gouge
		110156		111137	13B									very broken
		110149		111137	IP8									88% recovery - 1' core loss likely at rubble/gouge at top

DDH 87V-18  
2 8

CURRAGH RESOURCES INC.

Fault Log

Date: Feb 4/88 Logged By: LCP

Code	FROM		TO (At)		Feature		REG	UPPER		INTERNAL		LOWER		Description
	10	14	16	20	22	24		26	28	32	34	38	40	
F	111137		111150		13B									very broken along S2
	111150		111180		11B									slightly broken to intact
			111180		11G				919	919				2" gouge // S2.

PROJECT \_\_\_\_\_ DRILLHOLE NO. 87V-18 COORDINATES: N \_\_\_\_\_ DATE Nov 19 1987  
 LOCATION \_\_\_\_\_ HOLE SIZE NQ E \_\_\_\_\_ PAGE     of      
 LOGGER \_\_\_\_\_ INCLINATION -90° 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		0		0														Terminated
22		4.4		0														
29		4.8		0														
33		3.1		0.4														
36		3.3		0.5														
41		5.3		4.4														
43		2.5		0.7														
48		5.5		0														
53		5.0		1.0														
58		5.7		0														
63		2.8		0														
66		2.3		0.5														
68		1.7		0.5														
73		4.8		0.7														
78		5.7		2.9														
83		5.0		3.5														
87		5.2		3.0														
92		5.2		2.5														
95		2.8		0.5														
100		4.4		0.5														
103		3.0		1.5														
108		3.3		1.4														
113		3.5		0														
118		5.3		0.9														

EDH

Fig. 1. Typical rock mechanics core log.

87V-19

DIAMOND DRILL CORE LOG

Date: \_\_\_\_\_

Hole Number: 87V-19

Reference Fabric Orientation Diagram:

Project: 1987 Vangorda Drilling

*Bentonite for overburden*

Location: Vangorda deposit

*550 for coring*

Claim: \_\_\_\_\_

Terr. Plane Co-ords.: 6902922.14 N

594452.02 E

Grid Co-ords: 24E / +1.5

Elevation: 1157.81

All symmetry determinations looking

Total Depth: 129 feet (39.3m)

NW with 52 dipping

Inclination: -90° (vertical)

SW with dip azimuth 220.

Purpose: ore reserve definition + metallurgical samples

Reason hole Terminated: drilled through ore into phyllite

Logged by: CVR + LCP

Date(s) Logged: Nov 16/1987

Drilling Contractor: ARCTIC DIAMOND DRILLING

Hole Cemented: No Steel down Hole: No

Size	CORE From	To	Collar Cased and Capped:
<u>NW</u>	<u>0</u>	<u>12</u>	<u>No</u>
<u>NQ</u>	<u>12</u>	<u>129</u>	

Assay Lab: MINE

Certificate No's: \_\_\_\_\_

Started: Nov 5/87 Completed: Nov 6/87



Code	From	To	Recov.	No.	Unit	Description
	10 14 16 20 22 24 26 28 30 34 35					
L	10 0	(4.6) 11 5 0		11	#	Terminated - No recovery
L	11 15 0	(7.1) 12 13 3		12	15B161	Rubble Limited recovery Unit assumed 5B6 because rubble dominantly noncalcareous, gray phyllite weathered to a yellow-orange. 1.5' recovery weathered on both SS and cut surfaces
L	12 13 3	(8.4) 12 17 6		13	14E1418	(10Q9) 80:20 extremely oxidized Dk brnsh yellow, moderately hard, poorly banded, moderately weathered, noncalcareous, pyritic 5" Abundant steep fractures w/ orange-red oxidation coating Banding irregularly defined by honey-colored sphalerite. Magnetite as diffuse, thin streaks parallel poorly defined P52 (?) Abundant orange-red oxidation on cut surface. Estimated grade 9-10% (Pb+Zn) Bottom 8" is hard, noncalcareous, dark gray, extremely galena rich, pyritic bull qtz vein. Galena occurs as fracture fillings in qtz with very fine py Fractures form 15% of qtz vein volume. Qtz has orange-yellow tint on cut surface from oxidation weathering. Qtz vein has large P52 foliated, silicified phyllite fragments up to 2" across - subangular shapes Fltn in phyllite frags is rotated Grade 12-15% (Pb+Zn) Core very broken w/ rubble at TOE (6") No major faults 4' core for 4.3' interval.
L	12 17 6	(10.0) 13 12 8		14	14K10124	extremely weathered Very soft to locally moderately hard, highly weathered, yellowish-brown, highly altered, locally siliceous muscovite phyllite. Local dark brown weathered fine py in thin bands assoc w/ thin bands of qtz - all 11 52

Code	From		To		Recov.		No.		Unit		Description
	10	14	16	20	22	24	26	28	30	34	
											Both cut & S2 surfaces highly weathered w/ orange-brown surface coating. Cleaner S2 surfaces are dull greyish w/ some minor green patches. Core very rubbly and broken. At 32.3' have thin phyllite mud gouge (2" thick) 40°/180°. Recov reasonable considering very broken.
L	132	8	15.6	151	1			15	141210	±6	extremely oxidized Unit homogeneously weathered to pervasive yellow-tan on cut and S2 surfaces. Noncalcareous, soft, P52 foliated, muscovite (locally chloritic phyllite). S2 surfaces masked by yellow-orange oxidation. Locally bright green fuchsite (?) patches were noted. Very little S= present. Interval 47-48.2 silified w/ py streaks and bands as described for Unit #4 (27.6-32.8). At 42.8'-43.8' obscure pale green, disrupted banding suggestive of metabasite. Core extremely broken to locally rubbly. Rubbly @ 34-35, 37-38, 42.5-43.5, 46.6-47.2. Recovery reasonable. No major faults.
L	151	1	16.2	153	2			16	1412112		moderately oxidized Noncalcareous, soft to locally hard, moderately weathered, Qtz-py banded, altered muscovite phyllite. S2 surfaces have weathered yellow-brown oxidation coating. Cut surface locally has some weathered coating. Qtz-S= bands range in thickness 41cm-15cm. Fresher S2 surfaces are light grey w/ patchy green. Core very broken & locally rubbly near S2'. Total S= 15-20%. Recovery OK.
L	153	2	18.7	161	4			17	1412101		GOUGE (4E18) TRACE Very soft, bleached white to locally grey phyllite mud. Top 1' fractured. 4L similar to last Unit #6 (51.1-53.2). Several fragments of

Code	From		To		Recov.		No.		Unit		Description
	10	14	16	20	22	24	26	28	30	34	
											massive pyritic S= in thin sub-interval look like S= clasts in gouge fault zone Recovery very poor - 1.8' core for the interval Significant fault Sulfide clasts similar to Unit # 3 (23.3-27.6)
L	161	4	23.3 713	1				18	41E41		± \$ ± 1 ± porous mod oxidized Hard to locally very hard, light brassy yellow to grey, poorly banded, locally siliceous, locally dolomitic, massive pyritic S= Top 5' very porous to raggy due to weathering of abundant dolomite in steep fractures From 166 - EOI increasing gtz occurs as large angular, white clasts up to 2cm across and finely dissem. in matrix. Qtz & yellow tan dolomite fill fractures Banding poorly defined by fine-grained py-rich intervals and by grey-fine-grained galena bands to streaks near EOI Total S= 75% remainder dolomite-gtz-base metal Grade 8-9% (Pb+Zn) Core recovery good. Core mod. broken to intact
L	1713	1	25.5 1813	8				19	41D1314	8	± \$ minor (4J44 ) TRACE (4C38) 50:50:TRACE Hard, non-calcareous, mottled black, grey, heavy yellow and purple, moderately pyritic gtz Dolomite as tannish yellowed clasts assoc w/ gtz 3-4mm across Py occurs in fine to locally coarse, diffuse, poorly defined bands w/ dissem. grey gtz Magnetite as black irregular streaks parallel S2(?) locally purplish & honey-colored sphal dissem in pyritic bands. Bottom 7-9" soft, porous, massive dk purplish brown sphal w/ dissem coarse py in gophes & aggregates Also has dissem angular gtz clasts < 1cm across. Total S= 30-40% 10-12% (Pb+Zn) Core intact - locally very broken along steep fractures - no faults Recovery OK

Code	From	To	Recov.	No.	Unit	Description
	10 14 16	20 22 24 26 28 30 34 35				
L	18138	19170		110	H1C131	± \$ (4E4H ± \$ minor) 90:10 slightly oxidized Hard, light grey and brassy-yellow, shaly, moderately pyritic gtzite Py at poorly defined, diffuse bands w/ dissem. fine-grained gtz Dolomite present locally in clasts < 1 cm φ. Est total S = 30% Est Pb+Zn 2-3% Interbedded in this unit are two one foot intervals (from 93' → FOI) of thickly laminated brownish-grey pyritic S =. Laminations defined by dark brown sph. Margins of the massive S = intervals are diffuse into pyritic gtzite. Minor dolomite occurs in small clasts < 0.5 cm φ. Est total S = 75%. Est Pb+Zn 9%. Slight patchy weathering on broken surfaces. No weathering on cut surface. Core is intact to locally broken along steep fractures. No faults. Recovery is GOOD.
	19170	11044		111	H1E41	8± \$ (5C4*) 90:10 slightly oxidized on fractures Hard, purplish-grey, brassy yellow, and brown banded, moderately siliceous, magnetic massive py + base metal sulphides. Abundant purplish-brown sph in thin feathery bands // to S <sub>2</sub> . Magnetite occurs as fine black specks in the mtx & in thin feathery black streaks. Py occurs diffusely, less in the matrix and locally, is concentrated in bands generally < 1 cm thick. Dol thinly dissem in py mtx & in small clasts < 3mm φ and is associated in py rich bands. Est total S = 70-80% Est Pb+Zn 15-18%. At 101.9 → 103 a soft, slightly calcareous (dolomite? ankerite?) mottled green + white altered chlorite + musc metabasite. S <sup>2</sup> surface is a patchy green + grey. The unit is highly broken due to

Code	From	To	Recov.	No.	Unit	Description
1	10 14 16	20 22 24	26 28	30 34 35		
						a steep fracture. Contacts are sharp into semi-massive sulphides Contacts appear to be // to S <sub>2</sub> . Core is intact to locally moderately broken at the metabasite unit + box margins where the core was smashed to fit. No faults. Recovery is good. No surface weathering seen. Slight patchy yellow oxidation locally on fracture surfaces.
	11 10 4 4	33.2 11 10 19 0		112	141C10	Very hard, poorly banded, light grey to locally moderately pyritic, noncalcareous, gte. P <sub>3</sub> in poorly defined diffuse bands & filling thin fractures in gte. Local steep fractures filled with yellow- tan dolomite. No weathering seen on broken or cut surfaces. Est total S = 25% almost all py. Est PbZn 1-2%. Core is intact, Kern Good. TOJ → 108. 108 → 109 core is very rubblely due to steep fractures? Note: From 108 → 115 there is 6' of core loss possibly due to mislatch or to major fault. Recovered pieces are dominantly 4C with some 4L white pyritic gouge recovered. Due to uncertainty of fault location because of core loss, or because of possibility of mislatch, the lower contact of this unit has been placed in the rubble above the first occurrence of phylitic gouge fragments
	11 10 19 0	36.9 11 12 11 0		113	141L1016	± 1 ± 2 minor (4L0 GOUGE) 60:40 Moderately soft → locally hard dull grey + green striped altered musc + chl phylitic. S <sub>2</sub> surface is grey to green patches. Locally minor class py in gte laminations // to S <sub>2</sub> .

Code	From	To	Recov.	No.	Unit	Description
	10 14 16 20 22 24 26 28 30 34 35					
						From TOI → 116.5 core is soft grey white phyllite fragments + gouge. Top 4" contains fragments of 4C similar to unit above. Only 2 1/2' core recovered likely due to major fault. At 121.2 → 123 core is very soft grey white phyllite fragments + incipient powders, phyllite gouge. No orientation possible, combed lost in rubble. Recov. O.K. From 116.5 → BOI recov. is good.
L	11211	11214	0	114	14E1018	±1 ± 1/2 (4L12) TRACE sl. oxidized on fracture surfaces Mod. hard, brassy yellow, noncalcareous, locally slightly siliceous, massive py Magnetite occurs in thin beaded streaks elongate in S2 Unit poorly banded - banding defined by fine-grained massive py bands up to 2" thick locally has tan yellow dolomite clasts generally < 1cm diam. in py. At 122.2'-122.5' mod. hard, P52-foliated, light grey to locally pale green musc-chlorite altered phyllite. Qtz occurs in thin laminae w/ finely disseminated py. S2 surfaces is dull grey w/ green patches. Total S <sup>2</sup> = 85% (Pb+Zn) = 2-4% Core mod. broken / no oxidation on cut surface but has orange oxidation, weathering on fracture surfaces Recov OK - No faults
L	11214	11219	0	115	14K1211	6 minor Mod. soft to hard, qtz-S <sup>2</sup> banded, altered musc-chlorite phyllite. Banding defined by fine-grained py disseminated in qtz < 1mm - 1cm thick. S2 surfaces patchy grey & green. Chlorite occurs in thin dull green laminae Phyllite P52 foliated. Noncalcareous Core very broken Recovery OK Total S <sup>2</sup> = 5% - dominantly py
						EOH

ASSAY LOG (SAMPLER'S COPY)

CODE	FROM		TO		SAMPLE	INTR.	REC (m)	UNIT		DESCRIPTION		
	10	14	16	20				22	26		28	30
P	123	3	127	6	30666	1	144	4E	181	very oxidized		
P	127	6	132	8	30667	1	162	4L	124	very oxidized		
P	151	1	153	2	30668	1	123	4L	121	mod. oxidized		
P	153	2	161	4	30669	1	127	4L	14E	gauge		
P	161	4	167	0	30670	1	170	4E	141	porous mod. oxidized		
P	167	0	173	1	30671	1	164	4E	141	mod. oxidized		
P	173	1	178	0	30672	1	154	4E	1348			
P	178	0	183	8	30673	1	142	4D	1348			
P	183	8	188	0	30674	1	150	4C	131	slightly oxidized		
P	188	0	193	0	30675	1	150	4C	131	slightly oxidized		
P	193	0	197	0	30676	1	146	4E	1C1	{ 4C3 (4E4) 50:50 } slightly oxidized		
P	197	0	110	03	30677	1	135	4E	14118	slightly oxidized on fractures		
P	110	03	110	44	30678	1	138	4E	14118	slightly oxidized on fractures		
P	110	44	110	90	30679	1	147	4C	101			
P	110	90	111	180	30680	1	127	4E	1L4	4LO gauge (4E2)		
P	111	180	112	110	30681	1	125	4L	1016			
	112	110	112	140	30682	1	128	4E	10181	slightly oxidized on fractures		
										EOH		





PROJECT \_\_\_\_\_ DRILLHOLE NO. B7V-19 COORDINATES: N \_\_\_\_\_ DATE Nov 16 1987  
 LOCATION \_\_\_\_\_ HOLE SIZE NQ E \_\_\_\_\_ PAGE    of     
 LOGGER \_\_\_\_\_ INCLINATION -90 ELEVATION \_\_\_\_\_



**PITEAU & ASSOCIATES**  
 GEOTECHNICAL CONSULTANTS  
 VANCOUVER CALGARY  
**GEOTECHNICAL CORE LOG**

DEPTH (TD)	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.	
15		0		0													Tricored
18		1.3		0													
23		0.3		0													
27		3.1		0													
30		3.2		0.6													
33		3.0		0													
38		5.0		0													
43		4.3		0													
47		4.5		0													
52		4.7		0													
58		2.0		0													
63		2.8		0.8													
67		4.8		1.5													
70		3.0		2.3													
72		1.7		0.4													
78		5.3		2.4													
83		3.0		1.3													
88		5.2		3.5													
93		5.1		2.2													
98		5.2		2.2													
103		4.6		3.0													
108		5.0		4.0													
115		1.0		0													
118		1.8		0													
123		4.8		0.8													
128		5.0		0.5													
129		0.9		0													

Fig. 1. Typical rock mechanics core log.

EOH

87V-20

DIAMOND DRILL CORE LOG

Date: \_\_\_\_\_

Hole Number: 87V-20

Reference Fabric Orientation Diagram:

Project: 1987 Vangorda Drilling

*Bentonite for overburden  
550 for coring*

Location: Vangorda deposit

Claim: \_\_\_\_\_

Terr. Plane Co-ords.: 6902881.95 N

594407.34 E

Grid Co-ords: 24E / -0.5

Elevation: 1155.27

All symmetry determinations looking

Total Depth: 121 feet (36.9 m)

NW with 52 dipping

Inclination: -90° (vertical)

SW with dip azimuth 220.

Purpose: ore reserve definitions + metallurgical samples

Reason hole Terminated: drilled through ore into phyllite

Logged by: CVR + LCP

Date(s) Logged: Nov 13-14 / 1987

Drilling Contractor: ARCTIC DIAMOND DRILLING

Hole Cemented: No Steel down Hole: No

Size	CORE From	To	Collar Cased and Capped:
<u>NW</u>	<u>0</u>	<u>16</u>	<u>No</u>
<u>NQ</u>	<u>16</u>	<u>121</u>	

Assay Lab: MINE

Certificate No's: \_\_\_\_\_

Started: Nov 6/87 Completed: Nov 6/87

CURRAGH RESOURCES INC.

DDH 87V-20  
        2                    8

Diamond Drill Core Log

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	87V-20	1115.13	902882.0	594407.3		SR						

Code	Drillhole	Depth	Zenith Angle	True Azimuth	Comments					
I	2	8	10	14	22	26	28	32	34	56
R	87V-20	100	180.0	10.0	AT COLLAR					
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

Code	From				To				Recov.				No.				Unit	Description
	10	14	16	20	22	24	26	28	30	34	35	1	2	3	4			
L		10			<sup>4.9</sup> 1160											#	Overburden TRICONED	
L		116			<sup>6.7</sup> 12120											12	151B161	Extremes weathered Orange soft, decomposed, noncalcareous chl musc phyllite, almost completly disintegrated to an orange mud with vague relicts of phyllitic texture. Core recovery is
L		12120			<sup>9.9</sup> 13125											13	151B161	moderately weathered Gss, non calcareous phyllite incipiently decomposed to above material. 50% orange-brown weathered with much yellowish orange-brown coating on fractures. Similar to above material only less decomposed. S2 foliation visible & recognizable as contacted w/ last unit. Contacts gradual & obscured by lesser weathering. Core very rubbley - recovery very good considering material. At bottom 27-32 have lost 3' core - loss appears associated w/ gte vein
L		13125			<sup>13.3</sup> 14135											14	151B161	slightly weathered Soft, light grey to locally dark grey, PS2 foliated, noncalcareous, slightly weathered phyllite. S2 surfaces are shiny, light silvery grey w/ local patchy light yellow to yellow-orange oxidations. Also locally light yellow to yellow-orange oxidations on ext surface & fractures. Similar to units above only less weathered & oxidized. TOI- 35 core intact w/ good recovery / 35-42 very broken & rubbley 37-42. 0.5' @ 37' of mud gauge interval 37-42 only has 2" core. 42-EOI core intact w/ good recovery

Code	From			To			Recov.			No.			Unit	Description
	10	14	16	20	22	24	26	28	30	34	35			
L	14	13	5	16.3 15	3	4				15			15B1612	Soft, med gray to locally dark gray, C52-foliated, noncalcareous, moderately carbonaceous phyllite. S2 surfaces are dark, steely gray & leave grayish residue on fingers. Numerous thin steep fractures containing locally fine py and possibly arkose. Only very minor oxidation / weathering on cut and S2 surfaces. Core med broken w local med rubble zones @ 45' and 46' - about 7" thick. No obvious or major faults. Recovery OK.
L	15	13	4	23.1 17	5	8				16			14E14B ±# (4E4# ±8) (4G4 ±# ±8) (4E08 ±#) 48:18:21:13	Very mixed unit. Barren, brassy yellow pyritic S <sup>2</sup> , light tannish brown baritic S <sup>2</sup> , and very high grade, dark brown, micro buckshot pyritic massive S <sup>2</sup> . All units except barren 4E are slightly to moderately calcareous // TOE - 58 baritic S <sup>2</sup> , w/ local thin calcareous bands (cc dissem in matrix). Abundant honey-calcareous sphal-rich bands up to 4" thick. Magnetite in bands & clasts up to 1cm across. Small to large clasts of foliated ptite. One large <sup>angular</sup> ptite clast has S2 oriented across the compositional banding of the baritic S <sup>2</sup> . Estimated 15-16% (Pb+Zn) Py content 30% // 58-61 locally slightly magnetic, fine-grained, massive py which is locally slightly calcareous in disrupted bands. Margins gradational over short distance. // 61-65 extremely high grade, locally micro-buckshot textured, very calcareous, pyritic S <sup>2</sup> . Poorly defined py-sphal. banding locally. Local subangular gray ptite clasts (minor) 17% (Pb+Zn). Cc disseminated in matrix & in disrupted laminae and bands. Py content 70-80% // 65-E0E very magnetic, locally calcareous in bands, medium grade pyritic S <sup>2</sup> . Magnetite fine bands & clasts up to 1cm across. Locally large clasts of 4A - S2 of clast differs 90° from S <sup>2</sup> banding - irregular margins & numerous fractures infilled

CURRAGH RESOURCES INC.  
Lithologic Log

Date: Nov 13/87 Logged By: CVR/LCP

Code	From		To		Recov.		No.		Unit		Description
	10	14	16	20	22	24	26	28	30	34	
											by py One clast @ 66' 8"-9" thick Irregular, coarser grained, gte-cc rich bands up to 1" thick. Grade estimate 7-8% (Pb+Zn) 80% py w/ rest being cc-mag-gte-base metals Core mod. broken to intact. One rubbery interval @ 64.5'-65' Recovery OK
L	715	8	(25.9) 1813	4					17	141A141	↗ Clast similar to next unit.
											Hard, brown & black banded, non-calcareous, high-grade, carbonaceous, gte. S2 folia are dull dark grey to black Qtz-S= bands have abundant red sphal. w/ lesser finely disse. py up to 2mm thick. Locally microlithon texture. Total S= 25% Sphal >>> py 15% (Pb+Zn) - mostly sphalerite. Intact to mod. broken 79-80 very broken due to steep fracture. No faults.
L	1813	4	(28.1) 912	3					18	141A101	→ (4CO) 90:10
											Similar to unit above except for absence of red sphal in gte-S= bands Sphal replaced by py S2 surfaces are shaly black - darker than above unit. Total S= 15% dominantly py. Grade 3-4% Pb+Zn. Core mod. broken. At 88.7-89.3 soft, black mud zone. Top contact parallel S2. Bottom contact also parallel S2. Prob not major because same unit on both sides. Bottom 1' of unit gteite becomes light grey w/ silvery grey micromass S2 surfaces. Bottom 1' is 4C. Recovery is OK
L	1912	3	(33.9) 1111	1					19	141K1016	2 ± 1
											Soft, pale green to locally light grey, non-calcareous, muscovite-chlorite phyllite. S2 surfaces are pale greyish green and locally a dull

Code	From	To	Recov.	No.	Unit	Description
I	10 14 16	20 22 24	26 28	30 34 35		
						silvery grey Grey colour predominates down to about 97' Coarse py occurs in bands and porphy Bands are up to 3cm thick White pegmatitic qtz veins @ 96-96.5 appears foliaform Local qtz laminae & bands make this phyllitic band & siliceous in short intervals (i.e. ± 1). Lower contact gradational over short distance Upper contact steep against strike w/ some gouge developed Core very broken w/ local rubble. TOI- 93.7 fault gouge (grey) Bottom contact 34° core axis No orientation possible relative to S2. At 94.6-96 very rubblely due to steep fractures 98-102 2' core tabe w/ light greenish grey gouge mid in centre of interval Bottom contact 56° core axis Except for this interval recov OK.
L	111111	<sup>36.9</sup> 112110		110	5TB612	± 4 Moderately soft, dark grey, noncalcareous, dominantly P52 foliated phyllitic Moderately carbonaceous. locally contains thin fine grained py bands parallel S2. - Py bands locally porous & wiggly - likely due to carbonate weathering Contains steep fractures up to 1cm thick infilled w/ very soft creamy carbonate which is most likely ankerite + qtz. S2 surfaces are dark shiny grey to black. Contains 2' at bottom which is lighter grey - S2 folia are light silvery grey for this portion. TOI- 118 slightly broken / 118-EOI core very rubblely but no gouge Recovery OK.
						EOH

ASSAY LOG (SAMPLER'S COPY)

CODE	FROM		TO		SAMPLE	INTR.	REC (m)	UNIT	DESCRIPTION
	10	14	16	20					
P	1534	1582	310351			158	41G41		
P	1582	1614	310352			132	41E10181		
P	1614	1646	310353			137	41F41		
P	1646	1678	310354			132	41E1181		
P	1678	1715	310355			143	41E1181		
P	1715	1758	310356			145	41E1181		
P	1758	1810	310357			143	41A141		
P	1810	1834	310358			136	41A141		
P	1834	1878	310359			152	41A101		
P	1878	1923	310360			153	41A101		







DIAMOND DRILL CORE LOG

Date: \_\_\_\_\_

Hole Number: 87V-21

Reference Fabric Orientation Diagram:

Project: 1987 Vangorda drilling

Bentonite for overburden  
550 for coring

Location: Vangorda deposit

Claim: \_\_\_\_\_

Terr. Plane  
Co-ords.: 6902862.68 N

594384.68 E

Grid  
Co-ords: 24E / -1.5

Elevation: 1153.13

All symmetry determinations looking

Total Depth: 160 feet (48.8m)

NW with 52 dipping

Inclination: -90° (vertical)

SW with dip azimuth 220°.

Purpose: ore reserve definition + met. samples

Reason hole  
Terminated: drilled through ore into phyllite

Logged by: LCP + CVR

Date(s) Logged: Nov 14/1987

Drilling  
Contractor: ARCTIC DIAMOND DRILLING

Hole  
Cemented: No Steel  
down Hole: No

Size	CORE From	To	Collar Cased and Capped: <u>No</u>
<u>NW</u>	<u>0</u>	<u>16</u>	
<u>NQ</u>	<u>16</u>	<u>160</u>	
_____	_____	_____	

Assay Lab: MINE

Certificate No's: \_\_\_\_\_

Started: Nov 7/87 Completed: Nov 8/87

CURRAGH RESOURCES INC.

DDH 87V-21  
2 8

Diamond Drill Core Log

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	87V-21	11153.11	902862.7	594384.7		5.2

Code	Drillhole	Depth	Zenith Angle	True Azimuth	Comments	
I	2	8 10	14 22	26 28	32 34	56
R	87V-21	100	180.0	0.0	AT COLLAR	
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

Code	From				To				Recov.	No.	Unit	Description	
	1	10	14	16	20	22	24	26					28
		10			3.0 11	10	0				1	#	TRICONED - NO RECOVERY - Overburden Boulders + Muc
		11	0		7.5 12	14	5				2	141L12	Extremely oxidized Soft, non calcareous, yellowish brown - orange brown weathered phyllite. Cut surface a light yellowish-tan. S <sub>2</sub> folia typically are rusty-brown in patches. Extreme brown surface coatings are presumed to represent highly oxidized py bands + stringers. Musc visible on S <sub>2</sub> surfaces. Core is very broken + rubble. 10-20' 4' of core recovered   20'-22' 1.3' of core - totally light brownish yellow mud GOUGE?   22-EOI 0.9' of a similar light yellow phyllitic mud GOUGE?
		12	14	5	11.2 13	16	8				3	141E10	SAND ± 4 extremely oxidized Dark, brassy, very soft, noncalcareous pyrite sand. Appears to be medium grained + very friable. Very minor cobble 10cm porous intervals of 4EO. No visible grade. 22-27 2' of core, contact with overlying unit is 1/2 way through this interval 27-32 3' core   32-37 2.3' core. No yellowish brown oxidation surfaces. Recovery is poor.
		13	16	8	5.2 5	10	0				4	151B16	± 4 minor slightly oxidized Noncalcareous, light grey → light creamy grey, soft phyllite. S <sub>2</sub> surfaces are silvery grey → grey cream. Isolated pyrite poops are weathered to light orange-yellow + stain surrounding phyllite. Entire unit is very broken + very rubble. Extensive incipient gouge which may be related to weathered nature of the core.

Code	From	To	Recov.	No.	Unit	Description
1	10 14 16 20	22 24 26 28	30 34 35			
						37-42' 3.5' core / 42-47 2.7' core / 47-50 1.3' core. Recovery is poor.
	5100	18.5 6106		5	5B16	→ (5862) 10:90 Soft, non calcareous $PS_2 + CS_2$ foliated phyllite. Top 1.5' is a pale silvery grey with light silvery-grey $S_2$ surfaces. Remainder of the unit is a medium grey, $PS_2$ foliated phyllite w/ medium → dark steely grey $S_2$ surfaces. Upper contact is where phyllite is no longer rubble, lower contact sharp against $S^=$ . TOI → 51.5 core intact recy good / 51.5 → 54 very rubbly w/ gouge, is weathered & only contains 1.4' core. 54-EOI moderately broken, Recy O.K. This unit presumably co-relates to unit # 5 in 43.5 → 53.4 in 87V-20.
	6106	19.5 6140		16	14E14	Porous. + $\$$ minor $\pm 6$ slightly oxidized Brass yellow → dark brass yellow, thickly laminated pyritic massive $S^=$ . Laminae delineated by dark brown sph rich intervals & ferric honey colored sph + Ra intervals. Cut surface is pitted probably due to weathered carb. Locally minor small dol clasts w/ minor dol dess <sup>-</sup> in matx. Est Pb+Zn 10%. TOI → 62.3' is intact good recy. 62.3 → EOI very broken recy, reasonable broken along comp banding & steep fractures. Core is spread out.
	6140	20.3 6182		17	14G14B	$\pm \$$ minor (506) trace. Light yellowish-grey → brownish grey, poorly banded Mn

Code	From		To		Recov.			No.			Unit	Description
	10	14	16	20	22	24	26	28	30	34	35	
												grained Ba s <sup>2</sup> - Local intervals w/ small dol clasts & fine grained dol sparsely desc <sup>-</sup> in matrix. Tiny black specks of mag desc <sup>-</sup> throughout. Good honey coloured sph. Est Ph <sub>2</sub> Zn 15% comb. Est Py 40%. Near 67' thin bands of dark green & white striped chl phyllite w/ pegmatitic white gtz bands. Core is very broken. w/ some steep fractures locally developed. Recovery is O.K.
	6182		<u>24.9</u> 816					18	141E	18	±6 ± 8	(566) (440) (5A619) ALL MINOR
												Dominately a thickly laminated, moderately hard, non calcareous to slightly dolomitic; light brassy yellow pyritic s <sup>2</sup> . Mag forms thin discontinuous streaks // to compositional banding. Banding demarcated by variations in Ba, honey coloured sph, dol, & mag. Upper most part of unit contains thin dark green chl phyllite intervals. 74.7 → 75.9 a light grey, non calcareous, soft, musc phyllite. S <sub>2</sub> folia light silvery grey. Looks like it was originally a pelite. Near 8' a 10cm interval of hard carbonaceous phyllite like the next unit. Est Ph <sub>2</sub> Zn 12% Py content 70-80%. Core is generally moderately broken. Tends to be very broken in phyllitic intervals. Recovery is O.K.
	816		<u>29.4</u> 971					19	5A11	1916		Moderately hard → hard non calcareous, PS <sub>2</sub> foliated, black & white thickly laminated phyllite. Laminae give a "striped" appearance. S <sub>2</sub> folia are dark shiny grey & have

Code	From				To				Recov.				No.				Unit				Description		
	10	14	16	20	22	24	26	28	30	34	35	10	14	16	20	22	24	26	28	30		34	35
																							a smudge on your fingers. P <sub>2</sub> occurs dominantly as fine grained X-cutting fracture infills. Core is moderately → very broken. Est total S = < 5%. Recy is reasonable 90-95%. This unit will co-relate to well developed ribbon banded 4A 76-92 in hole 87V-20.
	97	1																		110	14E10	8 ± 1 ± 6 (SA61) 90:10	Fine grained brass, yellow py. Locally thickly laminated in laminae defined by minor dol + mag streaks. Locally it contains streaks + bands of white peg-qtz, especially at top of interval. 98.1 → 99.1 contains thin bands of carbonaceous siliceous, carbonaceous, non calcareous phyllite like unit above. Core intact good recy 101 101-102 very broken + rubble in 1/2 to 1/2 feet of recy. (50-55% recy)
	110	2	0																111	14C15	Medium dark grey very hard, ribbon banded non calcareous qtzite well developed 4A texture in qtz-pyrite bands in a fine grained grey mta. S <sub>2</sub> folia are dark grey. Est % P <sub>2</sub> 15%. Est Pb Zn 0%. PS <sub>2</sub> foliated. 101 → 103.5 intact, recy reasonable 103.5 → 104 very broken → rubble, recy o.k. Possible fault at TOI because of lost core between 101 + 102.		
	110	4	0																112	14K10	GOUGE	Soft, noncalcareous, pale grey-creamy white - musc phyllite + phyllitic gouge mud.	

Code	From				To				Recov.				No.				Unit				Description		
	10	14	16	20	22	24	26	28	30	34	35	10	14	16	20	22	24	26	28	30		34	35
																							101→108 1' of core   108→112 0.9' core   112→117 2' core   117→122 2' core. Recov very poor. Presumably a significant fault.
	11220															113				141610			± 2 minor Soft, non calcareous, PS <sub>2</sub> foliated, pale cream → off white phyllite, S <sub>2</sub> folia are silvery-white. Locally it contains 1cm thick streaks + bands of dark brown - fine grained py. // to S <sub>2</sub> . Minor pegmatitic qtz TOT → 126' very broken + rubbly. Recov reasonable. 126' → 128' very rubbly w gouge. 15' core   128 → 132 moderately broken   132 → 134 very broken + rubbly w gouge. Recov O.K.   134 → EOI moderately broken w short rubbly intervals. Recov is O.K.
	114160															114				151616			Noncalcareous, moderately soft → moderately hard, PS <sub>2</sub> foliated, bluish phyllite. S <sub>2</sub> surfaces are shiny → dull black + strongly marked fingers. Contains minor Py in thin X-cutting fractures. Minor siltstone bands present locally. Unit is very broken + rubbly w incipient gouge developed. Recov 95%. Upper contact is sharp, marked by highly disrupted S <sub>2</sub> + about 10 cm of gouge. Dip angle 50° to core axis.  EOH ~~~~~

ASSAY LOG (SAMPLER'S COPY)

Date Nov 14/87 Sampled by \_\_\_\_\_

CODE	FROM			TO			SAMPLE	INTR.	REC (m)		UNIT	DESCRIPTION						
	10	14	16	20	22	26			28	30			32	34	36	40	42	
		12	4	5		13	2	0	30	36	1		14	4	14E10	SAND	extremely oxidized	
		13	2	0		13	6	8	30	36	2		12	2	14E10	SAND	extremely oxidized	
		13	6	8		15	0	0	30	36	3		18	9	15B16		slightly oxidized	
		15	0	0		16	0	6	30	36	4		10	7	15B16			
		16	0	6		16	4	0	30	36	5		14	9	14E14		slightly oxidized	
		16	4	0		16	8	2	30	36	6		15	8	14E18			
		16	8	2		17	2	6	30	36	7		14	7	14E18			
		17	2	6		17	7	0	30	36	8		15	8	14E18			
		17	7	0		18	1	6	30	36	9		15	0	14E18			
		18	1	6		18	6	0	30	36	10		15	1	5A11916			
		18	6	0		18	8	5	30	36	11		14	7	5A11916			
		18	8	5		19	3	3	30	36	12		15	0	5A11916			
		19	3	3		19	7	1	30	36	13		15	0	5A11916			
		19	7	1		11	0	2	0	30	36		15	2	14E10			
		11	0	2	0		11	0	4	0	30	36		12	5	14C15		

DDH B7V-21  
2                          8

CURRAGH RESOURCES INC.  
Structural Log

Date: Nov 24/87 Logged By: LER & CUR

Code	From		To		Feature	SYM	S <sub>0</sub>		S <sub>1</sub>		S <sub>2</sub>		Description	
							Dip	Direct.	Dip	Direct.	Dip	Direct.		
I	10	14	16	20	22	24	26	28	32	34	38	40	44	
S				9.8 13.2	P512							7.2	21210	Comp banding in 4E
S				17.4 15.7	P512							6.7	21210	Micaceous foliations
S				18.9 16.2	P512							7.2	21210	Comp banding in 4E
S				23.5 17.7	P512							6.4	21210	" " " "
S				27.7 19.1	P512							7.1	21210	Micaceous foliations
S				30.5 11.0	P512							7.8	21210	Comp banding in 4E
S				37.8 11.2	P512							7.8	21210	Micaceous foliations
S				42.4 11.3	P512							5.9	21210	Micaceous foliations
S				45.7 11.5	P512							6.8	21210	" "
S				48.8 11.6	P512							6.5	21210	" "

Fault Log

Code	FROM		TO (At)		Feature	REG	UPPER Dip Direct		INTERNAL Dip Direct		LOWER Dip Direct		Description	
	10	14	16	20			22	24	26	28	32	34		38
F	101	1100	1100	1100	WIP	0								Triconed - no recovery
F	1100	1245	1245	1245	3BIR									very broken & rubble
F	1100	1200	1200	1200	IP	4								40% recovery
F	1200	1220	1220	1220	IG	6								65% recovery of mud gauge
F	1220	1245	1245	1245	IG	3								36% recovery of mud gauge
F	1245	1368	1368	1368	3BIR									pyrite sand
F	1245	1270	1270	1270	IP	4								40% recovery
F	1270	1320	1320	1320	IP	6								60% recovery
F	1320	1370	1370	1370	IP	4								46% recovery
F	1368	1500	1500	1500	IG									extensive incipient gouge
F	1368	1420	1420	1420	IP	7								70% recovery
F	1420	1470	1470	1470	IP	5								54% recovery
F	1470	1500	1500	1500	IP	4								43% recovery
F	1515	1540	1540	1540	G3IR	5								very rubble w/ gouge - 56% recovery
F	1540	1606	1606	1606	12B									mod. broken - recovery OK
F	1623	1640	1640	1640	13B									very broken - recovery reasonable
F	1640	1682	1682	1682	13B									very broken w/ some sharp fractures locally - recovery OK
F	1682	1816	1816	1816	12B									mod. broken
F	1816	1971	1971	1971	13B	9								mod. to very broken - recovery 90-95%
F	11010	11020	11020	11020	3BIR	4								very broken & rubble w/ 30-50% recovery
F	11035	11040	11040	11040	3BIR									very broken & rubble - recovery OK
F	11040	11220	11220	11220	3FIG									gouge - phylite mud
F	11080	11120	11120	11120	IP	1								10% recovery
F	11120	11170	11170	11170	IP	4								40% recovery
	11170	11220	11220	11220	IP	4								40% recovery
	11220	11260	11260	11260	3BIR									very broken & rubble - recovery OK
	11260	11280	11280	11280	G3IR	7								very rubble w/ gouge - 75% recovery
	11280	11320	11320	11320	12B									mod. broken
	11320	11340	11340	11340	3BIR									very broken & rubble w/ gouge
	11340	11460	11460	11460	R12B									mod. broken w/ short rubble intervals
	11460	11610	11610	11610	3BIR	9								very broken & rubble - 95% recovery
	11460	11460	11460	11460	IG									10cm gauge - 50° core axis

PROJECT VANGORDA DRILLHOLE NO. 27V-21 COORDINATES: N \_\_\_\_\_ DATE Nov 24 1967  
 LOCATION LC HOLE SIZE NQ E \_\_\_\_\_ PAGE of \_\_\_\_\_  
 LOGGER LCP INCLINATION -90° 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		COMMENTS
		LENGTH	%	LENGTH	%		CATEGORY	NO.			DEPTH	ANGLE	NO.	FREQ.	NO.	FREQ.	
10																	TRICONED
20		3.7		0													
22		1.1		0													
27		1.5		0													
32		2.9		0													
37		2.3		0													
42		3.5		0													
47		2.7		0													
50		1.3		0													
54		3.0		1.2													
59		5.3		0.4													
62		2.8		0.8													
67		7.0		0.6													Spread out
72		5.5		1.0													
77		5.5		1.9													
81		3.9		1.2													
86		5.6		0													
91		6.5		0.5													
96		5.5		0													
101		5.3		2.3													
102		0.4		0													
104		3.4		1.0													Spread out
108		1.0		0													
112		0.4		0													
117		1.9		0													
122		1.9		0													
126		6.4		0													

Fig. 1. Typical rock mechanics core log.

PROJECT VANGORDA DRILLHOLE NO. 87V-21 COORDINATES: N \_\_\_\_\_ DATE Nov 14 1987  
 LOCATION \_\_\_\_\_ HOLE SIZE NO E \_\_\_\_\_ PAGE of \_\_\_\_\_  
 LOGGER LCP INCLINATION -90° 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		COMMENTS
		LENGTH	%	LENGTH	%		CATEGORY	NO.			DEPTH	ANGLE	NO.	FREQ.	NO.	FREQ.	
128		1.1		0													
132		3.8		0.8													
134		2.0		0													
139		5.2		1.1													
142		4.0		0													
147		5.0		1.6													
150		2.5		0													
155		3.1		0													
160		4.4		0													
		<p style="font-size: 2em; margin: 0;">ECH</p> <hr style="width: 100%; border: 0.5px solid black;"/>															

Fig. 1. Typical rock mechanics core log.

87V-22

DIAMOND DRILL CORE LOG

Date: \_\_\_\_\_

Hole Number: 87V-22

Reference Fabric Orientation Diagram:

Project: 1987 Vangorda Drilling

Bentonite for overburden

Location: Vangorda deposit

550 for coring

Claim: \_\_\_\_\_

Terr. Plane Co-ords.: 6902842.17 N

594362.76 E

Grid Co-ords: 24E / -2.5

Elevation: 1152.88

All symmetry determinations looking

Total Depth: 101 feet (30.8m)

NW with 52 dipping

Inclination: -90° (vertical)

SW with dip azimuth 220.

Purpose: ore reserve definition

Reason hole Terminated: drilled through ore into phyllite

Logged by: CVR + LCP

Date(s) Logged: Nov 17/1987

Drilling Contractor: ARCTIC DIAMOND DRILLING

Hole Cemented: No Steel down Hole: No

Size	CORE From	To	Collar Cased and Capped:
<u>NW</u>	<u>0</u>	<u>16</u>	<u>No</u>
<u>NQ</u>	<u>16</u>	<u>101</u>	

Assay Lab: MINE

Certificate No's: \_\_\_\_\_

Started: Nov 8/87 Completed: Nov 8/87

DDH 87.V.-22  
           2                                8

Diamond Drill Core Log

Date: \_\_\_\_\_ Logged By: \_\_\_\_\_

Code	Drillhole	Elevation	Northing	Easting	Units (feet/metres)	R.F.E
I	2	8	10	16	17	24
T	87.V.-22	1152.9	902842.2	594362.8		5.2

Code	Drillhole	Depth	Zenith Angle	True Azimuth	Comments
I	2	8	10	14	22
R	87.V.-22	10	180° 0	0° 0	AT COLLAR
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
I	2	8

Code	From	To	Recov.	No.	Unit	Description
1	10 14 16	20 22 24	26 28	30 34 35		
	10 0	<u>4.9</u> 17 16 0		11	#	Overburden - TRICONED
	11 6 0	<u>6.1</u> 12 10 0		12	#	Overburden 1 1" fragment light green, calcareous, yellow weathered phyllite likely from an overburden boulder. No mud in the recov'd.
	12 10 0	<u>7.4</u> 12 14 3		13	15 B 16	? [420]? Extremely weathered + oxidized. Extremely soft + fissile, homogeneously weathered yellow, rusty- orange phyllite? Unit has been desintegrated into a soft mud. When mud is broken, rusty orange-yellow micaceous flakes are seen locally. Recv is surprisingly good considering nature of the material. Approx 1' of core loss likely at the top of the interval.
	12 14 3	<u>11.1</u> 13 16 5		14	14 16 14	± 8 ± Sandy + Oxidized Locally soft + porous dark grey - brown massive Ba + P <sub>2</sub> sulphide + sulphide sand. More competent intervals are thinly banded, moderately hard, light brown - tan baritic S <sup>±</sup> . Unit is noncalcareous. In more competent intervals, banding defined by abundant honey sph, grey Gal + P <sub>2</sub> . Banding is on a scale of < 1cm thick. Magnetite is seen in thin black streaks // to S <sub>2</sub> in more competent rock. Locally orange brown weathering seen on broken surfaces in more competent rock. In sandy intervals, extreme oxidation is likely. Oxidation coatings appear to be a darker brown-black. Est Pb + Zn 12-15% Est total S <sup>±</sup> 70-80% w remainder

Code	From	To	Recov.	No.	Unit	Description
	10 14	16 20	22 24	26 28	30 34	35
						being Ba + Mag.
						TOI → 30 core extremely broken → locally sandy Recry O.K.   30' → 31' 1/2
						core intact recry sample   31-34.2 very broken to locally rubble at 31 → 32
						recry O.K.   32 → FOI core intact recry good. NO obvious faults.
	13 16 5	<sup>(14.2)</sup> 14 16 5		15	41E14	±8 very weathered
						Dark brown soft py + base metal noncalcareous mud/sand. At
						43'-44' one competent interval of dark brown homogeneous
						noncalcareous massive pyritic sulphides. Locally, microblockshot
						texture developed during this interval. Slight orange yellow
						oxidation on fractures. Mag in thin black streaks // to S <sub>2</sub> .
						Est Pb+Zn 12%? Est total S = 90%
						TOI → 42 7" of sulphide sand recovered   42 → 45 2.4' of core.
						Core very broken to locally sandy rubble   45 → FOI 1.2' of sulphide
						sand recovered. Sandy intervals with significant core loss ie TOI →
						42' may indicate faulting.
	14 16 5	<sup>(15.0)</sup> 14 19 2		16	41E10	±4 mod. oxidized
						Very hard, noncalcareous, dominantly homogeneous, massive fine
						grained pyritic S = Locally, minor greyish base metal streaks
						with no preferred orientation are seen. Broken surfaces show
						dark reddish brown oxidation coatings. Cut surfaces are relatively
						fresh with some local patchy tannish-yellow coatings. Core is
						moderately broken to locally very broken along steep fractures. Recry
						is good. Est Pb+Zn 4-5%

Code	From	To	Recov.	No.	Unit	Description
1	10	14 16	20 22 24	26 28	30 34 35	
	4 9 2	<sup>17.5</sup> 15 7 5		17	141614	±8 ± #minor Hard, light grey, extremely high grade, thinly banded, baritic S <sup>=</sup> . Banding defined by abundant fine grained, grey Gal and reddish-brown Sph. Banding is on a scale generally < 1cm thick and is // to S <sub>2</sub> . Abundant mag occurs locally, less in the mtr & in small clasts < 1cm φ. Typically these clasts align into streaks // to S <sub>2</sub> . Very minor calcite occurs locally in thin < 1cm clasts. In top 5' of interval, core is weathered yellow orange on steep fracture surfaces. Cut surface is only slightly weathered w/ local patchy yellow-orange coatings. Remaining interval is fresh. Est total S <sup>=</sup> 70% remaining is Ba + Mag Est. Pb+Zn 15-20%
	15 7 5	<sup>19.3</sup> 16 4 9		18	141E10 ±#±4(10Q9) (4L624) 70:15:15	slightly oxidized Dominant unit is a hard, brassy yellow, homogeneous fine grained massive Py. Locally, calcite occurs in large clasts and streaks typically associated w/ grey gte. Calcite also fills thin steep fractures. Yellow-tan dol also locally fills fractures generally < 1/2 cm thick. Typically, carbonates weathered out of fractures creating large vugs & pores. At 59.9 → 62.7 mixed rubble of soft, light olive green altered chl+msc phyllite. Locally sulphide banding is present. Scale and orientation of banding is difficult to determine due to the status of the core. Mixed with this phyllite are fragments of white pegmatitic gte with abundant red Sph & grey Gal + green chl filling fractures. S <sub>2</sub> surface of phyllite is a dull olive green. Top 3" of

CURRAGH RESOURCES INC.  
Lithologic Log

Code	From		To		Recov.		No.		Unit		Description
	10	14	16	20	22	24	26	28	30	34	
											of unit may have originally been a metabasite because of occurrence of small bright green chrome chlorite / fuchsinite? specks on cut & S <sub>2</sub> surfaces. Weathering features absent on cut + broken surfaces. 2 feet of core loss between 60 & 63' at the bottom of the phyllite unit maybe due to a fault. Core intact to mod. broken in massive S <sup>=</sup> unit. Remainder of interval extremely broken & rubbley.
L	1614	9	<sup>(22.6)</sup> 1714	3				9	1416	1214	±1 (1009) 75:25 Mod. soft to locally hard, light grey w/ local green tinge, qtz-S <sup>=</sup> banded, muscovite ± chlorite phyllite. Noncalcareous. S <sub>2</sub> surfaces are patchy grey and green. Qtz-S <sup>=</sup> bands dominantly fine-grained py w/ much lesser base metal in dissem. grey qtz. Bands parallel S <sub>2</sub> and range up to 6 cm thick. Locally chlorite occurs as thin light green selvages to grey qtz laminae. At 714' have 10cm thick foliaform pegmatitic qtz vein w/ galena infilling thin fractures. 719-EOI similar to vein w/ fracture filling py, galena, red sphal. Chlorite often forms selvages to fractures. Unit very broken / recovery OK. In 4L total S <sup>=</sup> 15-20% Grade probably 3-4% (Pb+Zn)
L	1714	3	<sup>(23.7)</sup> 1717	9				110	1416	141	±# ±8 Creamy tan yellow, shaly banded, moderately hard, locally calcareous, very high grade baritic S <sup>=</sup> . Banding defined by abundant honey-combed sphal and grey galena. Magnetite occurs in last 1.5' in thin streaks and blebs elongate within S <sub>2</sub> . Blebs generally < 5mm across. Calcite occurs in thin laminae parallel S <sub>2</sub> and in small clasts averaging < 1 cm across. Generally clasts confined to last 1.5' of unit. Unit differs from higher baritic unit because of presence of

Code	From		To		Recov.		No.		Unit		Description
	10	14	16	20	22	24	26	28	30	34	
											abundant honey-combed sphal and local calcite. No oxidation visible on cut or broken surfaces. Total S <sup>=</sup> 70-75% w/ remainder being mainly Ba. Estimated grade 18-20% (Pb+Zn). Py < sphal Py ~ 10%. Core mod. broken to intact w/ good recovery.
L	77	9	1812	0				111	141L	1214	± 1 Very similar to Unit # 9 (64.9-74.3) 4L described earlier. No 10Q 9 gtz vein present. Total S <sup>=</sup> 8-10%. Py → base metals (Pb+Zn) = 2-3%. Contacts are sharp into massive S <sup>=</sup> . Core mod. broken to locally very broken. Recovery good. No major faults.
L	1812	0	1813	1				112	141E	1415	± # minor slightly oxidized on fractures. Dominantly a hard, thinly bedded, fine-grained pyritic S <sup>=</sup> . Bottom 6" of unit contains carbonaceous folia - near contact w/ lower 5A phyllite unit. Locally calcite forms cherts occurring as diffuse bedded laminae parallel S2. Base metal occurs in lighter grey, thin laminae parallel S2. No visible weathering on cut surface. Locally get yellowish green surface coating (oxidation) on fractures. Core intact to locally very broken on steep fractures. No visible fault. Recovery good. Total S <sup>=</sup> 80-90% (Pb+Zn) = 7-8%.
L	1813	1	1101	0				113	151A	161	± 1 ± 9 slightly oxidized on fractures. Dark grey, locally black, moderately soft to locally hard, noncalcareous, carbonaceous phyllite. S2 surfaces are dark black & leave black traces on fingers. Locally microlithons defined by thin gtz siltstone laminae. Qtz also occurs locally as thin stringers parallel S2 and containing py.

DDH 87.V-22  
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CURRAGH RESOURCES INC.  
Lithologic Log

Date: Nov 17/07 Logged By: CVR/LCP

Code	From				To				Recov.				No.				Unit	Description												
	10	14	16	20	22	24	26	28	30	34	35	10	14	16	20	22			24	26	28	30	34	35						
																														Abundant fractures locally porous due to weathering of carbonates. Fractures filled w/ qtz-py - yellowish tan carbonate (ankerite?) Total S = ~ 3%. I1 in description refers to qtz-py laminae. Core very broken, locally rubble at 87'-87.5', 91.0'-92.2', 95.2-96.0. Rubble assoc. w/ cum ends. No visible faults. TOI - 92 recovery OK / 92-96 2.3' core / 96-EOI recovery OK.
																														EOH

DDH B7V-2.2  
2 8

CURRAGH RESOURCES INC.

Page \_\_\_\_\_ of \_\_\_\_\_

Logged by CVR/LCP

ASSAY LOG (SAMPLER'S COPY) Date Nov 17/87 Sampled by \_\_\_\_\_

CODE	FROM	TO	SAMPLE	INTR.	REC (m)	UNIT	DESCRIPTION
P	12143	12190	3103315		1504	HG4	sand
P	12190	13134	3103316		1484	HG4	sand
P	13134	13165	3103317		1404	HG4	sand
P	13165	14120	3103318		1164	IE4	sand
P	14120	14165	3103319		1554	IE4	sand
P	14165	14192	3103340		1484	IE4	moderately weathered
P	14192	15128	3103341		1484	HG4	slightly weathered
P	15128	15175	3103342		1504	HG4	slightly weathered
P	15175	15197	3103343		1264	IE0	slightly oxidized
P	15197	16130	3103344		1351	DQ9	HL24
P	16130	16149	3103345		1284	IE4	
P	16149	17105	3103346		1484	KL24	
P	17105	17143	3103347		1451	DQ9	HL24 (80:20)
P	17143	17179	3103348		1524	HG4	
P	17179	18120	3103349		1374	K24	±1
P	18120	18131	3103350		1154	IE15	slightly oxidized on fractures
							EDH

DDH 87.V-22  
2 8

CURRAGH RESOURCES INC.

Page \_\_\_\_\_ of \_\_\_\_\_

Structural Log

Date: Nov 17/87 Logged By: CVK/LCP

Code	From				To				Feature	SYM	S <sub>0</sub>		S <sub>1</sub>		S <sub>2</sub>		Description
	10	14	16	20	22	24	26	28			32	34	38	40	44		
S				13.1 <sup>9.4</sup>					P. S12					518	21210		basitic banding in 4G
S				15.4 <sup>16.4</sup>					P. S12					418	21210		py banding in 4G
S				18.8 <sup>20.9</sup>					P. S12					519	21210		qtz - S= banding in 4k
S				18.1 <sup>25.1</sup>					P. S12					518	21210		carbonaceous folia in 4E5
S				19.3 <sup>28.3</sup>					P. S12					617	21210		micaceous pervasive flms
																	EOH

DDH B7V-22  
2 8

CURRAGH RESOURCES INC.

Fault Log

Date: Feb 4/88 Logged By: LCP

Code	FROM				TO (At)				Feature	REG	UPPER Dip Direct		INTERNAL Dip Direct.		LOWER Dip Direct		Description	
	10	14	16	20	22	24	26	28			32	34	38	40	44			
F	101	116	0	0	1NP	0												Teicored - no recovery
F	116	0	0	0	1P	0												recovered 1" fragment of phyllite
F	120	0	0	3	1P	7												77% recovery of very weathered mud.
F	124	3	0	0	3B	1R												very broken & sandy - recovery OK
F	131	0	0	2	3B	1R												very broken to locally rubbly - recovery OK
F	136	5	0	0	3B	1R	1											sulphide sand - 10% recovery
F	142	0	0	0	3B	1R	4											very broken to locally sandy rubble - 48% recovery
F	145	0	0	5	3B	1R	8											S= sand - 80% recovery
F	146	5	0	2	12	B												mod broken to locally v. broken along fractures - recovery good
F	157	5	0	9	11	B												intact to mod. broken
F	159	9	0	7	3B	1R	2											very broken & rubbly - 28% recovery
F	164	9	0	3	13	B												very broken - recovery OK
F	171	4	0	4	12													10cm gtz vein
F	171	9	0	3	12													gtz vein
F	174	3	0	9	11	B												mod broken to intact
F	177	9	0	0	12	B												mod broken to locally v. broken
F	182	0	0	1	11	B												intact - locally broken on steep fractures - recovery OK
F	183	1	0	0	13	B												very broken - recovery OK
	187	0	0	5	12													rubbly
	187	5	0	8	13	B												very broken
	191	8	0	2	12													rubbly
	192	2	0	0	3B	1P	5											57% recovery
	195	2	0	0	12													rubbly
	196	0	0	0	13	B												very broken
																		EOH

PROJECT \_\_\_\_\_ DRILLHOLE NO. 87V-22 COORDINATES: N \_\_\_\_\_ DATE Nov 17 1987  
 LOCATION \_\_\_\_\_ HOLE SIZE NQ E \_\_\_\_\_ PAGE    of     
 LOGGER \_\_\_\_\_ INCLINATION -90° ELEVATION \_\_\_\_\_



**PITEAU & ASSOCIATES**  
 GEOTECHNICAL CONSULTANTS  
 VANCOUVER CALGARY  
**GEOTECHNICAL CORE LOG**

160 Fig. 1. Typical rock mechanics 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.	
15		0		0													
20		0.1		0													
25		3.8		0													
29		3.8		0													
32		2.8		0.7													
37		4.9		0.9													
42		0.6		0													
45		2.7		0													
49		5.1		0.5													
52		3.4		1.1													
57		5.0		3.5													
62		4.8		2.4													
63		0.6		0													
68		4.6		1.8													
72		4.6		0													
77		5.2		1.2													
82		4.6		0.4													
87		4.6		0													
92		4.2		0													
96		2.3		0													
101		5.2		0													

EOH

87V-23

DIAMOND DRILL CORE LOG

Date: \_\_\_\_\_

Hole Number: 87V-23

Reference Fabric Orientation Diagram:

Project: 1987 Vangonda Drilling

Bentonite for Overburden

Location: Vangonda deposit

Revert for coring

Claim: \_\_\_\_\_

Terr. Plane Co-ords.: 6902965.10 N

594412.94 E

Grid Co-ords: 22E / + 1.5

Elevation: 1155.99

All symmetry determinations looking

Total Depth: 97 feet (29.6 m)

NW with 52 dipping

Inclination: -90° (vertical)

SW with dip azimuth \_\_\_\_\_.

Purpose: reserve definitions + met. samples + piezometer

Reason hole Terminated: drilled through ore into footwall phyllite

Logged by: LCP + CVR

Date(s) Logged: Nov 24 / 1987

Drilling Contractor: ARCTIC DIAMOND DRILLING

Hole Cemented: \_\_\_\_\_ Steel down Hole: \_\_\_\_\_

Size	CORE From	To	Collar Cased and Capped: _____
<u>NW</u>	<u>0</u>	<u>18</u>	
<u>NQ</u>	<u>16</u>	<u>97</u>	

Assay Lab: MINE

Certificate No's: \_\_\_\_\_

Started: Nov 8/87 Completed: Nov 9/87

DDH 87.V-23  
2 8

Diamond Drill Core Log

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	87.V-23	1156.10	9029.65	15944.12		52

Code	Drillhole	Depth	Zenith Angle	True Azimuth	Comments
I	2 8 10 14 22 26 28 32 34 56				
R	87.V-23	100	180.00	0.0	AT COLLAR
R					
R					
R					
R					
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
I	2 8 10 56	

Code	From				To				Recov.				No.				Unit				Description
	10	14	16	20	22	24	26	28	30	34	35	1	2	3	4	5	6	7	8		
L		100		(4.9) 1160																#1	Triconed - no recovery
L		1160		(5.1) 1167																#1	0.4' @ TOI 5A6, mod. soft, very dark grey noncalcareous phyllite. S <sub>2</sub> surfaces are dark steely grey PS <sub>2</sub> foliated 16.4-16.7 - redrilled pebbles of 10A3 musc-biot granite. Boulders have a pale brown surface weathering coating. Core very broken/recovery good
L		1167		(8.4) 12174																13 1416141	sandy / very oxidized Very dark grey, noncalcareous, sandy & friable bastic S <sup>=</sup> locally pieces "clean" enough to see honey-coloured sphalerite. Estimated grade 13% (Pb+Zn) Py content 40% - Some small chips consist almost entirely of py locally broken fracture surfaces have orange-brown weathering surface coating. Core very broken & rubble. Locally it is sandy - due to very weathered nature. TOI - 18 recovery OK / 18-22 has 2.5' core / 22-27 has 0.8' core
L		12174		(10.5) 13143																14 15131612	Extremely weathered. Medium grey, PS <sub>2</sub> foliated, noncalcareous phyllite S <sub>2</sub> surfaces are medium to dark grey. S <sub>2</sub> & cut surfaces have a well developed orange-brown weathering coating. - enough so that original phyllite colour is masked. Core is very broken → rubble. Recov is O.K. in lower part of interval. / 27-32 has 3.2' of core, probably most lost near top. No obvious Gv/ts.

Code	From	To	Recov.	No.	Unit	Description
1	10 14 16 20 22 24 26 28 30 34 35					
	13 14 3	(12-3) 14 12 0		5	C 1410B14 ± 3	(5362) 90:10 slightly oxidized on fractures All grey to brownish-grey gtzite. Generally noncalcareous. Two short intervals have numerous small clasts of white-grey dol up to 1cm φ. S <sup>+</sup> form diffuse bands separated by intervals of grey gtzite. grey gtzite is fractured w/ S <sup>+</sup> infilling fractures. Total S <sup>+</sup> approx 35%. Est Pb <sub>2+</sub> 10-12%. Mag occurs as tiny diss <sup>-</sup> specks in pyritic intervals. Core has abundant steep fractures generally, 410° to core axis. Fractures are typically woggy due to weathering & locally have a whitish surface coating. No obvious iron orange-brown oxidation stains. Core is moderately broken w/ short rubble interval at 35.0 → 35.5. This short interval corresponds to a phyllite.
	14 12 0	(14-2) 14 16 6		16	141C3 ± 8	Brassy-grey very hard, noncalcareous gtzite. P <sub>g</sub> form diffuse fine grained bands & aggregates. Mag occurs as thin streaks associated w/ more pyritic intervals. Diffuse banding on a scale of 2cm → 10 cm. Nil grade. P <sub>g</sub> content 30-35%. Core is intact. Rock is good.
	14 16 6	(16-1) 15 2 9		7	C H 1418 ± 7 ± 9	Background rock unit is a medium-light grey, finely laminated, very hard, noncalcareous gtzite. This gtzite appears to have been broken & flooded with S <sup>+</sup> + mag + dol. The S <sup>+</sup> form diffuse bands & fracture infillings. Coarse dol. clasts & irregular mag clots up to 2cm φ are commonly associated w/ S <sup>+</sup> . P <sub>o</sub> occurs only very locally in minor amounts.

Code	From	To	Recov.	No.	Unit	Description
1	10 14 16	20 22 24	26 28	30 34 35		
						Dominant $S^=$ is $P_y$ w lesser base metals. Est $Pb+Zn$ 90%. Total $S^=$ content approx 30-40% w $P_y$ 2x sph. There are some steep fractures. No visible signs of weathering. Core is intact Recovery is good. This unit reminds me of a breccia texture w sulphides flowing in + around qtz clasts.
	15 12 9	<sup>(17.1)</sup> 15 16 0		18	41C10	±3 sl. oxidized on fractures? Medium grey, very slightly pyritic qtzite containing 10 → 20cm bands of fine grained, homogeneous brassy yellow py. Est $Pb+Zn$ 2%. Some steep fractures, locally vuggy due to weathered carbonate? Locally contains dark green chl. in fractures. Core is intact 702-55 / 55-56 moderately broken along steep fractures Recovery is Good. No faults. Unit is noncalcareous.
	15 16 0	<sup>(20.9)</sup> 16 18 6		19	41E11 14	8 \$ ± 7 minor (10 \$) 90:10 Brassy yellow + very dark brown, stained to mottled, hard, pyritic massive $S^=$ . Dark brown bands → cherts consist of sph + Mag w lesser amounts of grey qtz in white dol. Contacts are irregular but sharp w pyritic intercalate. Proportions between ps + sph rich intervals 60:40 to 20:30 w pyrite being dominate. The dol + qtz typically occur as clasts up to 2cm $\phi$ . Interval 64.7 → 66 contains abundant + pegmatitic white qtz w interstitial dol. + lesser mag + py. Near top of interval 2-3cm stretch where major $S^=$ is $P_o$ . Appears to be flooding earlier $S^=$ assemblage Est $Pb+Zn$ 12%. Total $S^=$ 85%. Core is moderately broken → slightly broken. Recovery is Good. Local weathering in pegmatitic

Code	From		To		Recov.		No.		Unit		Description	
	10	14	16	20	22	24	26	28	30	34		35
											g/z vein.	
	16	18	6	21.3 17.1	6			110	141	171	18	Very hard, medium grey gtzite w abundant flooding by fine grained Po. Contains numerous broken bands of tan weathering dol. total S= 40-50%. Dominant S= is Po. Uppermost part of interval has excellent grade but dies moving down due to ↑ in Po. Est Pb+Zn 4%. Core moderately broken, Recov O.K. Unit broken but because of ↑ gtz + mainly because of presence of Po.
	17	11	6	23.2 17.6	0			111	14E	114	18	Dark brassy-brown thickly laminated, slightly dolomitic pyritic S=. Contains bands + clasts of medium-grey gtzite. Dolomite also occurs as bands + clasts. In both cases, clasts are up to 3cm φ. Sph + Mag form thin streaks + bands defining the S <sub>2</sub> foliation. total S= 80%. Est Pb+Zn 9%. Upper contact marked by disappearance of Po. Lower contact marked by disappearance of grade. Core is moderately broken. Recov is O.K.
	17	16	0	24.4 17.9	9			112	14E	118	18	Homogeneous, fine grained, hard, brassy yellow Py. w clasts + bands of grey gtzite. Pyritic intervals contain rounded slightly elongate clots of Mag up to 1cm φ. Est Pb+Zn < 1%. P <sub>3</sub> content 80%. Core is moderately broken 70' → 77' / 77' → 78.5 core is very broken / 78.5 → EOE very rubble + broken.

Code	From		To		Recov.		No.		Unit		Description
	10	14	16	20	22	24	26	28	30	34	
											Recry is O.K.
	17	19	9	26.7 87	5			113	14	K10	[4L124 ± 6 minor] Light grey, hard, PS <sub>2</sub> foliated, noncalcareous gtzite to siliceous phyllite. S <sub>2</sub> surfaces are rough like broken gtz in patchy occurrence of silvery musc. Contains diffuse irregular stringers + bands of brassy yellow Py. Locally contains thin laminae rich in reddish-brown sph. Very locally contains thin laminae → bands of medium-green chl. S = content 15%. Entire interval is very broken. Locally rubble, 86.5 → 87. Recry, O.K. no core loss.
	18	17	5	29.6 97	0			114	4	L10	± 6 ± 2. Noncalcareous, moderately soft PS <sub>2</sub> foliated musc + chl phyllite. Colour varies from off white → pale greenish white. S <sub>2</sub> surfaces are silvery-white, locally in patchy pale green in silvery grey tinge. 5cm intervals contain extremely fine grained Py along S <sub>2</sub> + intersecting fractures. Core is very broken TOI → 95. Recry is O.K. / 95 → 96.5 very broken + rubble in gouge. Gouge appears to be // to S <sub>2</sub> / 96.5 → 97 very broken. Between 92 + 97 there is 1' of core loss likely near bottom of interval in gouge.
											FOH
											NOTE: Most of this hole appears to be in the 4D8 transition zone between 4EG + 4EC.

ASSAY LOG (SAMPLER'S COPY)

CODE	FROM			TO			SAMPLE	INTR.	REC (m)	UNIT			DESCRIPTION
	10	14	16	20	22	26				28	30	32	
	1	16	7	12	20		3019197	1		14	5	141641	very oxidized
	1	22	0	27	4		3019198	1		11	5	141641	" "
	1	27	4	34	3		3019199	1		16	6	1513162	weathered
	1	34	3	38	2		3110100	1		14	1	1411814	slightly oxidized on fractures
	1	38	2	42	0		3106101	1		13	7	14101814	" "
	1	42	0	46	6		3106102	1		14	9	141013	± 8
	1	46	6	50	1		3106103	1		13	5	141118	
	1	50	1	52	9		3106104	1		12	5	141118	
	1	52	9	56	0		3106105	1		13	6	141010	± 3 slightly oxidized on fractures
	1	56	0	60	4		3106106	1		14	5	141114	8 f
	1	60	4	64	5		3106107	1		14	6	141114	8 f
	1	64	5	68	6		3106108	1		14	2	141114	8 f
	1	68	6	71	6		3106109	1		13	0	14117	± 8
	1	71	6	76	0		3106110	1		15	0	1411418	f
	1	76	0	79	9		3106111	1		14	6	141118	
	1	79	9	83	3		3106112	1		14	8	141010	
	1	83	3	87	5		3106113	1		15	0	141010	

Code	From			To			Feature Sym	S <sub>0</sub> Dip Direct.	S <sub>1</sub> Dip Direct.	S <sub>2</sub> Dip Direct.	Description		
	10	14	16	20	22	24						26	28
S			8-8				P1512				718	2120	MICACEOUS FOLIATION
S			14.0 1416				P1512				716	2120	Pg banding in 4C3
S			22.6 1714				P1512				82	2120	Sulphide Banding
S			27.2 1910				P1512				718	2120	Micaceous Foliation
S			34.4 1916				P1512				713	2120	" "

Fault Log

Date: Feb 4/88 Logged By: LCP

Code	FROM		TO (At)		Feature	REG	UPPER		INTERNAL		LOWER		Description	
	Dip	Direct	Dip	Direct			Dip	Direct	Dip	Direct	Dip	Direct		
I	10	14	16	20	22	24	26	28	32	34	38	40	44	
F	101		1160		WIP0									Triconed - no recovery
F	1160		1167		31B									very broken - recovery good
F	1167		1180		31BR									very broken to rubble - recovery OK
F	1180		1220		31BR6									very broken to rubble - 62% recovery
F	1220		1274		31BR2									very broken to rubble - 22% recovery
F	1274		1320		3BR7									very broken to rubble - 70% recovery
F	1320		1343		31BR									very broken to rubble - recovery OK
F	1343		1420		J21B				110	01010				mod. broken - steep fractures
F	1350		1355		IR									short rubble interval
F	1416		1529		1XID									bra texture w/ 5' flooring m & around gtz clasts
F	1515		1516		J21B									mod. broken on steep fractures
F	1516		1618		6 11B									mod. broken to slightly broken
F	1618		1716		12B									mod. broken
F	1716		1716		12B									mod. broken
F	1716		1717		12B									mod. broken
F	1770		1718		5 13B									very broken
F	1718		1719		9 31R1B									very rubble & broken
F	1719		1817		5 13B									very broken
F	1816		1817		0 IR									rubble
F	1817		1915		0 13B									very broken
F	1915		1916		5 31B1C									very broken & rubble
F	1915		1916		5 P11G				919	91919				gauge parallel 52-1' core loss
F	1916		1917		0 13B									very broken
														EOH

PROJECT VANCO RPA DRILLHOLE NO. 87V-23 COORDINATES: N \_\_\_\_\_ DATE \_\_\_\_\_ 19\_\_\_\_  
 LOCATION \_\_\_\_\_ HOLE SIZE NQ E \_\_\_\_\_ PAGE \_\_\_\_\_ of \_\_\_\_\_  
 LOGGER LCP + WPA INCLINATION -90° 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		COMMENTS	
		LENGTH	%	LENGTH	%		CATEGORY	NO.			DEPTH	ANGLE	NO.	FREQ.	NO.	FREQ.		
16																		TRILORIED
18		2.0		0														
22		2.3		0														
27		0.7		0														
32		3.5		0.4														
37		5.6		0.9														
42		4.8		2.7														
47		5.4		3.0														
52		4.9		4.3														
57		5.2		2.0														
62		4.7		3.0														
67		5.1		3.7														
72		5.0		3.7														
75		3.2		1.2														
77		2.0		0.8														
79.5		2.5		0														
84.5		6.0		0.5														Spread out
87		3.0		0														
92		4.8		0														
97		4.0		0														

~~EOH~~

Fig. 1. Typical rock mechanics core log.

87V-24

DIAMOND DRILL CORE LOG

Date: \_\_\_\_\_

Hole Number: 87V-24

Reference Fabric Orientation Diagram:

Project: 1987 Vangorda Drilling

Location: Vangorda deposit

Claim: \_\_\_\_\_

Terr. Plane Co-ords.: 6903268.14 N

594253.65 E

Grid Co-ords: 11E / +4

Elevation: 1162.68

All symmetry determinations looking

Total Depth: 267 feet (81.4m)

NW with 52 dipping

Inclination: -90° (vertical)

SW with dip azimuth 220.

Purpose: piezometer hole NE of pit near V322

Reason hole Terminated: reached desired depth

Logged by: LCP + CVR

Date(s) Logged: Nov 16-17 / 1987

Drilling Contractor: ARCTIC DIAMOND DRILLING

Hole Cemented: \_\_\_\_\_ Steel down Hole: 64' casing

Size	CORE From	To	Collar Cased and Capped: <u>No</u>
<u>NW</u>	<u>0</u>	<u>64</u>	
<u>NQ</u>	<u>64</u>	<u>267</u>	

Assay Lab: \_\_\_\_\_

Certificate No's: \_\_\_\_\_

Started: Nov 9/87 Completed: Nov 11/87

DDH 87V-24  
2 8

Diamond Drill Core Log

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	87V-24	1162.7	903268.1	594253.6		52

Code	Drillhole	Depth	Zenith Angle	True Azimuth	Comments
I	2 8 10 14 22 26 28 32 34 56				
R	87V-24	100	180.0	0.0	AT COLLAR
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	

Code	From		To		Recov.		No.		Unit		Description
	10	14	16	20	22	24	26	28	30	34	
		100	164	0				11		#1	TRICORDED - NO RECOVERY
		164	192	0				12		#1	TILL - Predominantly boulders & pebbles of IOAB musc + bio granite. Minor amounts of dull brown mud matrix coated. Minor SC, red chert, grey phyllite also present. Recry is 10-20%. Boulders are bulk of recovery.
		192	1111	7				13		#1	Unconsolidated silt. Dull, dark brown silty-clay homogeneous mud. Minor small pebbles. Recry 80% - incredible recry considering type of material.
		1111	1129	5				14		#1	TILL IOAB musc + bio granite boulders. No mud mtr preserved. Recry <20%. Contains minor reg. gtz.
		1129	1169	0				15	141214		Slightly oxidized. Moderately soft, non calcareous, P <sub>2</sub> S <sub>2</sub> foliated, creamy white phyllite. S <sub>2</sub> surfaces are silvery white, locally w pale greenish patches. P <sub>2</sub> & Sph occur as fine grained streaks & stringers generally // to S <sub>2</sub> , locally infilling small fractures X-cutting S <sub>2</sub> . These range up to about 1 cm thick. P <sub>2</sub> stringers are weathering to a pale orange-brown on cut surface. Total S <sup>+</sup> content 10% w P <sub>2</sub> slightly > Sph. TOI → 152 is very rubblely w about 50% recry.   152 → 162 very broken & rubblely, recry 70%.   162 → EOI very broken. Recry 80-90%. No indication of major faults.

Code	From	To	Recov.	No.	Unit	Description
1	10 14 16 20 22 24 26 28 30 34 35					
	11619 0	<u>52.7</u> 11712 9		16	151014 B10	moderately soft, pale olive green → greenish white, moderately calcareous, musc + chl phyllite contains numerous white Qtz + calcite stripes. Bio typically developed as selvages to these stripes. S <sub>2</sub> surfaces are pale green - silvery white. Probably contains pelitic phyllite which cannot be differentiated because of alteration. Core is moderately to very broken. Bottom 6" very broken + rubble. No major faults. Recov is O.K.
	11712 9	<u>60.2</u> 11917 5		17	151316 ±2	medium → light grey, non calcareous, moderately soft phyllite. Upper 5' CS <sub>2</sub> foliated, remaining unit S <sub>2</sub> foliated. Unit is lighter as you go down the hole. S <sub>2</sub> is steel grey at top and going down S <sub>2</sub> typically has a greenish tint. Minor irregular P <sub>2</sub> porphy dess <sup>-</sup> in phyllite. Lower contact is gradational + marked by gradual lightening of colour. Core is very broken → locally rubble. Appears to be no major faults.
	11917 5	<u>71.1</u> 121313 3		18	141410 ± 6 minor	Soft, non calcareous PS <sub>2</sub> foliated, pale creamy-white musc phyllite. S <sub>2</sub> surfaces pale silvery-white. For short intervals, S <sub>2</sub> surface has pale green tinge. Very minor, thin py streaks // & X-cutting S <sub>2</sub> foliation. Minor pegmatitic bull Qtz pods + lenses locally associated w P <sub>2</sub> . Upper contact gradational over 2 → 3 feet w gradual lightening of grey. Core is moderately broken w minor rubble + incipient gouge zones. 5 cm of gouge

DDH B.F.V. - 24  
2 8CURRAGH RESOURCES INC.  
Lithologic LogPage 5 of \_\_\_\_\_Date: Nov 16/87 Logged By: LEP + CUR

Code	From				To				Recov.		No.		Unit		Description
	10	14	16	20	22	24	26	28	30	34	35				
															207'. 10 cm of rubble at 222. Recv. O.K.
	12	13	3	12	14	16	8					14	12		<p>Moderately hard → hard, non calcareous, creamy white musc phyllite characterized by abundant bands + stringers of white gtz with finely dess- ps. These range from 1/2" to 10 cm thick. S<sub>2</sub> surfaces are silvery-white. Core is moderately broken. 237 → 242 2' of core. / 242 → 247 2 1/2' core. No obvious faults. Est total S = 15%</p>
	12	14	8	12	15	15	4					14	10		<p>Soft, noncalcareous, PS<sub>2</sub> foliated pale grey-creamy white musc phyllite. S<sub>2</sub> surfaces are silvery white. Contains minor thin stringers of fine grained Py // to S<sub>2</sub> cleavage. Bands of pegmatitic white bull gtz are typically associated to lesser ps + chlorite. Core moderately broken. Recv. O.K. Est total S = 2%</p>
	12	15	4	12	16	17	0					14	10		<p>6 weak. Soft, noncalcareous, PS<sub>2</sub> foliated pale greenish-musc + chl phyllite. S<sub>2</sub> surfaces are pale silvery white w greenish tinge. Pegmatitic white gtz in lenses + bands containing minor P<sub>1</sub> + P<sub>0</sub>. Core is moderately broken except for 265 → 266.5 which is very rubble in gauge. Est total S = 2% P<sub>0</sub> slightly ≥ P<sub>1</sub>.</p>
															EOH

Code	From	To	Feature	SYM	S <sub>0</sub>		S <sub>1</sub>		S <sub>2</sub>		Description			
					Dip	Direct.	Dip	Direct.	Dip	Direct.				
I	10	14	16	20	22	24	26	28	32	34	38	40	44	
S	11	14.4	16	P S R							65	212	10	Micaceous Foliation
S	11	15.8	16	P S R							68	212	10	" "
S	11	17.8	16	C S R I					65	09	10	77	2210	Micaceous <sup>crenulation</sup> cleavage
S	11	20.3	16	P S R							68	220		Micaceous Foliation
S	11	21.8	16	P S R							65	220		" "
S	11	24.8	16	P S R							68	220		" "
S	11	26.2	16	P S R							62	212	10	" "



PROJECT VANGORDA DRILLHOLE NO. 87V-24 COORDINATES: N \_\_\_\_\_ DATE Nov 17 1987  
 LOCATION \_\_\_\_\_ HOLE SIZE NQ E \_\_\_\_\_ PAGE    of     
 LOGGER LCF+CUR INCLINATION -90° ELEVATION \_\_\_\_\_



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 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		COMMENTS	
		LENGTH	%	LENGTH	%		CATEGORY	NO.			DEPTH	ANGLE	NO.	FREQ.	NO.	FREQ.		
64																		TRUNCATED
69		0.8		0														
74		1.1		0														
79		2.6		0														
82		0.4		0														
84		1.3		0														
87		0.7		0														
92		0.9		0														
97		5.2		0														
102		3.1		0														
107		3.5		0														
112		2.2		0														
117		1.0		0														
122		0.5		0														
127		0.5		0														
132		1.9		0														
137		2		0														
142		2.5		0														
146		2.2		0														
148		1.5		0														
152		1.5		0														
156		2.5		0														
160		3.4		0														
162		1.3		0														
165		2.6		0														
169		3.1		0														
172		2.8		0.7														

Fig. 1. Typical rock mechanics core log.

PROJECT VANGORDA  
 LOCATION \_\_\_\_\_  
 LOGGER LCP + LVR

DRILLHOLE NO. 87V-24  
 HOLE SIZE NØ  
 INCLINATION -90°

COORDINATES: N \_\_\_\_\_  
 E \_\_\_\_\_  
 ELEVATION \_\_\_\_\_

DATE NOV 17 1987  
 PAGE    of   



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**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		COMMENTS	
		LENGTH	%	LENGTH	%		CATEGORY	NO.			DEPTH	ANGLE	NO.	FREQ.	NO.	FREQ.		
177	<del>4.77</del>	3.1		0														
182	F	4.0		0.5														
186		3.5		0														
189		2.4		0														
192		3.0		0														
197		4.0		0.8														
202		4.3		1.8														
207		5.0		0.7														
212		4.6		2.0														
215		2.6		0.4														
217		2.2		0.4														
222		3.0		0.4														
227		4.3		1.3														
232		5.0		2.2														
237		5.0		0.4														
242		2.0		0														
247		2.5		0														
252		5.1		3.4														
257		5.3		1.5														
262		5.2		2.0														
267		4.3		0.8														

Fig. 1. Typical rock mechanics core log.

70 H

87V-25

DIAMOND DRILL CORE LOG

Date: \_\_\_\_\_

Hole Number: 87V-26

Reference Fabric Orientation Diagram:

Project: 1987 Vangorda drilling

*Bentonite for overburden*

Location: Vangorda deposit

*Revent for Coring*

Claim: \_\_\_\_\_

Terr. Plane Co-ords.: 6903161.96 N

593937.99 E

Grid Co-ords: 07  
~~05~~E / -6.0

Elevation: 1146.68

All symmetry determinations looking

Total Depth: 162 feet (49.4m)

NW with 52 dipping

Inclination: -90° (vertical)

SW with dip azimuth 220.

Purpose: piezometer hole in overburden SW of deposit

Reason hole Terminated: drilled 10' into bedrock.

Logged by: LCP

Date(s) Logged: Nov 15/1987

Drilling Contractor: ARCTIC DIAMOND DRILLING

Hole Cemented: No Steel down Hole: No

Size	CORE From	To	Collar Cased and Capped:
<u>NW</u>	<u>0</u>	<u>40</u>	<u>No</u>
<u>NQ</u>	<u>40</u>	<u>162</u>	

Assay Lab: MINE

Certificate No's: \_\_\_\_\_

Started: Nov 13/87 Completed: Nov 14/87

CURRAGH RESOURCES INC.

DDH 87.V-26  
2 8

Diamond Drill Core Log 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	87.V-26	11146.7	9031162.0	593938.0		52

Code	Drillhole	Depth	Zenith Angle	True Azimuth	Comments
I	2	8 10	14 22	26 28	32 34
R	87.V-26	100	180.0	0.0	AT COLLAR

Code	Drillhole	Comments, Errant Remarks, Snivellings and / or Lewd Suggestions
I	2	8 10
	87.V-26	2" PIEZOMETER AT BOTTOM OF HOLE

Code	From			To			Recov.			No.			Unit	Description
	10	14	16	20	22	24	26	28	30	34	35			
L		10	0	1410	0					1		#1	TRICONED - No recovery	
L		1410	0	11512	3					12		#1	OVERBURDEN Core recovered dominantly gravel & drilled boulders. Smaller pieces typically reground & re-drilled. Minor fine dk brown mud matrix recovered. Dominant boulder type is Anvil Batholith 10AB muscovite-biotite lesser 5C metabasite and minor phyllite, qtz veins. Interval 87-92 has large boulders of marginal phase of Dixon Creek gneiss (1.2' across). Interval 146-EOT contains boulders of high grade massive pyritic S <sup>2</sup> as well as 10AB muscovite-biotite granit. Recovery poor - typically 20-30% / represents amt of boulders in fill matrix. Biggest boulders are near bedrock surface.	
L		11512	3	11610	0					13	141612	14	± 6 Soft, noncalcareous, off-white to pale greenish white phyllite P52 foliated Py and reddish brown sphal as fine-grained stringers and streaks up to 1cm across. These are parallel S <sub>2</sub> foln. Green tinge also as streaks & laminae parallel S <sub>2</sub> . S <sub>2</sub> surfaces are silvery white. Dominantly a muscovite phyllite w/ some minor intervals containing noticeable chlorite. Estimated grade 3% (Pb+Zn). Total S <sup>2</sup> 15% w/ py & sphal. Core med. broken w/ minor shot rubble & incipiently gouged intervals. 10cm pale cream gauge @ 158.5 / lower contact gauge 11 S <sub>2</sub> upper contact rubble.	
L		11610	0	11612	0						15	18161	± 2 ± 4 minor Med to med. dk grey, P52 foliated, noncalcareous, moderately soft & phyllite. S <sub>2</sub> surfaces light grey to steely dark grey. Minor pale green altered phyllite assoc. w/ thin py-sphal stringers locally. Core very broken w/ incipient gouges developed. Recovery OK.	

DDH B7V-26  
2 8

# CURRAGH RESOURCES INC.

Page \_\_\_\_\_ of \_\_\_\_\_

Logged by LCP

## ASSAY LOG (SAMPLER'S COPY)

Date Nov 15/87 Sampled by \_\_\_\_\_

CODE	FROM		TO		SAMPLE		INTR.		REC (m)		UNIT		DESCRIPTION
	10	14	16	20	22	26	28	30	32	34	36	40	
P	115	23	115	65	114.01		42		52		41	2141	
P	115	65	116	100	114.02		45		45		41	2141	(1000)

DDH 8.7V-26  
2                      8

**CURRAGH RESOURCES INC.**  
**Structural Log**

Page \_\_\_\_\_ of \_\_\_\_\_

Date: Nov 15/87 Logged By: LCP

Code	From				To				Feature	SYM	S <sub>0</sub>		S <sub>1</sub>		S <sub>2</sub>		Description
	10	14	16	20	22	24	26	28			32	34	38	40	44		
S				<sup>47.5</sup> 11516	0	P1S12							618	21210	micaeous fltn.		
S				<sup>49.1</sup> 11611	0	P1S12							577	21210	micaeous fltn.		



PROJECT \_\_\_\_\_ DRILLHOLE NO. 87V-26 COORDINATES: N \_\_\_\_\_ DATE Nov 15 1987  
 LOCATION \_\_\_\_\_ HOLE SIZE N2 E \_\_\_\_\_ PAGE    of     
 LOGGER \_\_\_\_\_ INCLINATION -90° 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.		
40		0		0														<i>Terminated</i>
42		0.5		0														
47		0.5		0														
52		0.8		0														
62		0.5		0														
67		0.7		0														
72		0.7		0														
77		0.4		0														
82		0.6		0														
87		0.4		0														
92		2.1		0														
97		0.8		0														
102		1.2		0														
107		0.5		0														
112		0.5		0														
117		0.5		0														
122		0.7		0														
127		0.9		0														
132		1.2		0														
137		0.8		0														
139		1.0		0														
142		2.2		0														
146		2.5		0														
151		0.3		0														
155		2.8		0														
160		4.2		0														
162		1.9		0														
																		<i>EoH</i>

Fig. 1. Typical rock mechanics core log.

87V-27

DIAMOND DRILL CORE LOG

Date: \_\_\_\_\_

Hole Number: 87V-27

Reference Fabric Orientation Diagram:

Project: 1987 Vanguarda drilling

*Bentonite for Overburden*

Location: Vanguarda deposit

*Revent for coring*

Claim: \_\_\_\_\_

Terr. Plane Co-ords.: 6903444.04 N

593945.63 E

Grid Co-ords: 00 / +0.5

Elevation: 1142.30

All symmetry determinations looking

Total Depth: 301.5 feet (91.9m)

NW with 52 dipping

Inclination: -90°(vertical)

SW with dip azimuth 220.

Purpose: ore definitions + met. samples + piezometer hole

Reason hole Terminated: drilled through ore into phyllite

Logged by: LCP + GVR

Date(s) Logged: Nov 21-22 / 1987

Drilling Contractor: ARCTIC DIAMOND DRILLING

Hole Cemented: No Steel down Hole: No

Size	CORE From	To	Collar Cased and Capped:
<u>NW</u>	<u>0</u>	<u>30</u>	<u>No</u>
<u>NQ</u>	<u>30</u>	<u>301.5</u>	

Assay Lab: MINE

Certificate No's: \_\_\_\_\_

Started: Nov 15/87 Completed: Nov 16/87

DDH 87V-27  
2 8

Diamond Drill Core Log

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	87V-27	1142.13	90344.0	593945.6		52

Code	Drillhole	Depth	Zenith Angle	True Azimuth	Comments
I	2 8	10 14 22	26 28	32 34	56
R	87V-27	100	180°0	0°0	AT COLLAR
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

Code	From	To	Recov.	No.	Unit	Description
1	10 14	16 20	22 24	26 28	30 34	35
	10 0	13 0		1	#	TRICONED - NO RECOVERY
	13 10	15 2		12	#	0.5' of re-drilled pieces of IOAB musc + bio granite + porphyritic biotite feldspar metabasite. Recov. is very poor.
	13 12	18 5	8	13	13IG10	Weathered Moderately soft → soft, noncalcareous, medium grey phyllite. Locally thinly laminated in shades of grey, commonly to slight greenish tint. Generally $PS_2$ foliated, although minor intervals a crenulation cleavage is visible. $S_2$ surfaces are medium → dark shiny grey & typically have a pervasive to patchy silvery yellow-brown surface weathering coating. Contains usual complement of pegmatitic foliiform white quartz veinlets. TOI → 37 very broken, 3.9 feet core recovered   37' → 61' very broken, reasonable recov.   61' - 65' very broken + rubble, 2.6' core recovered   65' → FOI, very broken w/ local short rubble intervals. Core recov. is reasonable. No major faults. Brownish weathering colour on $S_2$ surfaces reminds IFF of the typical weathering colour of the Mt. Mye formation in outcrop.
	18 15	19 5	8	14	13IG10	± 8 ± 9 Noncalcareous, moderately soft, medium grey, $PS_2$ foliated phyllite. Contains short intervals that are pale green & intervals that are dark grey. Pale green intervals associated w/ qtz veins & noticeable core loss. $S_2$ surfaces are shiny grey → dark grey. Weathering not seen on $S_2$ surfaces. TOI → 90 very broken & rubble w/ incipient spurge at 88' → 89'.

Code	From	To	Recov.	No.	Unit	Description
1	10 14 16	20 22 24	26 28 30	34 35		
	10 14 16	20 22 24	26 28 30	34 35		1/2 → 1' of core loss / 90 → EOI core is very broken
	175 8	<sup>(30.3)</sup> 110 9		15	14L16	(3B3) 90:10 4L is a moderately soft, P <sub>S2</sub> foliated, medium dark green, non calcareous chloritic phyllite. S <sub>2</sub> surfaces are silvery-creamy green w/ patchy grey. Interbedded w/ this unit is a dull olive grey-green, moderately calcareous chloritic phyllite. S <sub>2</sub> surfaces are silvery-green. Contacts w/ 4L are sharp // to S <sub>2</sub> . Major occurrence of this unit is top 0.8' of the interval. This unit is also P <sub>S2</sub> foliated. Core is very broken, Recov is O.K.
	110 9	<sup>(33.5)</sup> 110 9 B		16	14IA14	Hard, noncalcareous, moderately pyritic, medium → light grey ribbon banded g <sub>2</sub> ite. Well developed g <sub>2</sub> +py+sph light bands define microlithon texture. S <sub>2</sub> surfaces are shiny black, strongly mark fingers total S <sub>2</sub> are 20%. Sph approx 2X pyrite. Est Pb+Zn 9% comb. Upper contact is slightly rubbed but appears to be // to S <sub>2</sub> . Lower contact is a grade change. 101 → 102 intact / 102 → 106 very broken, 2.2' core recovered / 106 → EOI intact, good recov.
L	110 9 B	<sup>(60.7)</sup> 119 9 7		17	14IA10	(4C5) TAKE Medium grey, noncalcareous, very hard, ribbon-banded g <sub>2</sub> ite. Ribbon-bands consist of white to light grey g <sub>2</sub> and subhedral py. Separated by intervals of fine-grained medium-grey g <sub>2</sub> ite. Entire interval micro-lithonized - pressure solution stripes of dark grey carbonaceous bands. S <sub>2</sub> surfaces are dull to shiny black and strongly

CURRAGH RESOURCES INC.  
Lithologic Log

Code	From	To	Recov.	No.	Unit	Description
	10 14	16 20	22 24	26 28	30 34	35
						mark fingers. Overall unit shows variations in: 1) volume % of qtz-pyg bands from about 90% to about 10% 2) darkness (i.e. carbon content) of fine-grained qtzite between qtz-S <sup>2</sup> bands from light grey to very dark grey 2-3cm thick 3) local occurrence of diffuse bands of irregular med-grained pyg parallel general S <sub>2</sub> folia overprinting the ribbon-banding. Interval 184-185 is 4C5 - slightly "bleached" carbonaceous qtzite. It contains exactly the same textures as enclosing 4A Pyg content ranges 25%-5% TOI-163.3 intact w/ short slightly broken intervals - recovery excellent / 163.3-172.8 Very broken & slightly rubbley 164.5-168.5 has OK recovery; 168.5-172 only has 1.5' core. / 172.8-EOI med. to slightly broken w/ good recovery. Probable fault near 168-170 does not cause large offset.
L	119197	<sup>(67.4)</sup> 121121		18	141A141	Very hard, medium-grey, noncalcareous, ribbon-banded qtzite. Banding delineated by light qtz bands containing disseminated coarse to fine subangular pyg and fine sphalerite S <sub>2</sub> surfaces are carbonaceous partings caused by pressure solution - they are dull to shiny black and strongly mark fingers. Micro-lithon texture present Total S <sup>2</sup> = 10% w/ pyg & sphal Estimated grade 6% (Pb+Zn) Core intact w/ good recovery
L	121121	<sup>(65.3)</sup> 121142		19	141E141	Brassy yellow, fine-grained, noncalcareous pyg with 1cm - 10cm bands rich in reddish brown sphal. Thickest band @ upper contact w/ 4A; contains very tiny angular clast of 4A. Steep fractures 0-20° core axis contains thin dolomite in fillings & irregular dolomite clast. Upper contact and lower contact parallel S <sub>2</sub> . Estimated grade 7% (Pb+Zn) Core intact w/ good recovery

Code	From	To	Recov.	No.	Unit	Description
I	10 14 16	20 22 24	26 28	30 34 35		
L	12114 2	<u>67.1</u> 121210 3		110	14L16	weak. Pale grey to greenish tinge, soft, noncalcareous PS <sub>2</sub> foliated musc + chl phyllite. S <sub>2</sub> folia are light silvery-light grey to greenish tinge. Upper 0.3' is grey gteite to thin carbonaceous bands + minor dess <sup>-</sup> py. i.e. 4A affinities. The phyllite contains scattered coarse Po porphs. Core is intact to slightly broken. Recov is good.
	121210 3	<u>68.5</u> 121214 8		111	14L16	weak (4A0) 75:25 Soft PS <sub>2</sub> foliated very pale greenish-white, noncalcareous, musc phyllite. Contains minor dess <sup>-</sup> fine py in thin stringers // to S <sub>2</sub> . S <sub>2</sub> surfaces are shiny-silvery greenish-cream. TOI → 22.3 contains interbedded carbonaceous 4A0 gteite. Thickest interval of gteite is 0.9' at the top. Core is moderately broken. Recov is GOOD. No faults. Contains scattered Po porphs.
	121214 8	<u>68.9</u> 121216 0		112	14H14F	Very fine grained dark bronze, very calcareous, massive Po Calcite dess <sup>-</sup> in mtx + locally defines 1-2cm thick compositional bands. Minor gtz + calcite up to 0.5 cm thick. Overall a ductile flow texture. Core is intact. Recov is good. Est Pb+Zn 15% total S = 90%.
	121216 0	<u>70.2</u> 121310 2		113	14L1716	weak # minor PS <sub>2</sub> foliated, soft, very pale green, slightly calcareous phyllite. Calcite occurs in thin bands + laminae // to S <sub>2</sub> . Po occurs both as scattered isolated porphs + thin stringers // to S <sub>2</sub> . S <sub>2</sub> surfaces

Code	From		To		Recov.		No.		Unit		Description		
	10	14	16	20	22	24	26	28	30	34		35	
											are pale silvery green. Core is moderately broken. Recovery is good.		
	12	13	10	2	12	15	12		11	14	1416	1418	Thickly laminated, moderately hard, non calcareous, brownish grey baritic S <sup>2</sup> . Sparse dess <sup>-</sup> Mag specks. Both honey & reddish brown sph. Laminar defined by variations in Py & Spl content. Uppermost 0.5' contains inclusions or clasts of Regmatitic gte & calcareous 4L6 phyllite. Pressure shadow of clasts contains coarser Py Est Pb+Zn 15%. Total S <sup>2</sup> 60-70% Py content 15%-20% Core is intact. Recovery is good.
	12	13	12	2	12	14	11		11	15	1414	1716	weak (4D7) 90:10. Very pale greyish-green P <sub>S2</sub> foliated, soft, non calcareous phyllite. Phyllite has scattered porphs & P <sub>0</sub> & thin stringers & P <sub>0</sub> // to S <sub>2</sub> . Contains lesser interbands of approx 10-20 cm thick, grey, noncalcareous, hard gte. The gte contains thin laminae of Spl and/or P <sub>0</sub> // to compositional banding. Locally these bands approach massive P <sub>0</sub> in composition Est Pb+Zn of these interbeds is 12% comb, total S <sup>2</sup> range from 10% → 80%. Core is intact. Recovery is good.
	12	14	11	2	12	14	18	0	11	16	1414	141	# minor → (4J478 # minor) (4G48 #) 20:50:30 slightly oxidized Top 15' is a fine grained dark bronze-brown massive P <sub>0</sub> w clasts of grey dol ranging from 1/2 cm → 2cm φ. Has a typical fine grained ductile flow breccia associated w P <sub>0</sub> S <sup>2</sup> . This unit grades into an irregular clothed → botrioidal texture w large irregular clots

Code	From		To		Recov.		No.		Unit		Description	
	10	14	16	20	22	24	26	28	30	34		35
											of Mag + irregular bands of Sph in Pb rich mtx. Material still contains dol clasts. At 246 this is transitional to a dark brown thickly laminated, Mag bearing, baritic, pyritic S <sup>=</sup> . Baritic sulphides contain diss <sup>-</sup> calcite in mtx. All units are high grade, $\bar{w}$ est Pb+Zn 20%. At 244' a calcite + py infilled fracture 15° to core axis which is locally vuggy. Core is intact. Recovery is good. 4J $\bar{w}$ irregular textures contains minor irregular bands of Py. 4G is locally slightly porous due to weathering of mtx calcite.	
	12418	0	(76.9) 12512	4					114	4	11214	<p>Moderately hard <math>\rightarrow</math> hard, creamy white, noncalcareous, siliceous phyllite to micaceous gtzite. S<sub>2</sub> surfaces are silvery-white consisting mainly of musc + gtz. Contains abundant laminae + stringers consisting of Py + diss<sup>-</sup> dark reddish sph // to S<sub>2</sub>. Some coarse grained peg- gtz + py + dol veins infilling steep fractures. Est Pb+Zn 3%. Total S<sup>=</sup> content 10-15%. Stringers of Py + Sph have their greatest concentration at the center of the unit &amp; becomes less prominent at both ends. Core is intact. Recovery is good.</p> <p>No faults.</p>
	12512	4	(80.1) 12612	B					115	4	117	<p><math>\pm 1 \pm 5</math> mod. oxidized</p> <p>Dark, brassy, thickly laminated Py S<sup>=</sup>. Contains 10-20 cm intervals which are very calcareous <math>\bar{w}</math> diss cc in mtx. Locally these intervals are moderately porous. Entire interval contains steep fractures which are 45° to core axis. Fractures are irregular + contain CC + Qtz. Locally are vuggy due to weathering out of carbonates.</p>

Code	From		To		Recov.		No.		Unit		Description
	10	14	16	20	22	24	26	28	30	34	
											Pyritic sulphides adjacent to fractures generally have higher CC in matrix. Est Pb+Zn 7%. Core intact. Recy is GOOD.
	21628		21689					116	4161418		# [4E468 #] Tan → reddish brown, thickly laminated, moderately hard, baritic pyritic S <sup>=</sup> unit is slightly → moderately calcareous w/ less calcite in mtr. Contains thin streaks of fine mag specks. Both reddish-brown + brassy coloured sph present. Est Pb+Zn 12%. Est Py 40%. Core is intact except for 266.5 → 267.5 moderately broken on steep fractures 20° to core axis. Fractures contain gtz + CC. Recy is good.
	21689		21713					117	41E1418		\$1 Dark brassy-brown, hard, pyritic S <sup>=</sup> . Contains large clots/clasts of Mag w/ fine grained Py forming mtr. Also contains large clots/bands of coarse grained Dal. Lower part of interval contains minor reg-mutidic white gtz clots. Sph is less in Py mtr. & tends to be concentrated in selvages to clots. Total S <sup>=</sup> ≈ 70-75% w/ remainder Mag + Dal. Est Pb+Zn 12%. Upper contact // to S <sub>2</sub> . Lower contact is gradational. Core is intact. Recy is GOOD.
	21713		21716					118	41E118		0 ± 9 very minor Brassy-grey, very hard, siliceous, py. Noncalcareous. Qtz forms diffuse interstitial mtr for fine grained py. Contains diffuse py banding on a scale of 10cm. Est Pb+Zn 4%. Mag occurs as irregular clots elongate // to comp. banding.

Code	From		To		Recov.		No.		Unit		Description
	10	14	16	20	22	24	26	28	30	34	
											Core is intact. Recov. is GOOD. Very minor Cpy in fractures in gtz.
	1217	163	1218	139				119	14E11	W	879 ± 4 [4D4/879] (3C4\$) Trace. <span style="float: right;">slightly oxidized on fractures</span>
											Hard, thickly laminated, noncalcareous, pyritic S <sup>=</sup> . Sulphide intervals consist of py + base metals + mag w minor interstitial gtz. Interlaminated w S <sup>=</sup> are 1-3 cm thick musc + gtz laminae typically these siliceous / phyllitic intervals contain minor reddish Sp, bronze Po + splatcy Cpy. Est Pb + Zn 18%. S <sup>=</sup> content is 60-70%. Locally the gtz laminae define a delicate folding which appears to be Phase 2. At 277 a 10 cm interval of striped olive green + white microlithified chl + dol + gtz metabasite. Minor steep fractures infilled w gtz + carbonates are locally weathered to form vugs + pores. Overall, unit texturally looks like a alternation of sulphide deposition + clastic sedimentary pelite deposition. Core is intact TO 279.5 / 279.5 → 281.5 very broken along steep fractures / 281.5 → EOT slightly broken. Recov. is good through entire unit. No major faults seen. Mag. occurs as irregular clots + blebs in Sulphide rich intervals.
	1218	139	1218	167				1210	15B16		2479 1 minor
											Medium dark grey, PSz foliated noncalcareous, moderately hard, phyllite. S <sub>2</sub> surfaces are dark steel grey. Contains abundant irregular fractures + stringers of Sph, Py + Po. Overall the unit has a slight dark greenish cast because of chl selvages to S <sup>=</sup> stringers. Upper contact against sulphides is sharp. Lower contact is gradational over a few inches. Core is intact



CODE	FROM	TO	SAMPLE	INTR.	REC (m)	UNIT	DESCRIPTION
1	10 14 16 20 22 26 28 30 32 34 36 40 42						
	11010 9	11016 8	3102153	1	145	14A14	0
	11016 8	11019 8	3102154	1	139	14A14	
	11019 8	11115 0	3102155	1	146	14A10	
	11115 0	11119 4	3102156	1	147	14A10	
	11119 4	11213 9	3102157	1	149	14A10	
	11213 9	11218 3	3102158	1	148	14A10	
	11218 3	11312 1	3102159	1	147	14A10	
	11312 1	11317 0	3102160	1	150	14A10	
	11317 0	11411 1	3102161	1	146	14A10	
	11411 1	11415 1	3102162	1	149	14A10	
	11415 1	11419 5	3102163	1	149	14A10	
	11419 5	11514 0	3102164	1	150	14A10	
	11514 0	11517 7	3102165	1	150	14A10	4
	11517 7	11612 6	3102166	1	144	14A10	
	11612 6	11617 5	3102167	1	144	14A10	
	11617 5	11714 0	3102168	1	150	14A10	
	11714 0	11718 0	3102169	1	147	14A10	
	11718 0	11812 0	3102170	1	149	14A10	
	11812 0	11816 5	3102171	1	148	14A10	
	11816 5	11911 0	3102172	1	148	14A10	
	11911 0	11915 1	3102173	1	147	14A10	
	11915 1	11919 7	3102174	1	145	14A10	
	11919 7	12014 0	3102175	1	147	14A14	
	12014 0	12017 8	3102176	1	142	14A14	
	12017 8	12112 1	3102177	1	143	14A14	
	12112 1	12114 2	3102178	1	122	14E14	
	12114 2	12210 3	3102179	1	165	14K16	weak
	12210 3	12214 8	3102180	1	149	14K16	weak (4A0) 75:25
	12214 8	12216 0	3102181	1	120	14A14	#
	12216 0	12310 2	3102182	1	146	14L1716	weak
	12310 2	12312 2	3102183	1	120	14G1418	
	12312 2	12317 3	3102184	1	156	14K10	
	12317 3	12411 2	3102185	1	142	14L	
	12411 2	12415 7	3102186	1	155	14K174	slightly oxidized
	12415 7	12418 0	3102187	1	125	14G14	slightly oxidized
	12418 0	12512 4	3102188	1	144	14L1214	



Code	From			To			Feature	SYM	S <sub>0</sub>		S <sub>1</sub>		S <sub>2</sub>		Description					
	10	14	16	20	22	24			26	28	32	34	38	40		44				
S				13.0 14.2	S	P	S	12					6	10	2	2	10	Micaceous Foliation		
S				20.4 16.7	0	P	S	12					6	11	2	2	10	" "		
S				25.0 18.2	0	P	S	12					7	11	2	2	10	" "		
S				28.0 19.2	0	P	S	12					5	5	2	2	10	" "		
S				32.9 11.0	0	C	S	12			3	12	0	19	10	6	7	2	10	Carbonaceous Foliation in 4A
S				36.0 11.8	0	C	S	12			7	15	0	18	10	4	5	2	10	" " " "
S				41.5 11.3	0	P	S	12					7	10	2	2	10	" " " "		
S				43.3 11.4	0	C	S	12	Z		3	15	1	16	10	6	12	2	10	" " " "
S				46.0 11.5	0	C	S	12			4	10	0	19	10	3	16	2	10	" " " "
S				48.5 11.5	0	C	S	12	Z		5	16	1	17	10	3	17	2	10	" " " "
S				52.7 11.7	0	C	S	12	Z		7	17	1	17	10	3	19	2	10	" " " "
S				57.0 11.8	0	C	S	12	Z		4	18	1	17	10	4	18	2	10	" " " "
S				61.6 12.0	0	C	S	12	S		5	0	0	0	0	7	15	2	10	" " " "
S				64.3 12.1	0	P	S	12					5	18	2	2	10	" " " "		
S				68.6 12.2	5	P	S	12					7	13	2	2	10	Micaceous Foliation		
S				72.5 12.5	0	P	S	12					6	18	2	2	10	" "		
S				81.1 12.6	0	P	S	12					6	18	2	2	10	Compositional Banding in 4G		
S				87.5 12.8	0	P	S	12					9	10	2	2	10	Micaceous Foliation		
S				88.7 12.9	0	P	S	12					6	10	2	2	10	" "		
S				91.7 13.0	1	P	S	R					7	5	2	2	10	Micaceous Foliation		
<del>EOH</del>																				

Fault Log

Code	FROM		TO (At)		Feature	REG	UPPER Dip Direct		INTERNAL Dip Direct		LOWER Dip Direct		Description
	10	14	16	20			22	24	26	28	32	34	
F	101	101	1310	0	WIP	0							Triconed
F	1310	0	1320	0	IP	2							25% recovery of Till
F	1320	0	1370	0	13B	7							very broken - 78% recovery
F	1370	0	1610	0	13B								very broken - reasonable recovery
F	1610	0	1650	0	31B	R	6						very broken & rubbly - 65% recovered
F	1650	0	1858	0	R	13B							very broken w/ local short rubble intervals - core recovery reasonable
F	1858	0	1910	0	31B	R							very broken & rubbly
F	1818	0	1819	0	11G	5							incipient gouge - 50% recovery
F	1910	0	1915	8	13B								very broken core
F	1958	0	11010	9	13B								very broken - recovery OK
F	11012	0	11016	0	13B	5							very broken - 57% recovery
F	11019	8	11613	5	11B								intact w/ short slightly broken intervals
F	11613	3	11712	8	R	13B							very broken & slightly rubbly
F	11618	5	11712	0	IP	4							43% recovery
F	11712	8	11919	7	12B								mod to slightly broken w/ good recovery
F	12112	1	12114	2	11				210	01010			steep fractures 0-20° core axis
F	12114	2	121210	3	11B								core intact to slightly broken
F	121210	3	121214	8	12B								mod broken - recovery good
F	121214	8	121216	0	ID								Ductile flow texture in 4H
F	121216	0	121310	2	12B								mod. broken
F	121310	2	121310	7	ID								pegmatite qtz & 4x6 phyllite clasts in 4G
F	121411	2	121412	7	ID								Ductile flow bxa in 4H
			121414	0	11				15	01010			fracture 15° core axis cc+py in locally wuggy
F	121616	5	121617	5	12B				210	01010			mod broken on steep fractures - 20° core axis
F	121719	5	121811	5	J	13B							very broken on steep fractures
	121811	5	121813	9	11B								slightly broken
	121816	7	121915	0	11B								slightly broken
	121915	0	131011	5	12B								mod. broken

PROJECT LANGORDA DRILLHOLE NO. R7V-27 COORDINATES: N \_\_\_\_\_ DATE Nov 22 1987  
 LOCATION \_\_\_\_\_ HOLE SIZE NQ E \_\_\_\_\_ PAGE of \_\_\_\_\_  
 LOGGER LCP + VLR INCLINATION -90° 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		COMMENTS	
		LENGTH	%	LENGTH	%		CATEGORY	NO.			DEPTH	ANGLE	NO.	FREQ.	NO.	FREQ.		
30																		TRICONE D
32		0.4		0														
37		0.9		0														
42		5.4		0														
47		5.8		0.8														
52		4.8		0														
56		3.6		0.4														
61		4.5		0.4														
65		2.6		0														
67		2.0		0														
71		4.5		0														
75		3.5		0														
80		5.4		0.5														
82		2.0		0.4														
85		3.0		0														
89		3.3		0														
92		2.6		0.4														
95		3.7		0														
99		3.4		0														
102		2.2		0.4														
106		1.9		0														
110		5.2		3.8														
116		5.5		3.6														
121.5		5.4		4.1														
126.5		5.3		3.8														
131.25		5.2		4.4														
132		0.8		0														

Fig. 1. Typical rock mechanics core log.

PROJECT VANGORDA DRILLHOLE NO. 97V-27 COORDINATES: N \_\_\_\_\_ DATE NOV 22 1987  
 LOCATION \_\_\_\_\_ HOLE SIZE NQ E \_\_\_\_\_ PAGE    of     
 LOGGER LCP & CVR INCLINATION +90° 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		COMMENTS
		LENGTH	%	LENGTH	%		CATEGORY	NO.			DEPTH	ANGLE	NO.	FREQ.	NO.	FREQ.	
139		4.5		4.0													
142		5.2		2.7													
147		5.4		1.8													
151		4.4		1.2													
156		5.3		1.8													
161		4.0		2.5													
164.5		3.2		0													
168.5		3.4		0													
172		1.5		0													
177		5.0		1.3													
182		5.3		0.4													
187		5.2		1.7													
192		5.0		2.3													
197		5.2		2.5													
202		4.6		1.9													
207		5.5		1.9													
212		5.0		3.8													
217		5.2		3.2													
222		5.0		1.7													
227		5.5		1.4													
232		4.8		2.5													
237		5.2		3.6													
242		5.3		3.0													
247		5.4		4.0													
252		5.0		3.4													
257		5.3		4.2													
262		5.1		3.7													

Fig. 1. Typical rock mechanics core log.



| 87V-28 |

DIAMOND DRILL CORE LOG

Date: \_\_\_\_\_

Hole Number: 87V-28

Reference Fabric Orientation Diagram:

Project: 1987 Vangorda drilling

*Bentonite for overburden*

Location: Vangorda deposit

*Revert for casing*

Claim: \_\_\_\_\_

Terr. Plane Co-ords.: 6903627.76 N

594003.26 E

Grid Co-ords: 03W / +6.0

Elevation: 1174.47

All symmetry determinations looking

Total Depth: 152 feet (46.3 m)

NW with S2 dipping

Inclination: -90° (vertical)

SW with dip azimuth \_\_\_\_\_.

Purpose: piezometer hole on NE margin of Vangorda pit

Reason hole Terminated: desired depth reached

Logged by: CVR + LCP

Date(s) Logged: Nov 25 / 1987

Drilling Contractor: ARCTIC DIAMOND DRILLING

Hole Cemented: No Steel down Hole: No

Size	CORE From	To	Collar Cased and Capped: <u>No</u>
<u>NW</u>	<u>0</u>	<u>30</u>	
<u>NQ</u>	<u>30</u>	<u>152</u>	

Assay Lab: MINE

Certificate No's: \_\_\_\_\_

Started: Nov 17 / 87 Completed: Nov 19 / 87



Code	From				To				Recov.	No.	Unit	Description
	10	14	16	20	22	24	26	28				
L		00		<sup>9.1</sup> 1310	0					11	#1	Taconed - No recovery
L		1310	0	<sup>14.5</sup> 1417	5					12	51B101	moderately weathered Moderately soft, locally CS2 foliated, light gray, calcareous phyllite. Cc occurs in thin white cc-gtz siltstone laminae commonly defining micro-lithons. S2 surfaces are medium shiny gray. Broken surfaces have patchy rust orange oxidation coating. Dull yellowish fungus on cut surface due to oxidation. Unit very foliose & rather chippy. Only 4.8' core for entire interval. Difficult to tell where core lost - except probably throughout - related to top of hole.
L		1417	5	<sup>16.9</sup> 1515	3					13	51B1210	±1 (10Q0) moderately weathered 95'05 Dark gray to locally black, dominantly PS2 foliated, calcareous, moderately carbonaceous phyllite. Contains abundant cc lenses in matrix and in thin white laminae. Cc more abundant in lighter colored intervals. Locally cc laminae define micro-lithons. S2 surfaces med. to dk gray and do not mark fungus. Patchy yellow-orange weathering on broken surfaces and only slight weathering on cut surface. Local minor thin fractures filled w/ fine py, white cc and minor qtz. Contained within unit are 2-3" foliform paguatic qtz veins. Core extremely broken & rubbley & rather chippy. Recovery OK. At 54-55 notable increase in white qtz - appears to occur in bands parallel S2 about 4" thick. Phyllite is very hard - (±1).
L		1515	3	<sup>18.7</sup> 1612	0					14	51F131	(10Q0) TRACE Moderately soft, pale grayish olive-green, dominantly CS2 laminated, very calcareous, chloritic phyllite. S2 surface pale light olive green w/ gray patches. Chloritic

Code	From		To		Recov.		No.		Unit		Description
	10	14	16	20	22	24	26	28	30	34	
											forms thin laminae defining S1 and S2 fltns Abundant cc disseminated in matrix and defining laminae. Minor fractures infilled w/ calcite & minor pyrite. Cashed @ 57' in 3" pegmatitic white qtz veins w/ dk green chlorite infilling fractures. Core extremely broken / recovery OK.
L	1612	0	1718	8					15	15B61	±2±0±1(5D0)(5F3) 70:05:25
											Major unit is soft, locally slightly calcareous, light gray w/ local dark gray to black phyllite. Micro-lithon texture well-developed locally; defined by thin qtz ± cc siltstone laminae. At 73.7-74.1 phyllite is black, moderately hard, slightly calcareous. In this interval it could be considered as carbonaceous, siliceous SA10 phyllite. Contains fine py dissem w/ qtz-cc in siltstone laminae. S2 surfaces are light gray to very dark gray. Interbedded w/ 5B are soft, pale green, dominantly P52-foliated chloritic phyllite. Thickness range 1"-6" Contacts are sharp and parallel S2. These 5D intervals are only very slightly calcareous. S2 surfaces are pale silvery olive green. TOI-72.5' very calcareous, CS2-laminated, pale greenish gray, soft phyllite. These interbeds are very similar to Unit #4 (55.3-62.0). These bands are 5"-1.5' thick. Thickest interval 65.5-67'. Contacts are sharp and parallel S2 into gray 5B slightly calcareous phyllites. Locally foliaform pegmatitic qtz veins are present largest is 3" thick. Core mod. broken to intact / recovery good.
L	1718	8	1812	5					16	15D101	± 3
											TOI-80.3 is P52 foliated, pale greenish gray, moderately calcareous, chloritic phyllite. S2 surfaces are pale silvery green. Cc occurs in thin siltstone-type

Code	From	To	Recov.	No.	Unit	Description
	10 14 16	20 22 24	26 28	30 34 35		
						laminar & also fills thin fractures. In one thin laminae have paper thin carbonaceous folia (total lamina 4-5mm thick).
						80.3-50L pale green, very calcareous, chloritic phyllite. Relict diabasic texture almost visible. Laminae only locally developed. S <sub>2</sub> foliation is pervasive. Very minor local clots of bright green "fuchsite" (chromic chlorite). Cc abundantly dissemin in matrix & concentrated in thin white laminae    S <sub>2</sub> . Unit slightly biten / recovery good. One po pough noted.
L	8125	<sup>30-2</sup> 9192		17	15B1612	(500) 80:20 Dominant unit is dark grey, noncalcareous, moderately soft, locally CS <sub>2</sub> foliated phyllite. Contains some intervals of altered phyllite where consists of pale olive green chlorite. Looks like carbon "bleached" out of the phyllite. Commonly thin foliaform bull pt assoc w/ "green intervals". Contact At 86' and 90' have 1' thick intervals of very calcareous, pale green, moderately soft, chloritic phyllite. Unit slightly more laminated than last unit # 6 (78.8 - 82.5). Cc content is similar to last unit. Contacts are sharp and parallel S <sub>2</sub> . S <sub>2</sub> surfaces are pale silvery green. S <sub>2</sub> surfaces of 5B are dark grey to locally black in more carbonaceous intervals. Core mod. biten / recovery good.
L	19192	<sup>33-1</sup> 110187		18	15A161	Dark grey to black, locally CS <sub>2</sub> foliated, carbonaceous, noncalcareous phyllite. Microlithons defined by extremely thin pt siltstone laminae. S <sub>2</sub> surfaces are shiny black and only slightly mark the fingers. Core very biten to locally paken chippy. Recovery good. Moderately soft

Code	From			To			Recov.			No.			Unit	Description
	10	14	16	20	22	24	26	28	30	34	35			
	110	14	16	20	22	24	26	28	30	34	35			
	110	14	16	20	22	24	26	28	30	34	35	19	15A161	Gauge & rubble (4E1) Trace (5A109)
														TOI-112 Black, incipient gauge w/ small chips of black carbonaceous phyllite
														Internal contact has dips 22° core axis (S2 adjacent to it is 70° core axis)
														Recovery is only 7" (0.5') — 5A6
														112-117.2 5" of fragmented recovery brassy yellow py w/ fine interstitial grey qtz. mixed w/ black carbonaceous phyllite. Phyllite fragments appear to have 4A affinities Possible fragments in fault zone? — 4E1
														117.2-122 mod siliceous, S2 foliated, black carbonaceous phyllite. It is calcareous in thin siltstone laminae defining microlithons Very fine py lenses in qtz laminae & in steep features Begins to look like 4A affinities — 5A109
														lost about 2.5' core.
														122-E02 soft, black, incipient carbonaceous gauge w/ fragments of more competent S2-foliated phyllite. 1.5' core recovered. — 5A6
														Overall core status is rubble likely a significant fault less than 25% recovery overall.
L	112	14	16	20	22	24	26	28	30	34	35	110	14E11	(4A0) 90:10
														Homogeneous, brassy yellow grey, extremely hard, moderately siliceous massive py
														Noncalcareous Interbedded with dark grey-black, ribbon-banded, noncalcareous, carbonaceous slate. Qtz-py bands parallel S2 and <1cm thick. Margins of 4A are gradational to 4E1 over 1" distance w/ increase of carbon + qtz and decrease in py. Contact w/ 5A lost in rubble Core extremely broken to rubble Recovery TOI-120 lost 1/2' core / remainder has OK recovery.

DDH B.F.V.-28  
2 8

CURRAGH RESOURCES INC.  
Lithologic Log

Date: Nov 25/87 Logged By: CVR/LCP

Code	From				To				Recov.				No.				Unit	Description			
	10	14	16	20	22	24	26	28	30	34	35	10	14	16	20	22			24	26	28
L	113	102	115	120								111								15A161	± 9 ± 1 ± 0 micov
																					Mod. soft to locally med. hard, dominantly noncalcareous, CSS foliated, carbonaceous phyllite. Contains local fine-grained gtz laminae w/ dissem. fine-grained pyg. Contact @ 132' thin 3" interval w/ cc-gtz siltstone laminae. Unit contains local thin steep fractures infilled w/ py and cc. Unit very fissile & breaks easily on SW surface. Core extremely broken & rubbley. TOE-132 only 1.6' core / 132-144 5' core spread out w/ mismatch @ 144' 144-152' recovered 4" fragmented pegmatitic gtz.
																					EOH



Fault Log

Code	FROM		TO (At)		Feature	G L E E	UPPER Dip Direct		INTERNAL Dip Direct.		LOWER Dip Direct		Description
	10	14	16	20			22	24	26	28	32	34	
F	1101		1310	0	1NIP	0							Triconed - no recovery
F	1310	0	1417	5	3IBIT	2							very broken & polars chips - 27% recovery
F	1417	5	1515	3	3IBIR								very broken & rubble
F	1417	5	1515	3	3IT	1							very polar chipping
F	1515	3	1612	0	13IB								very broken - recovery OK
			1517	0	11Q								8" qtz vein
F	1612	0	1718	8	11IB								mod broken to intact
F	1718	8	1812	5	11IB								slightly broken - recov. good
F	1812	5	1919	2	12IB								mod. broken - recovery good
F	1919	2	11018	7	T13IB								very broken to locally polar chipping
F	11018	7	11112	0	1FIG	1			212	01010			black gouge - 15% recovery
F	11112	0	11117	1	1FIG	0							recovered 5" of py
F	11117	0	11212	0	1FIG	5							50% recovery
F	11212	0	11217	3	1FIG	3							30% recovery
F	11018	7	11217	3	13IR								rubble
F	11217	3	11310	2	3IBIR	2							very broken to rubble
F	11217	3	11218	0	1IP	2							28% recovery
F	11310	2	11312	0	3IBIR	8							very broken & rubble - 80% recovery
	11312	0	11414	0	3IBIR	4							40% recovery
			11414	0	1M								misatches
	11414	0	11512	0	3IBIR	0							very broken & rubble - 4" fragmented pegmatite qtz

PROJECT \_\_\_\_\_ DRILLHOLE NO. B7V-28 COORDINATES: N \_\_\_\_\_ DATE Nov 25 1987  
 LOCATION \_\_\_\_\_ HOLE SIZE N2 E \_\_\_\_\_ PAGE    of     
 LOGGER \_\_\_\_\_ INCLINATION -90° 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		COMMENTS	
		LENGTH	%	LENGTH	%		CATEGORY	NO.			DEPTH	ANGLE	NO.	FREQ.	NO.	FREQ.		
30		0		0														<i>Terminated</i>
32		0.4		0														
37		1.8		0														
47		2.2		0														
50		2.7		0														
55		4.8		0														
58.5		3.0		0														
62		3.2		0.4														
67		5.1		0														
72		4.8		1.8														
77		5.2		0.8														
82		5.0		2.2														
87		5.3		0.4														
92		3.3		0														
97		5.3		2.0														
102		5.0		0.8														
107		5.1		0.4														
112		2.5		0														
117		0.4		0														
122		2.3		0														
127		1.6		0														
128		0.4		0														
132		3.3		0.4														
137		2.4		0														
144		1.6		0														
152		0.5		0														<i>mislabel @ 144'</i>

Fig. 1. Typical rock mechanics core log.

DIAMOND DRILL CORE LOG

Date: \_\_\_\_\_

Hole Number: 87V-29

Reference Fabric Orientation Diagram:

Project: 1987 Vangorda Drilling

bentonite for overburden

Location: Vangorda deposit

revert for coring

Claim: \_\_\_\_\_

Terr. Plane Co-ords.: 6903522.16 N

593830.34 E

Grid Co-ords: 04, <sup>3</sup>W / -0.6

Elevation: 1151.82

All symmetry determinations looking

Total Depth: 202 feet (61.6 m.)

NW with 52 dipping

Inclination: -90° (vertical)

SW with dip azimuth 220.

Purpose: piezometer hole NW of deposit

Reason hole Terminated: reached desired depth

Logged by: LCP + CVR

Date(s) Logged: Nov 24-25 / 1987

Drilling Contractor: ARCTIC DIAMOND DRILLING

Hole Cemented: No Steel down Hole: No

Size	CORE From	To	Collar Cased and Capped:
<u>NW</u>	<u>0</u>	<u>20</u>	<u>No</u>
<u>NQ</u>	<u>20</u>	<u>202</u>	

Assay Lab: MINE

Certificate No's: \_\_\_\_\_

Started: Nov 19/87 Completed: Nov 21/87



Code	From		To		Recov.		No.		Unit		Description
	10	14	16	20	22	24	26	28	30	34	
		10 0	13 0	0				1		#1	TRIMMED - NO RECOVERY
		3 10 0	13.4 4 4 0					2		#1	TILL Exclusively 10 AB Bio + Musc 10 AB Anvil Bath Boulders. No mud matrix recovered. Largest piece 15cm $\phi$ . 7' of core recovery.
		4 14 0	14.3 4 6 0					3		#1	TILL? Consists of 10 AB musc + bio sand.
		14 16	22.9 17 5 0					4		15A16	$\pm 1$ very minor Very weathered. Soft, noncalcareous, PS <sub>2</sub> foliated dark grey phyllite. The cut surface is typically weathered to a greenish dark grey. S <sub>2</sub> surfaces contain a strong orange-brown iron oxide coating. Visible on cut surface is a thin laminae striping    to S <sub>2</sub> which is presumed to be fine py + qtz siltstone bands. The interval from 57 $\rightarrow$ 60' consists of fragments of a hard, carbonaceous, siliceous phyllite. Where not so strongly weathered, S <sub>2</sub> surfaces are a dull sooty $\rightarrow$ shiny black. The core is very broken in incipient gorge at 52' + 69'. TOI $\rightarrow$ 64 recy is < 50% / 64 $\rightarrow$ FOI, recy > 90%.
		17 5 0	33.1 11 0 8 7					5		15A16	$\pm 1$ slightly weathered. Black, PS <sub>2</sub> foliated, noncalcareous, moderately soft to locally hard carbonaceous phyllite. S <sub>2</sub> surfaces are dull $\rightarrow$ shiny black in patchily developed orange-brown rusty weathering coating. Locally, the qtz + py laminae weather to a tan-brown.

Code	From	To	Recov.	No.	Unit	Description
1	10	14 16	20 22 24	26 28	30 34 35	
						101 → 84 moderately broken, Recov is O.K. / 84 → 88 is very broken 1' of core loss and is more weathered. / 88 → 92 moderately broken w good recov, / 92-97 very broken, recov is O.K. There is a 5cm gouge at 93 / 97 → EOI moderately broken 102 → 107, only 1.5 feet core, abundant redilled rubble near 102.
	110B7	111 23 <sup>34.2</sup>		16	15A16	Noncalcareous, black, PS <sub>2</sub> foliated, moderately soft phyllite. S <sub>2</sub> surfaces are shiny black. Contains thin qtz siltstone laminae & fine py streaks. Unit is only slightly weathered w patchy orange-brown coatings on S <sub>2</sub> surfaces. Core is slightly broken. Recov is O.K.
	111 23	111 53 <sup>35.1</sup>		17	11D1Q0	Fractured, pegmatitic, white qtz vein. Locally slightly wussy along fractures. Broken surfaces have orange-brown weathering coating Unit is very broken & rubble. Recov is O.K.
	111 53	112 75 <sup>38.9</sup>		18	15A16	± 1 minor. Black, noncalcareous, PS <sub>2</sub> foliated, phyllite. S <sub>2</sub> surfaces are carbonaceous black. Contains thin qtz siltstone laminae. Minor steep fractures locally wussy because of weathered carbonate. Core is very broken → rubble. 117 → 122 1' of core loss / 122 → 127, 2' of core loss. Core loss could be associated w qtz veins. Phyllite near TOJ is moderately hard & moderately siliceous.

Code	From				To				Recov.		No.		Unit	Description
	10	14	16	20	22	24	26	28	30	34	35			
	11217	5	<sup>44.7</sup> 11416	5							19		15A10	
														Moderately soft, black, phyllite to thin qtz + calcite siltstone laminar. Dominately PS <sub>2</sub> foliated although locally siltstone laminae define microlithons. Contains thin streaks of fine py // to S <sub>2</sub> . S <sub>2</sub> surfaces are black. TOI → 137 slightly broken. Recov good   137 → FOI very broken → rubble. Starts to contain abundant calcite veins in fractures. Bottom 1' is gouge, contacts appear to be // to S <sub>2</sub> . 137-142 recov 3 1/2' 142 → FOI recov 3 1/2'
	11416	5	<sup>57.2</sup> 11817	7							110		15A16	± 1 minor
														Moderately soft → locally moderately hard PS <sub>2</sub> foliated non-calcareous, black phyllite. S <sub>2</sub> surfaces shiny black + strongly mark fingers. Contains minor, extremely thin qtz-siltstone laminae. Contains small angular py porphs + thin py streaks // to S <sub>2</sub> . Lower part of interval contains minor scattered Po porphs. (noticeable below 180'). TOI → 153 moderately broken. 1/2' of core loss.   153' → 155.5 very broken → rubble. 1/2 foot of core loss. 155.5 → 161 moderately broken. Recov O.K.   161 → 167' very broken, recov is O.K.   167 → 183 very broken + rubble 167 → 172 only 1/2' of core   172 → 179 2 1/2 feet core recovered. Includes a piece of re-drilled granite → core.   179 → FOI recov is O.K., 183 → FOI core slightly broken.

DDH 87.V-29  
2 8

CURRAGH RESOURCES INC.  
Lithologic Log

Page 6 of \_\_\_\_\_

Date: NOV 25/87 Logged By: LP & CVR

Code	From				To				Recov.				No.				Unit				Description
	10	14	16	20	22	24	26	28	30	34	35										
	11	18	17	7												11	11	15	A10	(SGO [3F9]) 80:20	
																				Moderately soft, PS <sub>2</sub> foliated, dark grey → black, moderately calcareous, carbonaceous phyllite. Calcite occurs w/ gtz + minor py in thin siltstone bands. S <sub>2</sub> surfaces are shiny dark grey → black. Contains intervals up to 15 cm thick of black fine grained carbonaceous marble. Marble contains class- py + po. Marble is characterized by thin, white, beaded, calcite streaks + laminae. TOT → EOI unit is moderately broken in short rubble sections at 197 1/2' + 202'. Recov is GOOD.	
																				- EOH -	



Fault Log

Code	FROM		TO (At)		Feature	REG	UPPER Dip Direct		INTERNAL Dip Direct		LOWER Dip Direct		Description
	10	14	16	20			22	24	26	28	32	34	
F	101	1310	0	11P0									Tricomed - no recovery
F	1310	1414	0	1P5									50% recovery
F	1416	164	0	13B4									very brlen - recovery <50%
F	164	175	0	13B9									very brlen - recovery >90%
F		152	0	11G									} incipient gouges
F		1619	0	11G									
F	175	184	0	12B									mod. brlen
F	184	188	0	13B7									very brlen - 75% recovery
F	188	192	0	12B									mod. brlen - good recovery
F	192	197	0	13B									very brlen - recovery OK
F		193	0	11G									5cm gauge
F	197	11018	7	12B									mod. brlen
F	11012	11017	0	1P3									30% recovery
F	11018	1112	3	11B									slightly brlen - recovery OK
F	1112	1115	3	31B1R									very brlen & rubble
F	1112	1115	3	1Q									qtz veins
F	1115	11217	5	31B1R									very brlen & rubble
F	1117	1122	0	1P8									30% recovery
F	1122	1127	0	1P6									60% recovery
F	1127	11317	0	11B									slightly brlen - recovery good
F	11317	11415	5	31B1R									very brlen to rubble
F	11415	11416	5	1B7				919	919	919			gauge - 77% recovery
F	11317	11412	0	1P7									70% recovery
F	11412	11415	5	1P7									77% recovery
F	11416	11513	0	12B8									mod. brlen - 84% recovery
F	11513	11515	5	31B1R8									very brlen & rubble - 80% recovery
F	11515	11611	0	12B									mod. brlen - recovery OK
F	11611	11617	0	13B									very brlen - recovery OK
F	11617	11813	0	31B1R									very brlen & rubble
F	11617	1172	0	1P1									10% recovery
F	1172	11719	5	1C1P3									3.3% recovery
F													same core
F	11813	11817	7	11B									slightly brlen
F	11817	12012	0	12B									mod. brlen
F		11917	5	1B									rubble

2 020 R

rubble EOH

PROJECT VANGORDA DRILLHOLE NO. 87V-29 COORDINATES: N \_\_\_\_\_ DATE NOV 25 1987  
 LOCATION \_\_\_\_\_ HOLE SIZE NQ E \_\_\_\_\_ PAGE    of     
 LOGGER LCP + CVR INCLINATION -90° 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		COMMENTS	
		LENGTH	%	LENGTH	%		CATEGORY	NO.			DEPTH	ANGLE	NO.	FREQ.	NO.	FREQ.		
30		0		0														TRIMMED
35		3.5		0														
40		2.5		0														
42		0.5		0														
44		1.0		0														
48		2.0		0														
52		1.3		0														
57		2.1		0														
61		2.0		0														
64		1.5		0														
69		3.3		0														
72		4.1		0														
77		4.5		0														
82		3.2		0														
87		3.5		0														
92		4.0		1.0														
97		4.3		0														
102		5.0		0.4														
107		1.5		0														
112		4.6		2.3														
117		5.2		0														
122		3.8		0														
127		3.5		0														
132		4.6		2.0														
137		5.0		2.1														
142		3.7		0														
147		3.6		0														

Fig. 1. Typical rock mechanics core log.



1981 AX, ~~XXXX~~  
HOLES

66 W

DIAMOND DRILL CORE LOG

Date: \_\_\_\_\_

Hole Number: 87V-25

Reference Fabric Orientation Diagram:

Project: 1987 Vangorda Drilling

Location: Vangorda deposit

Claim: \_\_\_\_\_

Terr. Plane Co-ords.: 6903200.30 N

594165.90 E

Grid Co-ords: 11E / + 0.5

Elevation: 1160.13

All symmetry determinations looking

Total Depth: 272 feet (82.9m)

NW with 52 dipping

Inclination: -90° (vertical)

SW with dip azimuth 220.

Purpose: reserve definition + met. samples + piezometer hole

Reason hole Terminated: drilled through ore into footwall phyllite

Logged by: CUR + KCP

Date(s) Logged: Nov 20-21/1987

Drilling Contractor: ARCTIC DIAMOND DRILLING

Hole Cemented: No Steel down Hole: No

Size	CORE From	To	Collar Cased and Capped:
<u>NW</u>	<u>0</u>	<u>90</u>	<u>No</u>
<u>NW</u>	<u>90</u>	<u>272</u>	

Assay Lab: MINE

Certificate No's: \_\_\_\_\_

Started: Nov 11/87 Completed: Nov 12/87



Code	From	To	Recov.	No.	Unit	Description
	10 14 16 20 22 24 26 28 30 34 35					
L	100	27.4 1910		11	#1	Triconed - no recovery, assumed overburden.
L	1910	29.0 1915		12	4/1A101	extremely weathered Broken pieces of hard, non-calcareous, dark gray to black quartz. Contains abundant soft yellow-orange weathering coating on fracture surfaces and cut surfaces. S2 folia are dull dk gray to black & leave black film on fingers. Vague gk-py banding seen in some pieces. Top 1" of core recovered is redrilled piece of granite. Core very broken & rubble. Only 2.7' recovered. No grade noted.
L	1915	33.3 11019	1	13	141A1014	GAUGE Dark black, carbonaceous mud w/ minor fine pyrite pyrites. Top 3-4" of unit are small fragments of 4A0 similar to last unit but lacking the orange-yellow surfaces. Both contacts lost during casing. Only 1.1' recovered. likely a significant fault.
L	11019	34.7 11114		14	141E1014	very weathered Hard, locally porous, brassy yellow, homogeneous, fine-grained, non-calcareous, massive py. Porous in intervals < 2" thick parallel compositional banding - likely due to weathered carbonate. Orange-brown coating on fracture surfaces and locally on cut surfaces. At 110.5' fracture // compositional banding which may be fault-related. Along fracture have S <sup>2</sup> mud which is dk brown - locally orange-weathered - probably related to high degree of oxidation. Unit very broken w/ rubble intervals @ 110.5 and 113 - EOI. Grade only 2% (Pb+Zn). Only 2.7' of core.

Code	From		To		Recov.		No.		Unit		Description
	10	14	16	20	22	24	26	28	30	34	
L	11140		11202						5	14E48	± 6 ± 8 moderately weathered
											Hard, light brown - locally brassy yellow, poorly banded pyritic S <sup>2</sup> . At TOI for 8" have light barite interbed w/ abundant dissem light brown sphal. As go down sh - increasing amt of dk grey magnetite forming bands and blebs. Bands generally < 2-4cm thick. Blebs < 2mm thick. 119'-EOI thin diffuse bands of blonite commonly associated w/ black magnetite blebs. Bands are parallel to "pervasive" compositional banding. Total S <sup>2</sup> 85% w/ remainder blonite, magnetite, + some barite. Estimated grade 9-10% (Pb+Zn) locally core broken along steep fractures 30° core axis. Fracture surfaces commonly have orange-yellow weathering coating. Only patchy weathering seen locally on cut surfaces. Core TOI-115 slightly broken / 115-116.7 very broken / 116.7-EOI intact w/ 1 local rubble zone @ 119 (end-of-run). Recovery good.
L	11202		11310						16	14G41#	± 8 minor slightly weathered
											Moderately hard, yellowish tan, thickly laminated to thinly banded, calcareous, baritic S <sup>2</sup> . Abundant honey coloured sphal in bands up to 1cm thick parallel S <sub>2</sub> . Cc occurs dissem. in matrix and frequently infills steep fractures. Core also locally porous along fractures due to weathered cc. Commonly fracture surfaces have greenish yellow surface coating which fizzes slowly in 10% HCl. Also porous in minor amt in thin bands parallel compositional banding due to weathered carbonates. Magnetite occurs locally as tiny blebs dissem. in matrix. Total S <sup>2</sup> 60-70% w/ remainder mainly barite. Estimated 15% (Pb+Zn). Core very broken / recovery OK. No obvious faults.

Code	From		To		Recov.		No.		Unit		Description
	10	14	16	20	22	24	26	28	30	34	
L	11311	0	<sup>(41.3)</sup> 11317	0					17	4E1414	→ 4F slightly oxidized Dk brown, moderately hard, homogeneous, noncalcareous, base-metal rich, pyritic S= Abundant dk brown sphal + gal in matrix w/ fine angular py porphs Uppermost 0.5' consists of brassy yellow, poorly laminated pyrite w/ minor cc in thin steep fractures Estimated grade 20% (Pb+Zn) Core very broken along steep fracture system < 10° core axis About 80% recovery No faults Minor white surface coating on fractures - smithsonite?
L	11317	0	<sup>(46.9)</sup> 11514	0					18	4E1410	porous slightly weathered light yellowish green, moderately hard to locally soft, dolomitic, pyritic S= Abundant dolomite dissem in matrix & in thin bands parallel S <sub>2</sub> locally dolomite weathered to give porous vuggy texture - in places breaks into friable sandy py interbeds locally very minor dk brown base-metal bands. Total S= 30% w/ remainder dolomite. Weathering confined to dolomite - weathers to light greenish tan coating along broken parts of core. Overall grade 2-3% (Pb+Zn) Mod. broken to locally very broken on steep fractures No major fault TOI-142 only 2.8' core / recovery not bad for rest of unit
L	11514	0	<sup>(51.9)</sup> 11710	3					19	4I6141	± # (4E46±#) 70:30 slightly oxidized Mixed unit Dominant unit light tanish brown, locally calcareous, poorly banded, moderately hard, basic S= Banding defined by variations in tan sphalerite locally unit disintegrated to rubble along steep fractures. Interbedded w/ basic S= is yellowish brown, thinly banded, slightly basic, massive pyritic S= Banding defined by dk brown sphal parallel S <sub>2</sub> . Dissem throughout unit as subangular white cc clasts up to 1cm across commonly ass. w/ gray gta locally fine-grained cc dissem in matrix. Very slight patchy light tanish green surface coating (weathering) on fracture surfaces Total S= 80-85% overall. Grade 12-15% (Pb+Zn)

Code	From		To		Recov.		No.		Unit		Description
	10	14	16	20	22	24	26	28	30	34	
											Core very broken to locally rubbly. Rubbly due to steep fractures 0-15° core axis 160-165 2' core missing / 165-EOI about 1' core missing Recovery OK fine res +
L	11710	3	11714	0			1110		14E14		± # minor slightly oxidized Hard, fine-grained, locally slightly calcareous, massive, brass-yellow py. Locally has thin fractures infilled w/ yellow tan carbonate - likely arkerite. Total S = 95% Grade < 1% (Pb+Zn) Homogeneous. Core very broken - locally rubbly on steep fractures < 20° core axis. Some light yellowish green surface coating gabbly developed on fracture surfaces. Recovery OK.
L	11714	0	11912	0			111		14E14/16	# (4G4) 60:40 slightly weathered Hard, poorly banded, calcareous, yellowish brown, slightly banded, pyritic. S = Banding defined by reddish brn sphal. Barite occurs finely dissem. w/ base metals in pyritic S =. Cc also occurs in matrix; forms thin calcareous intervals/bands parallel S2. Minor amt of bands weathered out. Abundant thin steep fractures infilled w/ cc or locally weathered out. Interbedded w/ unit is lighter brown, poorly banded, noncalcareous banded S = Banding defined by reddish brn sphal on scale 1-2mm to 2-3cm thick. Contacts of banded intervals gradational into pyritic intervals. Entire unit very broken & locally rubbly on steep fractures < 20° core axis Some yellowish surface coating gabbly developed on fracture surfaces. Total S = 80-85% w/ remainder barite + cc. Total (Pb+Zn) = 10-12% About 1' core lost between 182-184. Between 184-187 1' lost / 187-192 3' lost No reason or suggested reason for core loss.	

Code	From		To		Recov.		No.		Unit		Description
	10	14	16	20	22	24	26	28	30	34	
L	119120		11970					112	1411612	±4	Soft, pale green, noncalcareous, altered chlorite-musc phyllite. S2 surface is dull light green to silvery green white. Locally hints of gray patchy seen on S2. Py as local fine-grained stringers. Fine sphal + gal. in 2 inch thick bands in bottom 5" of unit. Overall unit very fractured & disrupted along part S2 steep fractures < 5° core axis. Both upper & lower contacts sharp into massive S <sup>=</sup> . Upper contact lost in rubble. Lower contact steep fracture 20% core axis juxtaposes the 2 rock types - some displacement. Total S <sup>=</sup> 3%. Core very rubble and broken. Between 198-195 2' core lost 195-EOI recovery OK.
											25:45:17:13
L	119170		210186					113	141E144	porous (4G4) (4E01) (4A0) slightly oxidized	TOI-199 Hard soft to locally hard, dark brown, extremely high grade, noncalcareous, pyritic S <sup>=</sup> . Abundant reddish brown sphal w/ finely dissemin py occurs in bands up to 10cm thick. Bands are very weathered and porous. Estimated grade 16-18% (Pb+Zn) Py content 60%.
											199-201 Brassy yellow, hard, noncalcareous, fine grained, homogeneous py. It occurs in thin greyish bands parallel core axis & define comp. banding. These bands contain fine dissemin py.
											201-201.9 4D4 A+ bottom of massive py is 4"-5" band of fine-grained reddish sphal w/ dissemin py, grey qtz, barite(?). Band 38° core axis. Bottom of band is soft pale patchy grey & green altered phyllite transitional into grey gouge. Gouge contact 38°.
											201.9-203.5 rubble of dk grey to black, P52 foliated, carbonaceous qtzite. Trans of qtz-py bands seen in fragments. S2 surface dk grey to black. Both contacts lost in rubble w/ considerable core loss.

Code	From		To		Recov.		No.		Unit		Description
	10	14	16	20	22	24	26	28	30	34	
											<p>203.5-EOI 464 thinly bedded, noncalcareous, brown &amp; yellow striped, baritic-pyritic S<sup>2</sup>: Banding defined by fine pyrite bands and reddish brown sphal. Total S<sup>2</sup> 70% Grade 10-12% (Pb+Zn). Locally fractures infilled w/ dolomite which may be weathered to vuggy nature. TOI-199 very broken - probably lost 0.5' core. locally rubble 199-202 very broken w/ 1.9' core recovered 202-205 rubble 0.4' core recovered 205-EOI core very broken to rubble around 208. 2.2' core recovered Probable fault contact near 202 causing gouge and core loss.</p>
L	121018	6		121317					114	141614	<p>± 8 slightly oxidized light tan, noncalcareous, finely bedded, high grade baritic S<sup>2</sup>: Banding defined by diffuse fine-grained py and honey coloured sphal on scale 1-2mm to 3-4cm. Magnetite occurs locally as elongate fibrous streaks &amp; finely dissemin. specks. Locally core very broken on steep fractures &lt; 25° core axis. Some fracture surfaces have yellow-tan surface coating. Total S<sup>2</sup> 70-75% Total grade 12-15% (Pb+Zn) last 1' is locally slightly porous. TOI-216 very broken on steep fractures w/ OK recovery / 216-221.5 mod. broken w/ OK recovery / 221.5-EOI slightly broken w/ OK recovery.</p>
L	121317	3		121416					115	141E1014	<p>BXA Fine-grained, brassy yellow, noncalcareous, homogeneous, py. Texturally it consists of S<sup>2</sup> in S<sup>2</sup> bxa. Angular clasts of py supported in fine-grained, dull brown py matrix. Bxa fractures trend // core axis. Bottom contact 35° against gouge (4L). Down to 240 bxa texture only patchily developed - becomes prevalent for lower part of interval. Clasts range from 1-2mm to 5-6 cm across.</p>

Code	From		To		Recov.		No.		Unit		Description
	10	14	16	20	22	24	26	28	30	34	
											TOE- 240 extremely broken w/ OK recovery / 240-241 1' core lost although slightly broken / 241-EOI slightly broken w/ OK recovery.
L	121416	2	121511	0				1116	141210		<p>GOUGE (4E44 # [4.544#]) 90:10</p> <p>Very soft, light grey to white phyllite gouge. Interval 247-247.8 consists of large cleat / fragment of light brown, homogeneous, fine-grained sphal. w/ abundant dissem. calcite. Contacts of cleat sharp against phyllite gouge - upper contact 52° core axis. Estimated grade 20-25% (Pb+Zn). Recovery good - core locally very rubbly.</p> <p>Major fault which cuts off the low grade 4EC part of deposit beneath high grade 5.</p>
L	121511	0	121516	8				1117	141216		<p>(5B6) 80:20</p> <p>Dominantly soft, P52 foliated, altered, light green, muscovite-chlorite phyllite. S2 surfaces shiny to dull light green. Noncalcareous. Abundant light grey, foliaform, thin qtz veins. Interbedded w/ 4h is very soft, light grey, P52-foliated, noncalcareous musc phyllite. Local incipient gouge 2cm across @ 300/54 (depth of 255'). S2 surfaces shiny light steely grey. Contacts lost in rubble but appear to be fairly sharp. Core very broken &amp; rubbly w/ incipient gouge. Recovery OK.</p>
L	121516	8	121610	0				1118	151C17		<p>"Legend Rock"</p> <p>light grey and green striped, moderately soft, dolomitic chloritic phyllite (metabasite). Dominantly P52 foliated w/ f.lite defined by alternating &amp; planar chlorite laminae. S2 surfaces are used to track olive green. Upper and lower contacts sharp and parallel S2. Core intact w/ good recovery.</p>

Code	From		To		Recov.		No.		Unit		Description
	10	14	16	20	22	24	26	28	30	34	
L	1216	00	1217	00				119	141	161	± 2 (50±7) TRACE (1000) TRACE
											Poorly laminated, light greyish green, moderately soft, dolomitic chlorite-muscovite altered phyllite. Banding defined by light green chlorite and tan to yellow dolomite parallel S2. S2 surfaces patchy light green and grey locally fine-grained py occur in thin bands typically across w/ grey qtz. At 261.7 have 20cm thick S2 parallel metabasite - same textures as described for host unit (25 - 260). Intvl 269-269.8 pegmatite white qtz vein w/ thick steep fractures infilled w/ soft dark green chlorite. Core unbr broken TOE-270 / 270-504 very broken Recovery reasonable At 266' 8" fracture bra assoc w/ qtz vein - infilled w/ py. At 268' steep fracture 6° core axis
											EOT



ASSAY LOG (SAMPLER'S COPY)

CODE	FROM	TO	SAMPLE	INTR.	REC (m)	UNIT	DESCRIPTION
P	1 19 10 0	1 19 15 0	31012571	1	11 0	41A01	very weathered
P	1 19 15 0	1 10 19 1	31011617	1	11 5	41A1041	gauge
	1 10 19 1	1 11 14 0	31011618	1	13 3	41E1041	very weathered
	1 11 14 0	1 11 17 0	31011619	1	13 0	41E14181	mod. weathered
	1 11 17 0	1 12 10 2	31011710	1	13 9	41E14181	slightly weathered
	1 12 10 2	1 12 15 1	31011711	1	14 9	41G141#	slightly weathered
	1 12 15 1	1 13 11 0	31011712	1	15 0	41G141#	slightly weathered
	1 13 11 0	1 13 14 0	31011713	1	12 9	41E14141	slightly oxidized
	1 13 14 0	1 13 17 0	31011714	1	12 0	41E14141	slightly oxidized
	1 13 17 0	1 14 2 0	31011715	1	13 0	41E1010	porous slightly oxidized
	1 14 2 0	1 14 7 0	31011716	1	14 2	41E1010	porous slightly oxidized
	1 14 7 0	1 15 2 0	31011717	1	13 9	41E1010	porous slightly oxidized
	1 15 2 0	1 15 4 0	31011718	1	12 5	41E1010	porous slightly oxidized
	1 15 4 0	1 15 8 8	31011719	1	15 0	41E1641	slightly oxidized
	1 15 8 8	1 16 1 0	31011810	1	12 5	41E14161	" "
	1 16 1 0	1 16 5 0	31011811	1	12 6	41E141	" "
	1 16 5 0	1 17 10 3	31011812	1	15 8	41G141	" "
	1 17 10 3	1 17 14 0	31011813	1	14 4	41E1041	slightly oxidized
	1 17 14 0	1 17 17 0	31011814	1	13 5	41E14161#	slightly oxidized
	1 17 17 0	1 18 10 1	31011815	1	14 4	41E14161#	slightly oxidized
	1 18 10 1	1 18 4 5	31011816	1	14 6	41E14161#	slightly oxidized
	1 18 4 5	1 19 12 0	31011817	1	14 6	41G141	slightly oxidized
	1 19 12 0	1 19 17 0	31011818	1	14 0	414612	
	1 19 17 0	1 20 11 9	31011819	1	14 8	41E14141	porous slightly oxidized
	1 20 11 9	1 20 15 0	31011820	1	11 3	41A141	rubble + gauge
	1 20 15 0	1 20 18 6	31011910	1	12 4	41E1641	slightly oxidized
	1 20 18 6	1 21 14 0	31011911	1	17 5	41G141	" "
	1 21 14 0	1 21 18 6	31011912	1	16 0	41G141	" "
	1 21 18 6	1 22 13 4	31011913	1	16 3	41G141	" "
	1 22 13 4	1 22 17 0	31011914	1	14 1	41G141	" "
	1 22 17 0	1 23 10 5	31011915	1	14 4	41G141	" "
	1 23 10 5	1 23 13 7	31011916	1	14 2	41G141	" "
	1 23 13 7	1 23 17 3	31011918	1	13 8	41G141	" "
	1 23 17 3	1 24 11 0	31011919	1	15 0	41E1041	BXA
	1 24 11 0	1 24 16 2	31021010	1	15 0	41E1041	BXA
	1 24 16 2	1 24 18 0	3102152	1	12 2	41L141	Gauge

Fault Log

Code	FROM		TO (At)		Feature	REG	UPPER Dip Direct		INTERNAL Dip Direct.		LOWER Dip Direct		Description	
	10	14	16	20			22	24	26	28	32	34		38
F	101		1910	0	INIP	0								Triconed - no recovery
F	1910	0	1915	0	31B	1								very broken to rubble - 14% recovery
F	1915	0	11019	1	31G	F0								gauge - 8% recovery
F	11019	1	11114	0	13B	5								very broken - 55% recovery
F	1111		11110	5	1R									rubble
F	11113	0	11114	0	1R									rubble
F	11114	0	11115	0	11B									slightly broken
F	11115	0	11116	7	13B				310	010				very broken - steep fractures
F	1111		11119	0	1R									one local rubble zone
F	11210	2	11311	0	13B									very broken - recovery OK
F	11311	0	11317	0	13B	8			110	010				very broken on steep fractures
														<10° core axis - 80% recovery
F	11317	0	11514	0	12B									mod. broken to locally v. broken
														on steep fractures
F	11317	0	11412	0	1P	5								56% recovery
F	11514	0	11710	3	R13B				115	010				very broken to locally rubble on
														steep fractures <10° core axis
F	11610	0	11615	0	1P	6								60% recovery
F	11710	3	11714	0	R13B				210	010				very broken - locally rubble on
														steep fractures <20° core axis -
														recovery OK
F	11714	0	11912	0	R13B				210	010				very broken - locally rubble on
														steep fractures <20° core axis
F	11812	0	11814	0	1P	5								50% core recovery
F	11814	0	11817	0	1P	6								66% core recovery
F	11817	0	11912	0	1P	4								40% core recovery
F	11912	0	11917	0	31B	R			15	010				very rubble & broken - 5° core axis
F	11912	0	11915	0	1P	3								33% recovery
F	11917	0	11917	0	N				210	010				20° core axis juxtaposes 2
														units - fracture
F	11917	0	11919	0	R13B	7								very broken & locally rubble
														75% recovery
F	11919	0	12012	0	13B	6								very broken - 63% recovery
F	12012	0	12015	0	13R	1								rubble - 13% recovery
F	12015	0	12018	6	R13B	6								very broken w/ local rubble
														61% core recovery

Fault Log

Code	FROM				TO (At)				Feature	REG	UPPER		INTERNAL		LOWER		Description
	10	14	16	20	22	24	26	28			32	34	38	40	44		
F				121020	1GIF						318	01010					probable fault @ 202'
F		121086		121160	J13B												very broken on steep fractures recovering OK - fractures <25° core axis
F		121160		121215	121B												mod broken w/ OK recovery
F		121215		121373	111B												slightly broken w/ OK recovery
F		121373		121462	131X								315	01010			breccia textures - bottom contact 35° against gouge bxa fractures trend // core axis
F		121375		121410	131B												extremely broken w/ OK recovery
F		121410		121460	111B B												slightly broken - 80% recovery
F		121462		121510	31FIG			512	01010								major fault cuts off me beds
F		121510		121568	31BIR												very broken & rubble w/ incipient gouge - recovery OK
F				121515	11GIF					514	31010						local incipient gouge 2cm across @ orient 300/54
F		121610		121710	121B												mod broken
F		121710		121712	13B												very broken
				121618	J					016	01010						steep fracture - 6° core axis

PROJECT \_\_\_\_\_ DRILLHOLE NO. B7V-25 COORDINATES: N \_\_\_\_\_ DATE Nov 20 1987  
 LOCATION \_\_\_\_\_ HOLE SIZE NA E \_\_\_\_\_ PAGE    of     
 LOGGER \_\_\_\_\_ INCLINATION -90° 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		COMMENTS	
		LENGTH	%	LENGTH	%		CATEGORY	NO.			DEPTH	ANGLE	NO.	FREQ.	NO.	FREQ.		
90		0		0														Tricone 2
95		0.7		0														
110		2.0		0														
114		2.2		0														
119		5.2		2.2														
122		3.2		0.7														
127		3.8		0.6														
132		4.7		1.4														
137		3.3		0.5														
142		2.7		1.4														
147		5.1		1.5														
152		3.8		0														
157		5.3		2.4														
160		2.5		1.0														
165		2.8		0.5														
167.5		1.8		0														
169.5		1.7		0.4														
172		2.4		0.4														
177		5.4		1.7														
179		2.1		0.6														
182		2.7		0.4														
184		1.3		0.5														
187		2.7		0														
192		0.8		0														
195		0.8		0														
199		3.4		0														
202		1.9		0.9														

Fig. 1. Typical rock mechanics core log.



87V-26

64 W

62 W

1980 DDH

CRUSHER 80