

V A N G O R D A

D E P O S I T

1 9 8 8

D D H L O G S

88V-51

to

88V-63

015048

DIAMOND DRILL CORE LOG

Date: Aug. 22/88

Hole Number: 88V-51

Reference Fabric Orientation Diagram:

Project: Vanguarda Summer 1988

Location: Vanguarda Deposit

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

Terr. Plane Co-ords.: 6903 013.65 N

9879.31 N

594 185.43 E

9905.53 E

Grid Co-ords: 16 E - 3.0

Elevation: 1140.61 m.

All symmetry determinations looking

Total Depth: 102.0 ft. (31.1 m)

\_\_\_\_\_ with \_\_\_\_\_ dipping

Inclination: -90° (Vertical)

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

Purpose: Ore Reserve Definition & Met. Samples

Reason hole Terminated: Drilled into footwall.

Logged by: C.V. Reed

Date(s) Logged: Aug. 22/88

Drilling Contractor: Arctic Diamond Drilling

Hole Cemented: No Steel down Hole: No

Size	CORE From	To	Collar Cased and Capped: <u>No</u>
<u>NQ</u>	<u>0</u>	<u>102.0'</u>	

Assay Lab: Mine

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

Started: Aug 11/88 Completed: Aug 12/88



CURRAGH RESOURCES INC.  
Lithologic Log

Code	From				To				Recov.		No.		Unit	Description
	10	14	16	20	22	24	26	28	30	34	35			
	10		11	14	3							11	#	Conec in no recovery
					4									
	11	14	3	11	17	6						12	#	
					5	4								
														Anvil batholith granitic boulders + fragments, largest boulder 8" long. Only in minor amounts of O/B mud / till recovered. 3.5' granitic boulders + fragments recovered.
	11	17	6	12	14	4						13	14K16	Moderately weathered. Soft, noncalcareous, ps <sub>2</sub> foliated, sh <sub>1</sub> = musc phyllite unit shows abundant patchy rust on surface + fracture surfaces. Fracture surfaces are in pale greenish-grey. Cone is broken in local thin rubble intervals. 3.4' recd.
					7	4								
	12	14	4	13	16	0						14	14IE10	±1 ±4? weathered (4C3 ±5 "micaceous" weathered) (4L weathered) 60:40:trace. Highly weathered + fractured unit in very poor recovery. TOI → 27.0 Highly weathered + fractured mud flint to locally soft, noncalcareous, micaceous, ps <sub>2</sub> g <sub>1</sub> ts. Contains abundant local paper thin micaceous folia which are weathered to a rusty orange. Locally, foliations have carbon coatings. Grade difficult to visibly estimate due to high degree of weathering + poor condition of the core. Unit locally contains thin base metal rich bands aligned N to S <sub>2</sub> . Contains local small subangular g <sub>1</sub> ts clasts + fine interstitial g <sub>1</sub> ts in thin bands N to S <sub>2</sub> . Est Pb + Zn 3-5% ???
					11	0								
														Est P <sub>2</sub> content varies from 30-60%

CURRAGH RESOURCES INC.  
Lithologic Log

Code	From		To		Recov.			No.			Unit	Description
	10	14	16	20	22	24	26	28	30	34		
												27.0 → EOT Very weathered, highly broken, massive pyritic S <sup>2</sup> . Locally slightly porous due to weathered carbonate. Contains abundant rusty orange red oxidation coatings on fracture surfaces. Contains local small subangular gtz clasts + local interstitial fine gtz in thin bands // to S <sub>2</sub> . Grade difficult to visibly estimate due to weathering coatings + poor rock condition. K <sub>2</sub> O Ph <sub>2</sub> O <sub>5</sub> 3-4%?? At 30.5 a few small pieces + flakes of rusty, 4L recovered.
												10E → 27.0 $\bar{v}$ broken, 2.0' rec'd.
												27.0 → 28.2 $\bar{v}$ broken, 1.2' rec'd.
												28.2 → EOT rubble, only, 2.4' rec'd.
												Some loss likely related to high degree of weathering + poor condition of rock.
	136	0	141	4				5	14K112	4		4 → [400 "micaceous"] (4E1) (10Q9) 85:10:5 Dominant unit is a most hard, siliceous, pyritic, altered musc phyllite transitional to gtzite. Contains abundant paper-thin musc-folia which are locally weathered to rusty orange. Unit is noncalcareous. Folia locally define a uniaxial cleavage. Fine grained grey gtz is abundant and makes up 60-70% of groundmass. Unit contains abundant thin fractures infilled w/ dominantly P <sub>3</sub> , lesser Sph + locally marcasite <sup>?</sup> . Fine P <sub>3</sub> + much lesser base metal locally dess <sup>-</sup> in local $\bar{v}$ thin discontinuous bands. Soaking through bottom half of unit is a thin band of massive, poorly banded pyritic S <sup>2</sup> .

Code	From		To		Recov.		No.		Unit	Description	
	10	14	16	20	22	24	26	28			30
											Band is approx 4 cm thick & defines two fold noses 4E band locally, containing fine whitish-grey interstitial qtz. Locally, contains fine laminations containing base metal. Internal banding reflects same fold pattern as 4E band. Est Pb+Zn for band is 4-5%. Overall Pb+Zn is 3-4%. Est. % Py 15-20%. Core med broken, Recy GOOD. Local patch weathering on fracture surfaces. No obvious faults
	14104		14159 140				16		13B10	±1±9 [3C47] (4E0) 95:5.	Med-soft, pale green, chl >> musc, phyllite. S <sub>2</sub> surfaces are pale dull green. Unit is PSe laminated - defined by abundant chl. Unit likely originally a metabasite however no relict diabase textures preserved. Contains local thin qtz rich bands in dross - fine py. Est % Py for unit < 3%. Concorded at 44.2 is 8 cm thick band of massive fine Py. Margins of band are fl to S <sub>2</sub> . 2 cm thick zone of flakes gorge on bottom margin of band. Core med broken. Recy GOOD.
	14159		15196 182				17		131610	±9.± \$ minor Medium grey to locally black, moderately soft, locally carbonaceous musc phyllite. S <sub>2</sub> surfaces range from medium shiny grey to carbon black. Contains local thin qtz silstone laminae which commonly define lithons. Laminae locally contain fine dross py. Near EOT, laminae contain minor dross dolomite.	

CURRAGH RESOURCES INC.  
Lithologic Log

Code	From		To		Recov.		No.		Unit		Description
	10	14	16	20	22	24	26	28	30	34	
											<p>702 → 47.2 v broken, recy o.k.</p> <p>47.2 → 50.7 rubble, recy o.k.</p> <p>50.7 → 802 v broken recy GOOD.</p> <p>No obvious <sup>major</sup> faults. Local minor incipient gouge in thin intervals generally 41 cm // to S2.</p>
	1519	16	1612	5			18		41211214	7	<p>Mod hard, light grey to off-white, noncalcareous, altered musc &gt; chl phyllite. Contains abundant thin stringers of dominant py, lesser po + sph. Py, Po + lesser sph infill abundant thin fractures. S2 surfaces are pale grey + are slightly talcose. Est % S = 15% Est Pb+Zn 2-4% Sph &gt; 1%.</p> <p>Core mod broken. Recy GOOD.</p>
	1612	5	1614	5			19		141C15		<p>Mod hard, mod calcareous, pyrite banded g/tz. Py occurs in diffuse bands w abundant interstitial grey g/tz. Banding generally &lt; 2cm thick defining S2. Est % Py 15-20%.</p> <p>Base metal content is poor - Pb+Zn = 2-3%. Contains abundant paper thin black calcareous folia which locally define a crenulation cleavage.</p> <p>Core slightly broken. Recy o.k. No faults - no visible unroofing.</p>
	1614	5	1618	4			110		14121214	7 ± 6. 1 B & A	<p>Mod-soft, pale grey-green to locally green-grey, noncalcareous</p>

Code	From	To	Recov.	No.	Unit	Description
1	10 14 16	20 22 24 26 28	30 34 35			altered musc + chl phyllite. Locally chl > musc. Contains abundant thin stringers + thin bands of Qtz + py, lesser po + sph. Est % S <sub>1</sub> = 8-10%. Est % Pht Zn = 2-3%. Unit is highly fractured + locally brecciated. Bx A a result of ductility contrasts between soft musc + chl intervals and Qtz + py bands. Individual Bx A fragments are generally large - greater 3-4 cm dia - and do not show significant rotation. Pale green chl laminations locally define S <sub>1</sub> + S <sub>2</sub> metamorphic fabrics.  701-660 m broken Recov, GOOD. 66- FOT m broken Recov, GOOD.
	16 18 4	17 17 5 23 6		111	14A10	Mod- hard, barren, black, carbonaceous Qtzite. Contains abundant thin Qtz laminations containing fine dess py. Carbonaceous folia of fine CS <sub>2</sub> foliation. S <sub>2</sub> surfaces are carbon black. Qtz - py banding, generally < 2mm thick. Est % Py = 10-12%. Est % Pht Zn = 2%. No weathering - no faults One m broken. Recov, GOOD.
	17 17 5	18 12 2 25 1		112	41L 12 14 17 1 ± 6 minor.	"stringered" (360) 90:10. Mod- soft to locally hard, whitish-grey, locally siliceous, musc + chl phyllite. Contains abundant thin stringers + bands of Qtz + py, + lesser Po + lesser sph. Near EOF chl > musc. S <sub>2</sub> surfaces are light greyish-green + are slightly talcose.

Code	From	To	Recov.	No.	Unit	Description
1	10	14	16	20	22 24	26 28 30 34 35
						Centered at 80.2 is 5" band of soft, noncalcareous, med. un grey, slightly carbonaceous phyllite. Margins of band are // to S <sub>2</sub> .
						Est % S <sup>=</sup> for entire interval 15-20%.
						Est % P <sub>2</sub> + Z <sub>2</sub> 4-5%.
						No faults - No weathering.
	1812	1816	2	2	113	15A1619 ±1 (50%) 90:10
						Dominant unit is a med- soft to locally hard, black, carbonaceous phyllite. Contains local thin qtz + dess <sup>-</sup> py + lesser dess <sup>-</sup> sph bands which locally define lithons. Dominant P <sub>3</sub> + lesser sph infill minor local thin fractures. S <sub>2</sub> surfaces range from dark grey to carbon black.
						84.0 → 84.8 is a soft, pale green, locally calcareous metabasite. Margins of metabasite // to S <sub>2</sub> . Calcite occurs in local thin laminations which define lithons. A similar band occurs at 85.8 → 86.0.
						Est % S <sup>=</sup> for entire interval is 6-7%.
						Core most broken, very green - no obvious faults.
	1816	1817	2	0	114	141G1#
						Med hard, medium brown, calcareous, massive granitic S <sup>=</sup> Unit is thinly bedded defined by variations in p <sub>3</sub> , ka + base metal content. Bedding is generally < 0.5 cm thick aligned // to S <sub>2</sub> . Margins of 4G band are // to S <sub>2</sub> . Contains calcite dess <sup>-</sup> in thin diffuse bands // to S <sub>2</sub> .

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Lithologic Log

Code	From				To				Recov.	No.	Unit	Description
	10	14	16	20	22	24	26	28				
												Shows patchy reddish orange rust on fracture surfaces. Est. Ph <sub>2</sub> Zn 8-10% Core is broken due to fracturing. Recovery is good.
	1817	0	1110	20	31	1	115			15A10	6 ± 1 ± 9 minuc.	Black, med-soft to locally hard, locally slightly calcareous, locally siliceous, carbonaceous phyllite. S <sub>2</sub> surfaces are carbon black. Carbonaceous falia locally, detrital CS <sub>2</sub> . Contains locally abundant qtz-silstone laminae which commonly contain desc <sup>+</sup> fine py. Py in fills locally abundant thin fractures. Contains local calcite disseminated in thin qtz laminae. Laminae locally detrital microlithons. Core med- broken. No faults. Recov. GOOD.
<p style="font-size: 2em; font-family: cursive;">FOH</p>												

ASSAY LOG (SAMPLER'S COPY)

CODE	FROM		TO		SAMPLE	INTR.	REC (m)	UNIT	DESCRIPTION				
	10	14	16	20									
1	12	14	16	20	22	26	28	30	32	34	36	40	42
	7	4	8	2	1165115	126	124	141C13	±5 "micaceous" weathered.				
	12	7	12	7	1165116	135	122	141E10	±1±4 weathered.				
	13	10	13	10	1165117	155	116	141E10	±1±4 weathered.				
	13	16	14	10	1165118	144	143	41L1R14	→ [400 "micaceous"]				
	15	19	16	13	1165119	129	124	41L1R14	7				
	16	12	16	14	1165120	120	120	141C15					
	16	14	16	18	1165121	139	151	41L1R14	±6 B <sub>2</sub> A				
	16	18	17	13	1165122	147	150	141A10					
	17	13	17	13	1165123	144	156	141A10					
	17	17	18	12	1165124	147	151	41L1R14	1.56 minor "steingered"				
	18	12	18	16	1165125	140	145	51A16191	±1 (50%) 90:10				
	18	16	18	17	1165126	18	118	141G#					
<del>FOH</del>													





DIAMOND DRILL CORE LOG

Date: Aug. 23/88

Hole Number: 88V-52

Reference Fabric Orientation Diagram:

Project: Vangorda Summer 1988

Location: Vangorda Deposit.

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

Terr. Plane  
Co-ords.: 6903 057.64 N

9817.39 N

594 327.32 E

10040.65 E

Grid  
Co-ords: 18E + 1.5

Elevation: 1153.29 m

All symmetry determinations looking

Total Depth: 102.0 Ft. (31.1 m)

\_\_\_\_\_ with \_\_\_\_\_ dipping

Inclination: -90° (Vertical)

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

Purpose: One Reserve Definition - Met. samples.

Reason hole  
Terminated: Drilled into footwall.

Logged by: C.V. Reed

Date(s) Logged: Aug. 23/88

Drilling  
Contractor: Arctic Diamond Drilling

Hole  
Cemented: No Steel  
down Hole: No

Size	<u>NO</u>	<u>0</u>	To	<u>1020</u>	Collar Cased and Capped: <u>No</u>
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Assay Lab: Mine

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

Started: Aug 12/88 Completed: Aug 12/88



CURRAGH RESOURCES INC.  
Lithologic Log

Code	From				To				Recov.	No.	Unit	Description	
	1	10	14	16	20	22	24	26					28
		10			12	16	6				11	#	Concl in no recovery
							8						
		12	16	6							12	#	OIB 10A/B Boulders.
													Anvil Batholith granitic boulders + fragments. Largest boulder
													1' long. Locally boulders show patchy orange rust. Smaller
													reddited fragments of pyrites OIB boulders also recovered. No
													and matrix recovered.
													3.2' OIB boulders + fragments recovered.
		13	10	0		13	12	5			13	14C13	weathered
													Highly fractured + broken, weathered, pyritic gteite. Largest
													piece recovered is 2 cm $\phi$ . Some fragments show patchy orange
													rust coatings. Visible estimation of grade impossible due to
													poor core condition.
													0.8' rubble recovered
		13	12	5		15	10	8			14	14C13	$\pm$ 7. + 9 trace.
													V band, noncalcareous, thickly banded, pyritic gteite. Banding
													defined by fine py + lesser po. Banding ranges on a
													scale of 1 cm to 15 cm. Local minor patchy rust on
													fracture surfaces. Local patchy rust-drilling rust on
													cut surface. Traces of splash (py) in local thin fractures.
													No faults.
													Est % $P_2$ 30-40% Est $Pb+Zn$ $\approx$ 4%.
													70.5 - 49.3 intact recs, good.
													49.3 - FDI rubble due to fracturing.

Code	From		To		Recov.		No.		Unit		Description
	10	14	16	20	22	24	26	28	30	34	
	15	10	8	16	19	9			15	141D13	<p>87 ± 8 minor ± 9 trace</p> <p>̄ hard, poorly banded, pyritic gtzite. Unit is ̄ magnetic. Contains abundant thin bands + small clots of magnetite. Po occurs in locally thick bronze bands which locally show flow textures around gtz + dol clasts. Dol occurs locally in thin fractured bands + subangular clasts. Dol weathered (post drilling) to light tanish-yellow. Contains sph + gal in thin laminations within py + po bands. (ps) occurs locally in traces in fine fractures.</p> <p>Est Py ≈ 25% Est Po 15% Est Pb+Zn 6-8%</p> <p>Unit contains abundant thin fractures infilled by Py + Po + sph + gal. Cone slightly broken. Recry GOOD.</p>
	16	11	9	16	13	8			16	41216	<p>Highly broken + fragmented, pale green-grey, chl phyllite. Unit is med-soft, noncalcareous. Largest piece is 2cm long. Margins of band are ll to S<sub>2</sub>. S<sub>2</sub> surfaces are medium pale green.</p> <p>1.7' of flakey rubble rec'd.</p>
	16	13	8	18	16	6			17	4161817	<p>± 9 trace. 4D.B7 from 19.4 → 23.0 - based on assays.</p> <p>̄ hard, pyritic, pyrobititic, noncalcareous gtzite. Unit appears similar to unit # 5 except does not contain dolomite. No faults - No visible weathering</p> <p>Est Py ≈ 25% Est % Po 15% Est Pb+Zn ranges from 4-8%. Cone slightly broken, recry good.</p>







PROJECT 88V-52 DRILLHOLE NO. \_\_\_\_\_ COORDINATES: N \_\_\_\_\_ DATE \_\_\_\_\_  
 LOCATION \_\_\_\_\_ HOLE SIZE \_\_\_\_\_ E \_\_\_\_\_ PAGE    of     
 LOGGER \_\_\_\_\_ DIRECTION \_\_\_\_\_ 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		CRACK JOINTS		COMMENTS	
		LENGTH	%	LENGTH	%		CATEGORY	NO.			DEPTH	ANGLE	NO.	FREQ.	NO.	FREQ.		
30		3.3																
34		2.4		.6														
39		5.4		4.5														
42		3.1		2.8														
47		5.5		4.3														
52		5.7		1.9														
57		5.3		4.2														
62		5.6		4.3														
64		1.9		0														
69		5.2		4.0														
72		3.4																
77		5.1		1.2														
82		5.3		3.0														
87		4.0		2.3														
92		5.2																
97		3.6																
102		4.2																
<del>FOOT</del>																		

Fig. 1. Typical rock mechanics core log.

DIAMOND DRILL CORE LOG

Date: Aug. 23/88

Hole Number: 88V-53

Reference Fabric Orientation Diagram:

Project: Vansorda Summer 1988

Location: Vansorda Deposit.

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

Terr. Plane Co-ords.: 6902 977.80 N

9818.23 N

594 236.91 E

9919.97E

Grid Co-ords: 18E -2.5

Elevation: 1143.05

All symmetry determinations looking

Total Depth: 132.0 ft. (40.2m)

\_\_\_\_\_ with \_\_\_\_\_ dipping

Inclination: -90° (Vertical)

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

Purpose: Vansorda Deposit Definition Drilling + Wet Samples

Reason hole Terminated: Drilled into footwall.

Logged by: C.V. Reed

Date(s) Logged: Aug. 23/88

Drilling Contractor: Arctic Diamond Drilling

Hole Cemented: No Steel down Hole: No

Size	CORE From	To	Collar Cased and Capped:
<u>NO</u>	<u>0</u>	<u>132.0</u>	<u>No</u>

Assay Lab: Mine

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

Started: Aug 12/88 Completed: Aug 13/88



Code	From	To	Recov.	No.	Unit	Description
1	10	14	16	20	22 24 26 28 30 34 35	
	10	12	17		11	1# Cored in no recovery
			6			
	12	17	12		12	17#
			6			
			7			Reddish, small fragments of highly weathered 10 #13
						granitic OIB boulders. Largest piece is 3 cm $\phi$ .
						0.5' of granitic fragments rec'd.
	12	13	13		14	16
			9			
			8			
						Weathered
						Highly fractured & broken, rusty orange, mud-soft, noncalcareous
						chl + musc phyllite. Abundant patchy orange rust on cut, fracture,
						+ S <sub>2</sub> surfaces. 27.0 - 28.0 is locally brecciated + soured. Likely
						not a major fault. Local minor gouge in 2" interval at
						32.0'
						TOI - 28.0 Rubble 3.2' rec'd.
						28.0 - EOI Rubble 2.3' rec'd.
	13	15	14		14	14E14
			10			
			8			
						Moderately weathered.
						Homogeneous, brassy yellow, noncalcareous, massive pyritic S <sup>+</sup>
						Contains local minor thin bands containing sph + gal. Banding
						is $\leq$ 0.5 cm thick. Last 5" of unit is small angular
						fragments of 4E4. Fragments likely fractured & broken
						pieces of high grade band within 4E12. Unit shows
						patchy rust on fracture surfaces. Cut surface is fresh.
						Margins of 4E band host in rubble.
						Est % Pb + Zn ranges from 2-5% Assay = 9.37%
						TOI $\rightarrow$ 32.6 Rubble Recy. O.K.

Code	From	To	Recov.	No.	Unit	Description
1	10	14	16	20	22 24 26 28 30 34 35	
						32.6 - 34.3 m broken, recy 0.4.
						34.3 - FOT rubble 0.4' rec'd.
	13 15 4	13 18 3 11 7		15	14 12 14	"Stringered" weathered Med soft, noncalcareous, weathered rusty-orange, musc > chl phyllite. Contains local thin bands + stringers containing dess-py. Py + lesser sph in fill abundant thin fractures. Unit is highly fractured + broken - likely due to high degree of weathering. Est % S = 12% Entire interval is rubble, 3.2' rec'd.
	13 18 3	15 12 2 15 9		16	4 E 10 B #	I 4 ± 6 minor. ± 9 trace. (466) (1009) 95:5: trace Dominate unit is a thin, banded, locally high grade, magnetic, calcareous, massive pyritic S <sup>2</sup> . Contains local calcite dess in diffuse fractures, bands // to S <sub>2</sub> . Musc occurs in local thin black bands + streaks // to S <sub>2</sub> . Contains local thick bands ranging up to 6 cm thick in dess barite. Bands are aligned // to S <sub>2</sub> . Unit is locally slightly porous due to weathering of carbonate. Centered at 40.5 is 10 cm foliation white pyg. gta vein Py, trace of sph in fill local thin fractures. 41.0 - 41.2 is thin banded med soft chloritic phyllite. Musc // to S <sub>2</sub> . 51.6 - 52.0 is 4L rubble. Est % P 1 ± 7% for entire interval ranges from 2 → 8% P 4 ± 2%. Grade appears to ↑ moving down the interval. No visible rusting.

CURRAGH RESOURCES INC.  
Lithologic Log

Code	From	To	Recov.	No.	Unit	Description
	10 14 16	20 22 24	26 28 30	34 35		
						TOE → 43.0 ✓ broken 3.9' rec'd.
						43.0 → 50.3 ✓ broken recy O.K.
						50.3 → EOC rubble 1.7' rec'd.
	15.2	16.1	17.7	17	141E11	IF (4G4) (3CX) 60:20:20
		18.8				Dominant unit is a moderately hard, locally porous, locally calcareous, siliceous, massive pyritic S <sup>+</sup> . Unit is thickly banded - defined by local concentrations of whitish-grey interstitial Qtz. Banding is generally 2-5 cm thick aligned // to S <sub>2</sub> . Calcite occurs locally, diss <sup>-</sup> in one 15 cm band centered at 54.7'. Est % Qtz 15-20% Est Pb+Zn 2-3%.
						TOE → 53.6 is interval of med-hard, noncalcareous, thickly banded pyritic / baritic S <sup>+</sup> . Banding defined by local concentrations of py - aligned // to S <sub>2</sub> . Banding ranges from 1cm to 6cm thick. Base metal concentrations occur within baritic intervals. Est Pb+Zn 12%. Margins of 4G band // to S <sub>2</sub> .
						53.6 → 54.4, med soft, pale green #1 fish striped, ankeritic? metabasite. Contains abundant pale green laminations of ch <sup>1</sup> aligned // to S <sub>2</sub> . Two 4" thick bands of similar metabasite occurs centered at 60.3' and 61.0'. Margins of 2CX are // to S <sub>2</sub> .
						TOE → 55.0 ✓ broken 3.7' rec'd.
						55.0 → 56.4 rubble recy O.K.
						56.4 → EOL ✓ broken due to fracturing, recy O.K.

Code	From		To		Recov.		No.		Unit		Description
	10	14	16	20	22	24	26	28	30	34	
	161	7	171	0				18	1416	141	± #
				216							moderately hard, poorly banded, massive baritic/pyritic s <sup>+</sup> Unit ranges from light greyish brown to a light reddish-brown. Banding defined by variations in py, ha, & base metal concentrations. Banding ranges from 0.1' to 1.5' aligned // to S <sub>2</sub> . Contains local, sub-rounded, large whitish-tan clasts of dolomite which are locally concentrated in two intervals which are 8" thick. Clasts range in size up to 5 cm φ & are generally elongate & aligned // to local steep fractures. Fractures are approx- 18° to core axis, dip direction 180° from S <sub>2</sub> . Est Pb+Zn 10-14%. Ende interval is broken due to steep fractures. Recov is 0.15.
	171	0	181	0				19	141A	10	± # "micaceous" → [5A19 ± 6] (4624 ± 6) 95:5. Black, mod-soft to locally mod-hard, carbonaceous, micaceous, pyritic banded gtzite transitional to phyllite. Contains local thick bands of massive py ranging in a scale of 0.1' to 1.3'. Bands contain minor interstitial fine gtz and locally contain finely diss calcite. S <sub>2</sub> surfaces are carbon black. Unit contains local thin laminations of white-grey gtz & diss fine py which commonly define lithons. Py banding is 20% of unit volume. Py bands are locally slightly porous. Est Pb+Zn < 2%. No weathering, No obvious faults. TOI → 72.1 is mod-soft, highly fractured, altered musc +

CURRAGH RESOURCES INC.  
Lithologic Log

Code	From	To	Recov.	No.	Unit	Description
	10	14 16	20 22 24	26 28	30 34 35	
						chl phyllite. Contains local small subrounded clasts of gtz. Clasts generally < 1 cm Ø. Contains local stringers + fracture fill of P <sub>2</sub> + lesser reddish brown sph. Margins of band lost in rubble Est P <sub>2</sub> 2-3%.
						70E → 72.2 Rubble Recy O.K.
						72.2 → 73.9 v broken Recy O.K.
						73.9 → 77.0 Rubble 1.6' rec'd. local minor flakes, gouge rec'd.
						77.0 → EOI m broken Recy Good.
	1819 0	111141 348		1110	15A16	I 9 ± BxA.
						mod- soft, noncalcaneous, black, carbonaceous phyllite. Contains local thin gtz + fine py laminations which may define lithons. S <sub>2</sub> surfaces are carbon black. P <sub>2</sub> in fills local minor fractures. Bottom 1.5' of unit is lightly fractured + broken brecciated rubble. Contains local small fragments of psammitic gtz. Est % P <sub>2</sub> = 5%. No visible base mpt/s.
						70E → 96.8 v broken (along S <sub>2</sub> ) recy O.K.
						96.8 → 103.6 "poker chips" 1.6' core loss.
						103.6 → 112.0 v broken along fractures + S <sub>2</sub> , recy O.K.
						112.0 → EOE rubble, -BxA 1.3' core loss.
	111141	111192 363		1111	14E14	I 6 ± \$ minor ± BxA.
						Mod- hard, base metal banded, massive pyritic S <sub>2</sub> . Banding defined by dark brown sph in locally, less- in bands. Banding ranges from 0.5 cm → 5 cm thick aligned    to S <sub>2</sub> . Banding is 15-20% of unit volume. Bottom 1.0'

CURRAGH RESOURCES INC.  
Lithologic Log

Code	From		To		Recov.		No.		Unit		Description
	10	14	16	20	22	24	26	28	30	34	
											is brecciated massive P <sub>g</sub> s <sup>2</sup> . Individual clasts range in size up to 5cm in sub-rounded margins. Matrix is recrystallized fine P <sub>g</sub> . Unit contains local angular tan-white dolomite clasts up to 3cm φ. Est % Pb+Zn 10-12%. Unit is slightly broken, recovery is good.
	11192		11320				112		141214	±6	± Gouge.
			402								Highly fractured + locally sheared, is soft, altered musc + chl phyllite. Locally chl + musc. Unit is white-green to locally green-white. S <sub>2</sub> surfaces are silvery grey in abundant pale green chl clasts. Contains local fine stringers + lenses containing dolomite P <sub>g</sub> + lesser sphalerite. These sulfides also fill local thin fractures. Fold axis defined by S <sub>2</sub> cleavage at 131'. Contains local thin intervals of incipient, go-gc. Gouge intervals range in thickness from 1cm to 8cm. 8cm gouge zone at 126' dips 22° to core axis, 180° relative to S <sub>2</sub> . Est % S <sup>2</sup> 5-6%. Dominantly P <sub>g</sub> . 101 → 123.0 Rubble 3.2' rec'd. 123.0 → EOH is broken 6.6' rec'd.
<del>EOH</del>											





DIAMOND DRILL CORE LOG

Date: Sept 16/88

Hole Number: 88V-54

Reference Fabric Orientation Diagram:

Project: Vangorda Summer 1988

Location: Vangorda Deposit.

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

Terr. Plane Co-ords.: 6402932.44 N

9755.78 N

594279.83 E

9921.69 E

Grid Co-ords: 20 E -2.5

Elevation: 1147.03 (m)

All symmetry determinations looking

Total Depth: <sup>100</sup>~~132~~ ft. ~~30.5~~ (30.5m)

\_\_\_\_\_ with \_\_\_\_\_ dipping

Inclination: -90° (Vertical)

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

Purpose: Vangorda Deposit Definition Drilling - Met Samples

Reason hole Terminated: Drilled into fault.

Logged by: C.V. Reed

Date(s) Logged: Aug 24/88

Drilling Contractor: Arctic Diamond Drilling

Hole Cemented: No Steel down Hole: No

Size	CORE From	To	Collar Cased and Capped: <u>No</u>
<u>NQ</u>	<u>0</u>	<u>100.0</u> <del>132.0</del>	

Assay Lab: Mine

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

Started: \_\_\_\_\_ Completed: \_\_\_\_\_



Code	From		To		Recov.	No.	Unit	Description		
	10	14	16	20					22	24
	10	0	127	8		11	#	Coned in no recovery.		
				8						
	127	0	128	8		12	V10Q9	Weathered.		
				8				Highly fractured + broken pegmatitic g <sup>+</sup> veins. Fine py, in fill fractures. Broken surfaces show rust-orange weathering coatings. Largest piece 4cm long. 1' of g <sup>+</sup> rubble rec'd.		
11.7	128	0	40	5		13	4E1416	±B (4G4 ± 8) (4L) 66 : 26 : 8		
				12				Dominant unit is a brassy-yellow-brown, thin, <sup>PS<sub>2</sub></sup> banded, high grade, noncalcareous, massive pyritic S <sup>+</sup> . Banding defined by variations in SPL + Gal concentrations. Also defined by local barite concentrations. Contains local, minor, highly fractured foliiform pegmatitic g <sup>+</sup> veins. Top 4" of unit is porous due to weathering of carbonate? Top 5' of unit show local patchy rust on broken surfaces. Remaining interval is Lash. Mag occurs locally in small "blebs" under thin discontinuous bands // to S <sub>2</sub> . 33.4 - 34.3 is 4L rubble. Largest piece 3cm Ø.		
								31.2 - 33.8 + 33.1 - 34.5 two bands of light grey-brown, PS <sub>2</sub> laminated, noncalcareous, high grade, baritic massive S <sup>+</sup> . Laminations defined by variations in spl + gal content. Contains local minor magnetite in thin streaks // to S <sub>2</sub> . Margins of 4G bands // to S <sub>2</sub> .		
								F <sub>5</sub> % Pb + Zn 12-14 %.		
								TOI - 30.5 v broken, very O.K. / 30.5 - 31.5 rubble		

Code	From		To		Recov.		No.		Unit		Description
	10	14	16	20	22	24	26	28	30	34	
											recov. O.K.   31.5 - 33.0 in broken, recov. O.K.   33.0 - 34.0 rubble   34.0 - 37.7 in broken, recov. O.K.   37.7 → EOI in broken due to steep fracture, recov. good.
		1410 5		1415 2				14		141A10	Bx A. Highly broken + fractured, carbonaceous, ribbon banded gte breccia. S <sub>2</sub> highly disrupted due to abundant, later. fracturing. S <sub>2</sub> surfaces are carbon black. Largest piece recovered is 8 cm long. Clasts range from 1 cm to 5 cm φ with angular + subrounded edges. Fine gte + fine dess. in fill fractures. Unit is locally porous due to weathered carbonate? Est % Py 15-20% Est % Pb+Zn < 2%. Core is rubble recov. O.K. - surprisingly!
		1415 2		1610 7				15		141A10	Mod hard, locally (S <sub>2</sub> ) foliated, noncarbonaceous, carbonaceous gte. Unit is black, S <sub>2</sub> surfaces are carbon black + weakly mark fingers. No visible base metal - py content is poor. One 5 cm thick band of homogeneous fine py centered at 59.8. Py locally infills thin fractures. Est % Py 6-8%. Est % Pb+Zn < 2%. No faults - No visible weathering 70.1 - 50.0 rubble 2.2' acid - spread out. 50.0 - 53.0 "Potter chips" recov. good. 53.0 - EOI mod broken along S <sub>2</sub> recov. good.

Code	From	To	Recov.	No.	Unit	Description
1	10 14 16	20 22 24	26 28	30 34 35		
	1610 7	1710 5		16	41E10	trace ± 4 ± 8 minor ± 8 <sup>^</sup> (4L6 ± 2 minor) (400) 75:10:15
		121' 5				TOI - 60.9 One thin band of homogeneous <sup>barren</sup> fine grained massive P <sub>2</sub> . Margins of band    to S <sub>2</sub>
						60.9 - 62.0 Pale green-grey, P <sub>2</sub> foliated, <sup>most</sup> soft, noncarbonaceous shaly massive phyllite. Contains minor fine py, diss <sup>+</sup> in thin local gtz rich laminations. Margins of 4L are    to S <sub>2</sub> .
						62.0 - 67.0 Barren, homogeneous, fine grained, massive py. Contains local thin intervals of highly fractured, <sup>is</sup> hard, pyritic gtzite. Intervals occur at: 62.7' to 63.5', 64.6' to 64.9', 66.0' to 66.5'. Margins to 4E are sharp, irregular + locally brecciated. Quartzite contains abundant red-brown sph + infilling thin fractures.
						67.0 - FOI Thinly banded, noncarbonaceous, massive pyritic S <sub>2</sub> . Banding defined by local concentrations of base metal. Mag. occurs in thin discontinuous bands aligned    to S <sub>2</sub> . Fst Ph + Zn For entire interval ranges from 3 to 8 1/2 in bottom 4' of unit. Cons in broken, resin, good. No visible weathering.
	1710 5	1810 8		17	41A14	± 7 ± B & A. (4L) / 95:5
		1214 6				medium, grey to black, P <sub>2</sub> ribbon banded, high grade, carbonaceous gtzite. S <sub>2</sub> surfaces are dark grey to black. Locally sph > P <sub>2</sub> . Abundant red-brown sph + diss py define diffuse ribbon bunches + in-fill thin fractures.
						73.6 to 77.0 is highly broken, fractured + brecciated. Local thin intervals of blocky 4L gouge recovered

Code	From	To	Recov.	No.	Unit	Description
1	10	14 16	20 22 24	26 28	30 34 35	
						Individual breccia fragments are generally small, < 2 cm $\phi$ and have angular edges. $P_3$ + chlorite phyllite + Qtz infill fractures.
						77-FOE less intensely brecciated than above. Bottom 8" contains abundant hematite infilling fractures. Bottom contact in 46 is sharp ragged + slightly brecciated.
						Est $Ph_1Z_2$ for entire interval 12-14%. $Sph >> Gal$
						TOI-71.4 $\bar{v}$ broken, recovery O.K.
						71.4-73.6 intact
						73.6-77.0 Rubble - $BxH$ + local gouge. 2.2' rec'd.
						77.0-FOE $\bar{v}$ broken, 2.0' rec'd. Some loss likely in higher brecciated zone.
	1810 B	11010 0		18	4121471	"Stringered"
		1310 5				Mod <sup>+</sup> soft to locally hard, light grey w green tinge, $PS_2$ foliated altered musc + chl phyllite. $S_2$ surfaces are dull medium grey = abundant pale green chl clots. Contains abundant thin stringers of $P_3$ , $P_6$ , lesser $Sph$ + $Gal$ . Est $To S$ = 10-12% dominantly $P_3$ . Est $To Ph_1Z_2$ 1-3%. Contains local, minor, thin lenticular magnetite $qtz$ veins.
						TOI-86.7 $\bar{v}$ broken, local minor incipient gouge in thin local X-cutting fractures. Recovery is good.
						86.7-FOE $\bar{v}$ broken, recovery good - no faults.

*FOH*







DIAMOND DRILL CORE LOG

Date: Aug 23 / 88

Hole Number: 88V-55

Reference Fabric Orientation Diagram:

Project: Vangorda Definition Drilling 1988

Location: Vangorda Deposit

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

Terr. Plane Co-ords.: 6902 987.64 N

9691.09 N

594 438.39 E

10 076.71 E

Grid Co-ords: 22E + 2.5

Elevation: 1158.97 m.

All symmetry determinations looking

Total Depth: 102.0 ft. (31.1m)

\_\_\_\_\_ with \_\_\_\_\_ dipping

Inclination: -90° (Vertical)

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

Purpose: Vangorda Deposit Definition Drilling - Met. Samples

Reason hole Terminated: Drilled into footwall

Logged by: C.V. Reed

Date(s) Logged: Aug. 23 / 88

Drilling Contractor: Arctic Diamond Drilling

Hole Cemented: No Steel down Hole: No

Size	CORE From	To	Collar Cased and Capped: <u>No</u>
<u>NQ</u>	<u>0</u>	<u>102.0</u>	

Assay Lab: Mine

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

Started: Aug. 13/88 Completed: Aug 14/88



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Lithologic Log

Code	From	To	Recov.	No.	Unit	Description
	10 14 16	20 22 24	26 28 30	34 35		
	10	1170		1	#	Old fill covered in no recovery
		52				
	1170	13173		12	#	
		114				10AB Anvil Batholith granitic boulders + fragments. Largest boulder 8" long. Local minor rusty orange mud fill recovered. 6.3' boulders/fragments + mud rec'd. - spread out in box.
	13173	15150		13	14E11	± Weathered ± Porous
		1148				Highly broken + fractured, mud hard to locally v hard, micaceous semi-massive pyritic S <sup>2</sup> . Contains local bands of py + interstitial grey gtz. Banding ranges on a scale of 1 to 10 cm aligned ll to S2. Qtz content increases moving down the unit. Banding makes up approx 20% of unit volume. Core locally slightly porous due to weathering of carbonate. Fracture surfaces show local patchy orange rust. Base metal content poor - est. Pb Zn 2-3%. No obvious faults.
						701 → 43.5 Rubble 1.8' rec'd.
						43.5 → 46.3 v broken, very o.k.
						46.3 → 53.2 Rubble 7.7' rec'd.
						53.2 → FoE v broken, very o.k.
	15150	15157		14	14A10	→ [5A619]
		170				Hard, black, CS <sub>2</sub> foliated, barren, carbonaceous <sup>micaceous</sup> gtzite. Margins of 4A are ll to S2. Contains thin bands containing dess <sup>-</sup> py - no visible base metal. Cut surface slightly rusted.
						Mud - broken, Rocky, GOOD

Code	From		To		Recov.		No.		Unit		Description	
	10	14	16	20	22	24	26	28	30	34		35
	15	15	7	16	11	5			15	14	12	4" stringered" weathered. Mod- soft, noncalcaneous, altered musc → chl phyllite. Unit is weathered to a patchy, rusty-orange. Contains abundant thin bands + stringers of qtz + plg + lesser sph. Fracture surfaces coated w rust orange coatings. Fresher surfaces are whitish-grey. Est % S = 12-15%. No obvious faults. Unit is v broken. Recv, O.K.
					18	7						
	16	11	5	18	13	5			16	14	16	Highly broken + fractured, mod soft, pale green-grey altered chl → musc phyllite. S <sub>2</sub> surfaces are pale, dull green & show local patchy rust orange weathering. Contains local incipient gouge from 82.5 → FOI. FOI → 66.0 v broken 2.1' rec'd. 66.0 → 72.4 rubble 6.9' spread out recovered. 72.4 → 75.0 v broken 1.9' rec'd. 75.0 → 82.0 rubble 4.3' rec'd. 82.0 → FOI v broken w incipient gouge    to S <sub>2</sub> .
					25	5						
	18	13	5	18	14	4			7	14	10	± minor ± 9 trace Massive bronze barren Po. Contains small subangular clasts of qtz + dol. Clasts generally < 1 cm Ø. Margins of Po band    to dominant foliation of surrounding phyllite. Core slightly broken, Recv Good.
					25	7						

Code	From				To				Recov.	No.	Unit	Description
	10	14	16	20	22	24	26	28				
	18	17	4	19	13	0			18	14L	GOUGE + BxA	<p>creamy, white w local greenish tinge, flakey gouge.                      contains local intervals of light greenish-grey chloritic phyllite breccia. Dominant fracture + gouge margin is 30° to core axis // to dominant foliation. This is a <u>significant</u> fault.                      Core is highly broken gouge + BxA.                      TOI → 88.5 1.2' gouge rec'd.                      88.5 → FOI 3.8' gouge + phyllite BxA rec'd.</p>
	19	13	0	11	0	12	0			14L16		<p>mod-soft, pale green-grey, altered chl → musc phyllite. S<sub>2</sub> surfaces are pale greenish-grey w local talcose coatings.                      contains local minor incipient gouge in thin intervals // to S<sub>2</sub>. Abundant chl developed in thick laminations // to S<sub>2</sub>. Local v minor py content in filling thin fractures.                      Core v broken. Rec'd O.K.</p>
<p style="font-size: 2em; font-family: cursive;">FOI</p>												

ASSAY LOG (SAMPLER'S COPY)

CODE	FROM		TO		SAMPLE	INTR.	REC (m)	UNIT	DESCRIPTION					
	10	14	16	20										
1	10	14	16	20	22	26	28	30	32	34	36	40	42	
		11 4		13 3	165516	162	125	141E11	Weathered + porous					
		13 7 3		14 3 5	165517	136	147	141E11	" "					
		14 3 5		14 7 7	165518	143	150	141E11	" "					
		14 7 1		15 2 0	165519	130	136	141E11	" "					
		15 2 0		15 5 0	165160	107	108	141A10	→ [SAG19]					
		15 5 0		15 5 7	165161	158	170	41L241	"Stringered" weathered					
		15 5 7		16 1 5										
		25 5		25 7	165162	109	112	41H101	± 8 min ± 9 min					
		18 3 5		18 4 4										
<del>FOH</del>														



PROJECT \_\_\_\_\_ DRILLHOLE NO. BBV-55 COORDINATES: N \_\_\_\_\_ DATE \_\_\_\_\_  
 LOCATION \_\_\_\_\_ HOLE SIZE \_\_\_\_\_ E \_\_\_\_\_ PAGE    of     
 LOGGED \_\_\_\_\_ DIAMETER \_\_\_\_\_ 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.		
17		0		0														
21		4.2		0														
37		2.8		0														
43.5		2.1		0														
47.0		4.3		2.0														
50		2.9		0														
52		2.2		0.7														
54		1.7		0														
59		6.5		0														
61		2.2		0														
66		3.0		0														
68		2.0		0														
70		2.0		0														
72		2.5		0														
75		2.9		0														
78		2.5		0														
82		2.2		0														
85		2.9		1.0														
88		1.4		0														
92		3.3		0														
95.5		3.5		0														
102		6.9		1.7														

Fig. 1. Typical rock mechanics core log.

DIAMOND DRILL CORE LOG

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

Hole Number: 88V-56

Reference Fabric Orientation Diagram:

Project: Vanguarda Summer 1988

Location: Vanguarda Deposit.

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

Terr. Plane Co-ords.: 6902965.93 N

9662.44 N

594457.06 E

10076.13 E

Grid Co-ords: 23 E +2.5

Elevation: 1158.50 m.

All symmetry determinations looking

Total Depth: 92.0' (28.0 m)

\_\_\_\_\_ with \_\_\_\_\_ dipping

Inclination: -90° (Vertical)

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

Purpose: Vanguarda Ore Reserve Definition - Met samples.

Reason hole Terminated: Drilled into foot wall

Logged by: C.V. Reed

Date(s) Logged: \_\_\_\_\_

Drilling Contractor: Arctic Diamond Drilling

Size	CORE From	To	Collar Cased and Capped: <u>No</u>
<u>NQ</u>	<u>0</u>	<u>92.0'</u>	

Hole Cemented: No Steel down Hole: No

Assay Lab: Mine

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

Started: Aug 14/88 Completed: Aug 14/88



Code	From		To		Recov.		No.		Unit		Description		
	10	14	16	20	22	24	26	28	30	34		35	
L		10	0	13	10	3					#	Cored to no recovery.	
					9	2							
L		13	10	3	13	2	0				12	#	OIB
					9	8							Highly weathered, cream-rusty orange 10 AR amol with bio granite boulder fragments. Largest fragment is 5 cm long. 1.5' 10A13 fragments rec'd.
L		13	12	0	13	13	4				13		creamy, white oxide mud P.P.P.P.P. Contains small angular gtz fragments, small euhedral pyrope, + local thin black mud bands. Mud is not flakey and does not have a greasy feel. My feeling is that this mud is a highly oxidized + leached horizon at the top of the orebody at the OIB interface. I have not seen this in any other Vancouver lake. Interesting to see what this interval assays out of!! Core is hard - Perry GOOD.
					1	2							
L		13	13	4	13	17	0				14	14E4	Highly weathered, porous, + fissile. V soft + fissile, dark brown-green, porous, fissile, highly weathered + oxidized, massive pyritic S <sup>2+</sup> . Vague banding defined by local concentrations of base metal. Banding is thin, defined S <sub>2</sub> + is generally < 1 cm thick. 36.2-370 is 4E4 sand. Est Pb/Zn 14-16%. Core is "sandy" and highly broken, 2.8' rec'd.
					11	2							
L		13	17	0	14	11	2				15	14C13	Highly broken, locally porous, barren, poorly banded, pyritic glauco.
					1	2							

CURRAGH RESOURCES INC.  
Lithologic Log

Code	From		To		Recov.		No.		Unit		Description
	10	14	16	20	22	24	26	28	30	34	
											<p>Banding is thin, generally &lt; 3cm thick defined by py + interstitial gtz aligned // to S<sub>2</sub>.</p> <p>Est % Py 30-40% Est Pbt Zn &lt; 2%. No visible weathering, core is rubble. 3.3' rec'd.</p>
L	1411	3	1418	0					16	141C13	<p>Porous Bx A.</p> <p>Highly broken + fractured, med hard, micaceous, barren, pyritic gtzite. Individual "clasts" are angular + range in size up to 5 cm. Fractures infilled w/ fine py + locally by calcite. Calcite has weathered out in fractures giving the core a "pockmarked" appearance. Est % Py 50-60% Est % Pbt Zn &lt; 3%. Bottom of unit ends at polished py slickensides. Fault is 000/58°. Slicks show strike slip movement. Likely not a significant fault.</p> <p>Core is rubble - 3.5' spread out rec'd.</p>
L	1418	0	1614	0					17	141C13	<p>Rubble.</p> <p>Recovery is extremely poor!! Largest piece 8 cm long. Unit is med hard, locally slightly porous, barren, pyritic gtzite fragments. May be associated although difficult to distinguish due to highly broken nature of the core.</p> <p>50.0 - 50.0 V broken 1.9' rec'd.</p> <p>50.0 - 52.0 rubble 0.7' rec'd</p> <p>52.0 - 57.0 rubble 0.6' rec'd</p> <p>57.0 - 62.0 rubble 0.4' rec'd</p> <p>62.0 - EOL rubble 0.9' rec'd.</p>

CURRAGH RESOURCES INC.  
Lithologic Log

Code	From	To	Recov.	No.	Unit	Description		
1	10	14	16	20	22 24	26 28 30	34 35	
	1640	1835				18	14L10	± 27 ± DxA + Gouge minor
		2.55						70Z-77.0 is highly fractured + broken, light buff grey, noncalcareous musc phyllite rubble. Largest piece rec'd is 2cm d.
								77.0-77.3 is creamy white, flaky, musc + coarse gouge. margins at gouge lost in rubble.
								Remaining interval is highly fractured + broken, altered musc chl phyllite. Unit is light grey-green w/ local pale green chl laminations developed along S <sub>2</sub> foliation. Contains local thin stringers of dominant fine py + lesser Po.
								70J - 66.0 Rubble, 1.5' rec'd.
								66.0 - 72.0 Rubble 1.2' rec'd
								72 - 77.0 Rubble + Gouge 1.2' rec'd.
								77.0-79.0 Rubble; 1.4' rec'd
								79.0 - EOI Rubble 3.2' rec'd.
	1835	1920					14L16	± 27.
		2.80						Highly altered, pale green-grey, P <sub>2</sub> laminated, chl + musc phyllite. Contains abundant light pale green to locally dark olive green chl laminations developed    to S <sub>2</sub> foliation. S <sub>2</sub> surfaces are dull pale to medium green. Unit is v soft, noncalcareous. Contains local thin bands + stringers of gtz + diss py + lesser Po. Est % S = 2-3% dominantly P <sub>2</sub> .
								70I - 85.0 Rubble due to fracturing, 1.6' rec'd.
								85.0 - EOH v broken, 5' core rec'd.

EOH

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		
	13	12	0	10.2	4	11681576	11	4	11	6	5	1	1	1	OXIDE MUD
	13	12	4	11.3	0	11681577	13	6	13	3	3	1	14	E14	Highly weathered & Porous
	13	17	0	12.6	3	11681578	14	3	13	5	5	1	14	C13	
	14	11	3	13.3	5	11681579	12	2	12	5	5	1	14	C13	Porous & B&A
	14	13	5	14.6	0	11681610	14	5	11	4	4	1	14	C13	" Poor recy.
	14	18	0	15.8	0	11681611	14	0	13	0	0	1	14	C13	Rubble Poor recy
	15	12	0	17.4	0	11681612	15	0	11	0	0	1	14	C13	" "
	15	17	0	18.9	0	11681613	15	0	10	6	6	1	14	C13	" "
	16	12	0	19.5	0	11681614	12	0	11	2	2	1	14	C13	" "
<del>EOH</del>															

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	48	52	56	60	64	68	72	
					13	18			P15R									5	18			Banding in 4C	
					14	18			P15R									6	15			" " "	
					17	18			P15R									5	17			Micaceous Foliation	
					18	55			P15R									6	10			" "	
					19	10			P15R									7	11			" "	
<del>FOA</del>																							



DIAMOND DRILL CORE LOG

Date: Sept. 19/88

Hole Number: BBV-57

Reference Fabric Orientation Diagram:

Project: Vangorda Summer 88

Location: Vangorda Deposit

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

Terr. Plane Co-ords.: 6902779.39 N

Model Co-ords

9,452.88

594562.74 E

10,030.39

Grid Co-ords: 30E +1.0

Elevation: 1161.39 m

All symmetry determinations looking

Total Depth: 36.6 m

NW with S2 dipping

Inclination: -90° (vertical)

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

Purpose: One reserve definition + met samples

Reason hole Terminated: Drilled into footwall

Logged by: C.V. Reed

Date(s) Logged: \_\_\_\_\_

Drilling Contractor: Arctic Diamond Drilling

Hole Cemented: N Steel down Hole: N

Size From To Collar Cased and Capped: N

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

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

Started: \_\_\_\_\_ Completed: \_\_\_\_\_

Code	From	To	Recov.	No.	Unit	Description
	10 14 16	20 22 24	26 28	30 34 35		
	10 14 16	17 18 7		11	#1	Cored in no recovery
		5 7				
	11 18 7	12 12 0		12	#1	10 AB 0/13 fragments + boulders. Also contains minor re-ductal
		16 7				small 0/13 phyllite fragments, 10 AB fragments are locally
						rusted + fissite. Largest piece 0.3' long
						3.3' OIR boulder fragments reid.
	12 13 0	12 17 2		13	#1	Iron <sup>oxide</sup> cemented 0/13 till breccia.
		18 3				Contains small angular pebbles <sup>fragments</sup> of granite + phyllite
						in matrix of rusted iron cemented 0/13 till. B&A is
						very porous. Minor rusty-orange sand also recovered.
						3.4' of highly broken, extremely weathered, iron oxide
						cemented 0/13 breccia recovered.
	12 17 2	13 12 0		14		IRON OXIDE
		19 8				Rusty orange, med-heavy, extremely, rusted + weathered
						base metals leached out - iron oxide. Core is extremely
						fissite. 0.6' of extremely broken core + rust "sand"
						recovered.
	13 13 0	13 17 0		15	14IE10	SAND.
		11 3				Brassy-yellow, fine grained pyrite sand. No base metal
						content. 0.5' reid.

Code	From	To	Recov.	No.	Unit	Description
1	10 14 16	20 22 24	26 28	30 34 35		
	13170	15155		16	141614	Weathered ± Porous.
		1169				<p>mod- hard to locally mod- soft, thinly banded, noncalcareous, massive baritic/pyritic S<sup>±</sup>. Unit is not rusted- however it is locally fissile + porous due to weathering. Banding is defined by variations in Ba, P<sub>5</sub> + base metal content. Banding generally &lt; 2 cm thick = defines S<sub>2</sub> Fst ± % Pb + Zn = 12-14%. Overall the unit is a brown-grey colour.</p> <p>70I-39.0 v broken, very O.K</p> <p>39.0-41.0 v broken, 1.9' rec'd.</p> <p>41.0-45.0 v broken, very O.K</p> <p>45.0-50.0 v broken, 4.5' rec'd.</p> <p>50.0-EOI rubble, 3.0' rec'd - spread out.</p>
	15155	16110		17	141E17	± 8 <sup>minor</sup> ± Sand
		1186				<p>Highly weathered, locally porous + fissile, brown, brass-yellow fine grained massive py. Contains local minor magnetite infilling features.</p> <p>70I-59.0 - rubble + P<sub>5</sub> sand very O.K</p> <p>59.0-EOI v broken, very good.</p>
	16110	17123		18	141E18	± 4 ± 1
		12120				<p>v hard, brass-yellow, poorly banded, magnetic, noncalcareous massive pyritic S<sup>±</sup>. Contains abundant, thin highly deformed bands of black magnetite. Commonly, these bands are associated with local concentrations of sph + gal</p>

Code	From		To		Recov.		No.		Unit		Description
	10	14	16	20	22	24	26	28	30	34	
											<p>less within the magnetite. Bands are generally &lt; 1cm thick and show random-flowing textures perhaps related to ductility contrasts in 4E host. Qtz occurs locally interstitial to P<sub>2</sub> in thin diffuse bands aligned // to S<sub>2</sub>. No visible weathering - No faults Core intact, Recv. GOOD</p>
	1712	3	1911	7			19		141E11		<p>± 8 minor Barren, very hard, noncalcareous, slightly siliceous, massive fine grained py. Contains broad thick bands defined by local concentrations of interstitial, fine, gray qtz. Banding defines S<sub>2</sub>. Est % Qtz 15-20%. Est P4/E2 &lt; 2%. Contains local minor mag in tiny local black specks. No visible weathering. No faults. 70.7 - 76.0 Intact 76.0 - 77.8 Slightly broken due to steep fracture, recv. good 77.8 - 86.8 Intact 86.8 - FOI in broken, recv. good</p>
	1911	7	1914	5			110		141E11		<p>± 4 ± 8 minor v hard, most siliceous, noncalcareous, poorly P<sub>2</sub> banded, massive psitic sulphide. Banding is defined dominantly by local interstitial fine qtz. Local concentrations of sph. gal also define bands. Banding is generally &lt; 3cm thick aligned // to S<sub>2</sub>. Contains local minor, highly fractured, magnetitic white qtz "eyes".</p>

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			
																	Mag occurs locally in tiny "spots" in trails // to S <sub>2</sub> .	
																	Est % Qtz 20-25% Est Pb+Zn 4-6%	
																	(Core in broken, heavy GOOD.	
	1914	5	1917	6					111	141	10						± 2 minor ± 4 minor	
			1219	7													Mod-soft, micaceous, white-grey, altered musc > chl phyllite	
																	Contains local minor <sup>thin</sup> stringers of fine Py and lesser sph.	
																	S <sub>2</sub> surfaces are dull white-grey + have "fucose" powder	
																	coatings. Margins of 4L are sharp // to S <sub>2</sub> .	
																	Est % S = 5-6% dominately Py.	
																	(Core in broken, heavy good.	
	1917	6	11012	3					112	141	11						(4L 247) trace	
			1311	2													Brown, very hard, slightly siliceous, massive, brassy-yellow	
																	pyritic S = Contains local minor interstitional fine grey Qtz	
																	in thin diffuse bands which vaguely define S <sub>2</sub> .	
																	At 101.7 5 cm thick, mod-soft altered, white-grey,	
																	musc phyllite. Margins of 4L are // to S <sub>2</sub> . 4L contains	
																	abundant thin stringers of dominately Py, minor Pb + lesser	
																	Sph.	
																	Est Pb+Zn = 2%. No faults. No visible	
																	weathering.	
																	(Core slightly broken. heavy GOOD.	

CURRAGH RESOURCES INC.  
Lithologic Log

Code	From		To		Recov.		No.		Unit		Description
	10	14	16	20	22	24	26	28	30	34	
	110	12	3	117	13	8		113	14	10	(10 @ 9 miner) 90:10. Light buff white-grey, locally CS <sub>2</sub> foliated, nonconformous, soft altered musc>chl phyllite. S <sub>2</sub> surfaces are white-buff and have white "balise" coatings. Contains local fine lithons defined by thin gtz-rich laminations. Locally, S <sub>2</sub> highly disrupted due to fracturing. Contains local, highly fractured + brecciated magnetitic gtz veins causing up to 6" thick. Fractures in 10 @ intilled in pale green chl + lesser fine py + traces of sp. Core is broken, rocky, good. Local minor incipient gorge in steep fracture at 110.5
				3	4	7					
	111	13	8	112	10	0		114	13	10	Mud soft, nonconformous, medium grey, CS <sub>2</sub> foliated, slightly carbonaceous, muscovite phyllite. Local thin gtz rich laminae define microlithons. S <sub>2</sub> foliation highly disrupted by abundant thin fractures. S <sub>2</sub> surfaces are shiny medium grey. Contains local minor chl in thin laminations developed // to S <sub>2</sub> . 705 - 119.2 is broken, rocky, good 119.2 - 119.4 soft, flaky, incipient gorge in thin fracture 090°/45° 119.4 - 120.0 is broken, rocky, good.
				3	6	6					

EOH

ASSAY LOG (SAMPLER'S COPY)

Date SEP/19/88 Sampled by \_\_\_\_\_

CODE	FROM		TO		SAMPLE	INTR.				REC (m)	UNIT	DESCRIPTION	
	10	14	16	20		22	26	28	30				32
	127	0	132	0	168118					50		FE	OXIDE
	132	0	137	0	168119					50		4E10	SAND
	137	0	141	0	168120					40		4G17	WEATHERED
	141	0	145	0	168121					40		4G17	WEATHERED
	145	0	150	0	168122					50		4G17	WEATHERED
	150	0	155	5	168123					55		4G17	WEATHERED
	155	5	161	0	168124					55		4E10	+8 MINER I SAND
	161	0	164	4	168125					34		4E18	
	164	4	168	5	168126					41		4E18	+4
	168	5	172	3	168127					38		4E18	
	172	3	177	0	168128					47		4E11	
	177	0	182	0	168129					50		4E11	
	182	0	187	0	168130					50		4E11	
	187	0	191	7	168131					47		4E11	
	191	7	197	5	168132					28		4E11	+4
	197	5	197	6	168133					31		4L10	+2 min + 4 min
	197	6	110	21	168134					45		4E11	(4L) trace



PROJECT 88V-57 BULLHOLE NO. \_\_\_\_\_ COORDINATES: N \_\_\_\_\_ DATE \_\_\_\_\_  
 LOCATION \_\_\_\_\_ HOLE SIZE \_\_\_\_\_ E \_\_\_\_\_ PAGE    of     
 LOGGER \_\_\_\_\_ INCLINATION \_\_\_\_\_ ELEVATION \_\_\_\_\_



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

**GEOTECHNICAL CORE LOG**

DEPTH (TO)	LENGTH OF RUN	CORE RECOVERY		DIP		HARDNESS	DEGREE OF BREAKAGE		DEGREE OF WEATHERING	ROCK TYPE	BEDDING DIP		BEDDING JOINTS		CROSS JOINTS		COMMENTS
		LENGTH	%	LENGTH	%		CAVITY	NO.			DEPTH	ANGLE	NO.	FREQ.	NO.	FREQ.	
22		3.3															
27		3.6															
32		1.1															
39		2.9															
41		2.1															
45		4.8			.9												
50		4.9			.9												
55		2.8															
59		3.8															
62		2.3															
67		5.8			5.1												
72		5.4			4.2												
77		5.2			3.4												
82		5.7			4.8												
87		5.7			5.0												
91 1/2		5.0			2.0												
96		6.2			2.1												
101 1/2		5.7			2.2												
107		5.0			.8												
108		1.6															
111		3.4															
116		5.5			.4												
120		4.6			.9												

Fig. 1. Typical rock mechanics core log.

DIAMOND DRILL CORE LOG

Date: Sept. 19/88

Hole Number: 88V-58

Reference Fabric Orientation Diagram:

Project: Vanguarda Summer 88

Location: Vanguarda Deposit

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

Terr. Plane Co-ords.: 6902 788.98  
~~6902 788.10~~ N

Model Co-ords

~~9459.39~~ 9452.48

594 574.05  
~~594 562.74~~ E

~~10,036.20~~ 10,045.22

Grid Co-ords: 30 E +1.5

Elevation: 1162.62

All symmetry determinations looking

Total Depth: 34.1m

NW with S2 dipping

Inclination: -90° (Vertical)

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

Purpose: Definition Drilling + met. samples

Reason hole Terminated: Drilled into footwall

Logged by: C.V. Reed

Date(s) Logged: Sept 19/88

Drilling Contractor: Arctic Diamond Drilling

Size	<u>CORE</u> From	To	Collar Cased and Capped: <u>N</u>
_____	_____	_____	
_____	_____	_____	
_____	_____	_____	

Hole Cemented: N Steel down Hole: N

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

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

Started: \_\_\_\_\_ Completed: \_\_\_\_\_



Code	From	To	Recov.	No.	Unit	Description
1	10 14 16	20 22 24 26 28 30 34 35				
	10 0	12 4 8		11	#1	Cored w no recovery
		7 6				
	12 4 8	14 2 0		12	#1	O/B granitic boulder fragments.
		1 2 8				V weathered + porous, fissile cream-tan-orange weathered,
						10AB overburden granitic boulder fragments. Largest piece 10cm
						long. Average piece 3 cm $\phi$ . Moving down the hole, fragments
						show more abundant iron staining.
						70J-27.0 2.3' 10 AB fragments resid.
						27.0-32.0 0.3' 10AB rubble resid.
						32.0-42.0 1.3' 10AB fragments resid.
	14 2 0	16 1 1		13	41E1	Porous.
		1 8 6				Mod hard, V broken, noncalcaneous, siliceous, semi-massive psitic
						S <sup>2</sup> . Locally porous due to weathered carbonate? No visible
						rust. Est % Qtz 15-20% - occurs interstitial to
						ps in broad diffuse bands. Est pct Zn ~ 2%.
						Core is rubble due to abundant steep fractures.
						42.0-47.0 2.1' resid. rubble
						47.0-52.0 1.1' resid. rubble
						52.0-57.0 0.8' resid. rubble
						57.0-61.0 2.2' resid. rubble
	16 1 1	16 8 8		14	41E1	#4
		1 2 1 0				
						Very hard, noncalcaneous, pearl, PS <sub>2</sub> banded, siliceous &
						semi-massive psitic S <sup>2</sup> . Contains local thin fractures in filled
						w massive red-brown sph. Qtz occurs interstitial to

Code	From	To	Recov.	No.	Unit	Description
1	10	14 16	20 22 24	26 28	30 34 35	
						<p>fine grained py in broad diffuse bands. Est % Qtz 15-20%. Est % Pb + Zn ranges from 2% to 6%. No faults. Broken surfaces are locally slightly tarnished. Core <math>\bar{v}</math> broken, very good.</p>
	16 B 8	18 19 2		15	141C13	<p><math>\pm 5</math> trace. <math>\pm 8</math> trace Barren, <math>\bar{v}</math> hard, nonconformable, thickly P<sub>52</sub> banded, pyritic gtzite. Banding ranges on a scale up to 1.0 thick - defined by fine py + interstitial fine grey gtz. P<sub>5</sub> rich bands are 50% of unit volume. Est % P<sub>5</sub> <math>\approx</math> 30-40%. Contains local thin fractures inhibited in fine py. 70.8 - 70.8 <math>\bar{v}</math> broken, 1.0' core loss due to steep fracture 70.8 - 72.6 <math>\bar{v}</math> broken, very good. 72.6 - 74.2 rubble due to steep fracture, very good. 74.2 - EOI <math>\bar{v}</math> broken, very good. No visible weathering. Local minor development of black carbonaceous in thin intervals near EOI. Local mag. in small clots elongate to S<sub>2</sub>.</p>
	18 19 2	19 11 0		16	141A10	<p><math>\pm 9</math> minor Dark grey, pyrite banded, low grade, carbonaceous gtzite. S<sub>2</sub> surfaces are carbon black. Thin local gtzite laminations define microlithons. S<sub>2</sub> foliation is poorly developed - defined by carb folia + pyrite banding. Minor diss<sup>n</sup> sph in top 5" of unit. Local minor Cp<sub>5</sub> inhibiting thin fractures. Upper contact is sharp + X-cuts S<sub>2</sub>. Lower</p>

Code	From		To		Recov.		No.		Unit	Description
	10	14	16	20	22	24	26	28		
										contact lost in rubble. Est % Py 30% Est % Pb + Zn 2-3%. No visible weathering 70.5 - 89.7 intact, recov. O.K. 89.7 - 90.4 rubble due to fracturing - recov. O.K. 90.4 - FOI $\bar{u}$ broken, recov. O.K.
	1910		1915	5				7	141E11	$\pm$ B trace. Barren, $\bar{u}$ hard, poorly foliated, banded, moderately siliceous, semi-massive pyritic S <sub>2</sub> . Unit is noncalcareous. Banding locally defined by fine interstitial goe, gte generally $\leq$ 2 cm thick aligned // to S <sub>2</sub> . Contains local minor mag in fine "specks" in trails aligned // to S <sub>2</sub> . No faults. No visible weathering. 70.1 - 91.6 $\bar{u}$ broken due to sharp fractures. Recov GOOD. 91.6 - FOI intact. Est % Py $\approx$ 80%.
	1915	5	1101	7	9			8	141C13	$\pm$ B minor - $\pm$ Q trace $\pm$ "micaceous foliations" Thick, PS <sub>2</sub> banded, $\bar{u}$ hard, noncalcareous, pyritic gte. Banding ranges on a scale up to 1.5' thick defined by fine py + interstitial goe, gte. Banding is 50% of unit volume. Unit is barren of base metal. Contains local minor mag in fine "specks" in trails aligned // to S <sub>2</sub> . Cng occurs locally in traces within fine fractures. Local development of micaceous foliations becoming more dependent moving down the hole. Foliation are developed // to S <sub>2</sub> + cone tends to break along this foliation. No obvious faults. No visible weathering.

Code	From		To		Recov.		No.		Unit		Description
	10	14	16	20	22	24	26	28	30	34	
											Est % P <sub>2</sub> 40%. Est % Ph + E <sub>m</sub> L 2%. Core in broken, heavy GOOD. Bottom contact in 4L is slightly brecciated.
	11017	9	11112	0					14140		± 2 minor & 4 minor. Mostly soft, white-grey, locally highly fractured, P <sub>52</sub> foliated, micaceous altered musc + sericite + chl phyllite. S <sub>2</sub> surfaces are dull white-grey + minor pale green chl spots + locally contain white talcose coatings which strongly marks fingers. Contains locally abundant thin fractures in filled in decimate P <sub>3</sub> + lesser red-brown sph. Est % S <sup>+</sup> 5-6%. Core in broken, heavy O.K.
											FOL

ASSAY LOG (SAMPLER'S COPY)

CODE	FROM		TO		SAMPLE	INTR.	REC (m)	UNIT	DESCRIPTION
	10	14	16	20					
	12	14	14	20	116181012	150	12.6	14E1	Porous
	14	17	15	20	116181013	150	11.9	14E1	"
	15	20	15	20	116181014	150	11.3	14E1	"
	15	17	16	20	116181015	141	12.6	14E1	"
	16	11	16	20	116181016	140	15.0	14E1	± 4
	16	15	16	20	116181017	137	14.5	14E1	± 4
	16	18	17	20	116181018	132	15.0	14C3	
	17	20	17	20	116181019	134	14.8	14C3	
	17	15	18	20	11618110	146	14.9	14C3	
	18	00	18	20	11618111	144	14.9	14C3	
	18	44	18	20	11618112	148	15.0	14C3	± 5 trace
	18	12	19	20	11618113	118	11.8	14A10	
	19	10	19	20	11618114	145	13.4	14E1	± 8 trace
	19	15	19	20	11618115	143	14.8	14C3	± 8 minor ± 9 trace
	19	18	110	103	11618116	134	14.7	14C3	"
	110	103	110	103	11618117	147	15.0	14C3	"
<del>FOIA</del>									





DIAMOND DRILL CORE LOG

Date: Sept 21/88

Hole Number: 88 V-59

Reference Fabric Orientation Diagram:

Project: Vanguardia Summer 88

Location: Vanguardia Deposit

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

Terr. Plane Co-ords.: 6902724.30 N

Model Co-ords

9392.14

594592.22 E

10015.59

Grid Co-ords: 32E +0.5

Elevation: 1162.84

All symmetry determinations looking

Total Depth: 33.8m

NW with S2 dipping

Inclination: -90° (Vertical)

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

Purpose: One reserve definition & met samples

Reason hole Terminated: Drilled into footwall

Logged by: C.V. Reed

Date(s) Logged: Sept 21/88

Drilling Contractor: Arctic Diamond Drilling

Hole Cemented: N Steel down Hole: N

Size            CORE From            To            Collar Cased and Capped: N

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

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

Started: \_\_\_\_\_ Completed: \_\_\_\_\_

CURRAGH RESOURCES INC.  
Lithologic LogDate: Sept 21/88 Logged By: cur

Code	From		To		Recov.		No.		Unit		Description
	10	14	16	20	22	24	26	28	30	34	
	10	0	12	5	0			11		#	0/15 fill
				7	6						(cored w no recovery)
	12	5	15	1	6			12	41	12	7 "stringered" weathered.
				1	5						Soft <sup>locally fissile</sup> weathered, noncalcareous, altered musc + chl
											phyllite Shows abundant patch tan-orange rust on cut surface. S <sub>2</sub> surfaces have abundant dark-orange rust coatings. Where fresh, S <sub>2</sub> surfaces are shiny, light to medium grey. Contains local thin bands + stringers of dominate P <sub>g</sub> , lesser P <sub>o</sub> , + traces of sph. Banding generally 2-2mm thick    to S <sub>2</sub> . Unit is P <sub>12</sub> foliated.
											Est % S 3-5%, dominantly P <sub>g</sub> . Degree of weathering decreases gradually moving down the unit.
											TOI - 28.0 w broken due to excessive weathering may O.K.
											28.0 - 32.0 w broken along S <sub>2</sub> , recov. good
											32.0 - 33.0 w broken + "poker chippy", recov. O.K.
											33.0 - 37.0 rubble due to weathering, 1.3' rec'd.
											37.0 - 52.0 w broken, 13.5' core rec'd.
											No obvious faults. Local core loss likely due to weathering.
	15	1	11	1	1				41	12	7 #6 "Stringered"
				3	3						Unit appears the same as #2 except less weathered.
											Unit is mod-soft, locally CS <sub>2</sub> foliated, noncalcareous, light grey-green to locally green-grey, musc + chl altered

CURRAGH RESOURCES INC.  
Lithologic Log

Code	From		To		Recov.		No.		Unit		Description
	10	14	16	20	22	24	26	28	30	34	
											phyllite. S <sub>2</sub> surfaces are "steely" grey, in local pale green chl. clots. Contains abundant stringers & thin bands of qtz + py & lesser Po ± traces of sph. Banding locally defines both S <sub>1</sub> & S <sub>2</sub> . No obvious faults, however there are thin local intervals of flakey incipient gouge developing along fractures. Cut surface is <sup>locally</sup> slightly rusted on sulphate rich bands.
											Est % S <sup>2-</sup> ≈ 5-6% Dominately Po in lesser Po.
											TUE-65.0 in broken along S <sub>2</sub> Recry GOOD.
											65.0-67.0 in broken due to fracturing, Recry GOOD
											67.0-89.2 in broken - dominately along S <sub>2</sub> Recry GOOD.
											89.2-91.0 rubble due to end run Recry GOOD.
											91.0-93.6 in broken, recry good
											93.6-95.5 in broken due to fracturing, Recry GOOD.
											95.5-98.0 in broken, recry good.
											98.0-100.0 rubble due to fracturing, recry o.k.
											100.0-102.8 in broken, recry good.
											102.8-103.0 rubble
											103.0-104.5 mismatch, some o/b rubble in box.
											104.5-109.4 in broken, recry good
											109.4 - FOH slightly broken, recry good.
											This hole was a Miss!!
											FOH





DIAMOND DRILL CORE LOG

Date: AUG 31/88

Hole Number: 88V-60

Reference Fabric Orientation Diagram:

Project: Vanguarda Summer 1988

Location: Vanguarda Deposit.

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

Terr. Plane Co-ords.: 6902 922.87 N

9756.47N 20E

594 268.10 E

9906.56E

Grid Co-ords: 20E -3.0

Elevation: 1147.01 m.

All symmetry determinations looking

Total Depth: 1000 ft. (30.5m)

\_\_\_\_\_ with \_\_\_\_\_ dipping

Inclination: -90° (Vertical)

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

Purpose: Vanguarda Definition Drilling + Met. samples.

Reason hole Terminated: Drilled into footwall.

Logged by: C.V. Reed

Date(s) Logged: Aug. 31 1988

Drilling Contractor: A.D.D.

Hole Cemented: NO Steel down Hole: NO

Size	<u>CORE</u> From	To	Collar Cased and Capped: <u>NO</u>
<u>NQ</u>	<u>0</u>	<u>100.0'</u>	

Assay Lab: Mise

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

Started: Aug. 16/88 Completed: Aug. 16/88



Code	From		To		Recov.		No.		Unit	Description	
	10	14	16	20	22	24	26	28			30
		10	0	118	6					#	Cased in no recovery.
				5	7						
		118	6	119	3					R	#
				5	9						
											TOI → 19.3 Creamy - tan O/B mud. Contains small subrounded O/B pebbles. Also contains variably sized fragments of pegmatitic white gtz. Largest piece is angular + 2 cm Ø. Qtz fragments likely from bedrock vein which was only rock competent enough to recover at bedrock interface. 0.6' mud + fragments rec'd.
		119	3	119	7					3	4L.P.
				6	0						
											19.3 → FOI rusty, orange, highly weathered iron cemented phyllitic bedrock? Largest piece recovered is 4 cm long. Difficult to tell whether pieces are highly weathered, iron stained + cemented phyllitic bedrock or fragments of O/B phyllitic boulders. Unit is very porous + fissile. Presence of small angular pegmatitic gtz fragments above suggests that recovered pieces are bedrock. 0.4' fragments rec'd.
		119	7	127	0					4	14G4
				8	2						
											Mod- Weathered. Highly fractured, mod-hard, light grey-brown, nonconformable, baritic massive sulphide. Largest piece recovered is 5 cm long. Core is surprisingly fresh considering proximity to O/B interface. Grade difficult to visually estimate due to poor condition of the core. Larger fragments are thinly banded // to S <sub>2</sub> - defined by variations in P <sub>2</sub> , base metal + ba content. Est Pb + Zn 8-10%. Top 3" of unit is soft + very fissile. Significant core loss likely at top of unit.

Assay = 14.89 Pb + Zn

Code	From		To		Recov.		No.		Unit		Description
	10	14	16	20	22	24	26	28	30	34	
											701 → 21.0 Rubble, 0.6' rec'd.
											21.0 → FoI Rubble, 1.8' rec'd.
		127	0	131	4				5	1410	Weathered
					9	6					Soft, creamy, rusty-tan, moderately weathered, altered micaceous phyllite. Unit is noncalcareous, PS <sub>2</sub> foliated. S <sub>2</sub> surfaces shiny light silvery grey + have yellow-orange patchy weathering coatings. Unit highly fissile due to weathering. Margins of 4L lost in rubble.
											Unit is rubble + micaceous flakes, only 0.6' recovered
		131	4	1317	0				16	14E10	± 1 Weathered + Porous.
					11	3					Mod' hard, highly weathered + broken, porous, massive pyritic S <sup>±</sup> . Unit is poorly banded - defined by local interstitial grey Qtz. Porosity likely due to weathered carbonate. Est Qtz = 15%. Est Pb/Zn = 2%.
											Core is Rubble only, 2.1' rec'd.
		1317	0	1716	2				17	131619	Moderately Weathered
					23	2					Black, mud-soft, PS <sub>2</sub> foliated, noncalcareous, carbonaceous phyllite. S <sub>2</sub> surfaces are shiny dark grey → black. Top 20' of unit shows patchy rust on S <sub>2</sub> surfaces. S <sup>±</sup> content very low, approx 2% dominantly ps in traces within thin Qtz-rich laminae.
											37.0 → 42.0 Rubble, 1.2' rec'd.
											42.0 → 47.0 Rubble, 1.2' rec'd, locally slightly brecciated.

CURRAGH RESOURCES INC.  
Lithologic Log

Code	From	To	Recov.	No.	Unit	Description
1	10	14 16	20 22 24	26 28	30 34 35	
						47.0 → 49.0 Rubble 1.1' rec'd.
						49.0 → 52.0 v broken 2.9' rec'd.
						52.0 → 62.0 rubble 3.2' rec'd.
						62.0 → 67.0 "Poker Chippy" 3.3' rec'd.
						67.0 → 71.0 "Poker Chippy" 2.8' rec'd.
						71.0 → FOI v broken 4.1' rec'd.
	1716 2	1718 6	24 0	18	141C13	± 8 minor ± 5 minor v hard, barren, noncalcareous, thickly banded, pyritic quartzite. Banding defined by quartz ranges on a scale from 5cm to 15 cm aligned N to S <sub>2</sub> . P <sub>2</sub> banding contains local minor small mag blebs. P <sub>2</sub> banding is 60% of unit volume. Est % P <sub>2</sub> = 55% Est P <sub>1</sub> Zn = 2% No faults, no visible weathering. Top 3" of unit is highly fractured & brecciated gl <sub>2</sub> veins. Near FOI local minor development of carbonaceous filia N to S <sub>2</sub> . Core mud- broken, heavy, GOOD.
	1718 6	1819 9	27 4	19	141A14	± 9 trace. v hard, noncalcareous, moderately carbonaceous, very high grade ribbon banded quartzite. Ribbon banding defined by dominate reddish-brown sph + lesser less-py. Banding is 35% of unit volume. Locally banding defines lickers. S <sub>2</sub> surfaces are dull dark grey → black. Banding ranges from ~ 0.5 cm thick to 15 cm thick. Local traces of spg in thin fractures. No faults, no visible weathering.

CURRAGH RESOURCES INC.  
Lithologic Log

Code	From	To	Recov.	No.	Unit	Description
1	10	14 16	20 22 24	26 28	30 34 35	
						Est Pb+Zn 18-20% Sph >> 64l. Core in broken, Perry good.
	1819 9	1110 10	30 5		1414 10 ±6	
						Grey-green to locally green-grey, med-soft, altered musc + chl phyllite. S <sub>2</sub> surfaces range from light silvery grey, w slight talcose coatings to dull pale green. Chl content increases moving down the unit. Contains local minor stringers + fracture fill of Sph + fine Py. Est % S = 30% dominately Sph. Contact with 4A is sharp, II to S <sub>2</sub> . No obvious faults. 70I → 95.2 $\bar{v}$ broken 3.3' resid. 95.2 → FOH in broken, Perry good.
						<u>FOH</u>
						3" long piece of split 4A4 at 88.0 ft taken for display at McDevide Museum.

ASSAY LOG (SAMPLER'S COPY)

Date Aug 31/88 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
	6.0 119	8.2 127	16597	173	134	14164	mod- weathered
	9.4 121	11.3 137	16598	160	121	141E10	± 1 weathered
	23.2 176	24.0 178	16599	124	127	141C3	± 8 minor ± 5 minor
	25.1 178	25.1 182	16600	128	145	141A14	
	26.4 182	26.4 186	16601	143	141	141A14	
	27.4 186	27.4 189	16602	132	133	141A14	
<del>FOH</del>							

DDH B.B.V-60  
2 8

CURRAGH RESOURCES INC.  
Structural Log

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

Date: AVG 31/88 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			Dip	Direct.	Dip	Direct.	Dip	Direct.	
				9	4							516	Micaceous Foliation
				12	6	PISR						610	" "
				17	4	PISR						719	" "
				15	7	PISR						719	" "
				20	1	PISR						815	" "
				16	6	PISR						815	" "
				23	5	PISR						715	Banding in 4C3
				17	7	PISR						715	" "
				24	5	CISR	310	11810				815	Ribbon banding in 4A4
				25	5	CISR	316	1710				812	" " " "
				18	3	CISR						812	" " " "
				27	1	PISR						615	" " " "
				18	9	PISR						615	" " " "
				29	1	PISR						715	Micaceous Foliation
				19	5	PISR						715	" "
				30	2	PISR						618	" "
				19	9	PISR						618	" "
<del>FOH</del>													

PROJECT \_\_\_\_\_ DRILLHOLE NO. 88V-60 COORDINATES: N \_\_\_\_\_ DATE Aug 31/88  
 LOCATION \_\_\_\_\_ HOLE SIZE \_\_\_\_\_ E \_\_\_\_\_ PAGE     of      
 LOGGER CVR INCLINATION \_\_\_\_\_ ELEVATION \_\_\_\_\_



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

DEPTH (TO)	LENGTH OF RUN	CORE RECOVERY		RQD		HARDNESS	DEGREE OF BREAKAGE		DEGREE OF WEATHERING	ROCK TYPE	BEDDING DIP		BEDDING JOINTS		CROSS JOINTS		COMMENTS
		LENGTH	%	LENGTH	%		CATEGORY	NO.			DEPTH	ANGLE	NO.	FREQ.	NO.	FREQ.	
0				0													No Recovery
21		2.4		0													
27		2.0		0													
32		1.1		0													
37		1.2		0													
42		1.3		0													
47		1.6		0													
49		1.2		0													
52		3.0		0													
57		1.5		0													
62		1.7		0													
67		3.3		0													
71		2.9		0													
76		4.8		0													
81		5.1		2.2													
88		6.1		4.2													
90		2.1		1.2													
91.5		1.8		0													
95		1.7		0													
100		5.1		1.1													

Fig. 1. Typical rock mechanics core log.

F O H

DIAMOND DRILL CORE LOG

Date: Aug. 18/88

Hole Number: 88V-61

Reference Fabric Orientation Diagram:

Project: Vanguarda Summer 88

Location: Vanguarda Deposit

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

Terr. Plane Co-ords.: 2  
6907819.12 N X  
594387.56 E

Model Co-ords  
~~10,344.73~~ N 9599.41 N  
~~10,593.79~~ E 9926.34 E

Grid Co-ords: 25E -2.5

Elevation: 1150.42

All symmetry determinations looking

Total Depth: 48.8 m

NW with S2 dipping

Inclination: -90° (Vertical)

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

Purpose: One reserve definition + met samples

Reason hole Terminated: Drilled into footwall

Logged by: C.V. Reed.

Date(s) Logged: Aug. 18/88

Drilling Contractor: Arctic Diamond Drilling

Size NR CORE From \_\_\_\_\_ To \_\_\_\_\_ Collar Cased and Capped: N

Hole Cemented: N Steel down Hole: N

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

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

Started: \_\_\_\_\_ Completed: \_\_\_\_\_

Code	From		To		Recov.		No.		Unit		Description	
	10	14	16	20	22	24	26	28	30	34		35
	10	0	13	0	7				11		#	Cored w no recovery
				9	4							
	13	0	7	13	1				12		#	Overburden pebbles.
				9	5							0.4' of small rounded to subangular qtz, phyllite, + granitic pebbles. Largest pebble is 3cm long. Local minor mud kill recovered.
	13	11	1	13	18	7			13	14	14	# Weathered + Porous
				11	8							Med-soft, greenish-brown, weathered + locally porous, high grade baritic S. Unit is thinly banded - defined by variations in py + base metal content. Banding is 11 to S2. Contains local calcite in thin parting, bands 11 to S2.
												Est % Pb+Zn 16-20% Unit is extremely fissile.
												70I-32.0 rubble 0.8' rec'd
												32 → 50I rubble 1.9' rec'd
	13	18	7	14	14	0			14	14	10	± Bx A v weathered (4L weathered) (4G4±8) 50:25:25.
				13	4							Mixed unit consisting of top band of 4A0 which is locally brecciated, middle band of extremely weathered 4L and lower band of 4G4.
												4A0 is v broken, black, barren - tends to break into "paper chips. 4A0 from 70I → 42.0, 41.0 → 42.0 is highly fractured + brecciated. Contains 3" thick interval of black mud gauge. Fracture surfaces contain abundant rusty orange patches + powdery white oxidation residue. Est % Pb
												8% Est % Pb+Zn for 4A0 is < 2%.

Code	From	To	Recov.	No.	Unit	Description	
1	10	14	16	20	22 24	26 28	30 34 35
							42.0 → 43.2 highly weathered + fractured 4L? rubble. 4L is soft, noncalcareous, shows abundant rust on fracture & Sz surfaces. Fracture surfaces have white powdery oxidation residue coatings.
							43.2 → EOT - Mod hard, mod weathered, yellow-brown, high grade karstic S <sup>2</sup> . Contains local minor mg, in thin discontinuous streaks aligned // to Sz. Fracture surfaces show patchy rust, weathering coatings. Est Mt Zn 8-10%.
							Entire interval likely a fault breccia - difficult to tell because of poor condition of the core.
							Entire interval is rubble, 5.3' recovered.
	14	14	17	13	5	15	15A16 [369]
							2.2 4
							v broken, mod soft, noncalcareous, ps <sub>2</sub> foliated, black, carbonaceous ph, like Sz surfaces are carbon black. Contains local minor incipient gouge in thin bands // to Sz. Gouge intervals are generally < 2cm thick. - No significant faults
							Contains local minor py in thin fractures. Top 10' of unit contain patchy rust on Sz surfaces. Contains minor calcite in filling local v thin fractures.
	17	13	5	18	15	2	16
							15A6 GOUGE [369] GOUGE
							12 16 0
							Black, flakey, v soft, noncalcareous mud gouge. No orientation possible.
							A MAJOR FAULT!
							3.2' of mud gouge + small SA fragments rec'd

Code	From				To				Recov.	No.	Unit	Description
	10	14	16	20	22	24	26	28				
	1815	2	1818	6						17	141C10	±3 BzA
			27	6								Highly fractured & brecciated, locally pyritic gtzite. Contains angular clasts of massive fine ps ranging up to 8 cm $\phi$ . Fractures are infilled w gtz + calcite. P <sub>1</sub> boundary highly irregular due to abundant fracturing Est % P <sub>1</sub> 25%. Est Pht Zk 2%. Core $\bar{v}$ broken. Berry O.K.
	1818	6	11011	8						18	141L10	GOUGE (5A GOUGE) 70 30.
			811	0								TOI - 97.6 is white flakey, noncalcareous, mud GOUGE. No orientation possible.
												97.6 $\rightarrow$ EOI is dark grey, flakey, slightly carbonaceous mud GOUGE.
												<u>A MAJOR FAULT</u>
												6.9' of gouge recovered.
	11011	8	111610	0						19	151A16	[369]
			418	8								Highly broken, black, noncalcareous, carbonaceous phyllite. Contains local thin pale green chl laminations. Unit is P <sub>52</sub> . Pelleted. Local $\bar{v}$ thin gtz siltstone laminae define lithons. No obvious faults.
												TOI $\rightarrow$ 107.0 4.8' rec'd $\bar{v}$ broken
												107.0 $\rightarrow$ 112.0 4.0' rec'd $\bar{v}$ broken
												112.0 $\rightarrow$ 122.0 rubble 2' rec'd.
												122.0 $\rightarrow$ 126.0 $\bar{v}$ broken 2.1' rec'd.
												126.0 $\rightarrow$ 128.0 - o/B case MISLATCH?

CURRAGH RESOURCES INC.  
 Lithologic Log

Code	From				To				Recov.				No.				Unit	Description
	10	14	16	20	22	24	26	28	30	34	35							
																	128.0 → 132.0	v broken, Recov, 0.5.
																	132.0 → 137.0	v broken, 3.7' rec'd.
																	137.0 → 141.0	2.4' rec'd.
																	141.0 → 150.0	rubble 6.2' rec'd.
																	150.0 → 155.0	rubble 0.8' rec'd.
																	155.0 → 160.0	v broken 3.2' rec'd.
																	Core loss in this interval likely related to highly fractured condition of the rock.	
																	Z FOH	

DDH 88.V-16.1  
2 8

CURRAGH RESOURCES INC.

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

Logged by CR

ASSAY LOG (SAMPLER'S COPY)

Date AUG 18/88 Sampled by \_\_\_\_\_

CODE	FROM		TO		SAMPLE	INTR.	REC (m)	UNIT	DESCRIPTION			
	10	14	16	20						22	26	28
	13	11	13	11	164915	616	315	141614	±# weathered			
	13	11	14	11	164916	513	510	141A10	± 8xA (46 weathered) (464 ± 8)			
									50:25:25			
	18	15	18	15	164917	314	318	141C10	± 3 BxA.			
<del>FOH</del>												



DIAMOND DRILL CORE LOG

Date: Aug 22/88

Hole Number: 88 V-62

Reference Fabric Orientation Diagram:

Project: Vanguarda Summer 88

Location: Vanguarda Deposit

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

Terr. Plane Co-ords.: 6903000.27 N

Model Co-ords  
9723.51 N

594703.92 E

10,059.45 E

Grid Co-ords: 21.0 E +2.0

Elevation: 1155.50

All symmetry determinations looking

Total Depth: 87 ft. 26.5 m

NW with 52 dipping

Inclination: -90° Vertical

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

Purpose: One reserve definition + wet samples

Reason hole Terminated: See One body not intersected.

Logged by: C.V. Reed.

Date(s) Logged: Aug. 22/88

Drilling Contractor: Arctic Diamond Drilling

Hole Cemented: N Steel down Hole: N

Size CORE From To Collar Cased and Capped: N  
NQ 0 87.0'

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

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

Started: \_\_\_\_\_ Completed: \_\_\_\_\_



CURRAGH RESOURCES INC.  
Lithologic Log

Code	From		To		Recov.		No.		Unit		Description
	10	14	16	20	22	24	26	28	30	34	
	10		11.9	0				11		17	CORED WITH NO RECOVERY
			5.8								
	11.9	0	13.2	0				12		17	O/B TILL.
			9.8								10 AB Anvil Batholite granitic boulder fragments. Largest boulder 1' long. Boulders are creamy white & locally, weathered to rusty orange. 19.0-19.4. Black fragment of CAB overburden boulder.
											3' O/B boulder fragments rec'd
	13.2	0	18.7	0					14	16	
			21.5	5							Mod soft, noncalcaneous, pale green-grey, altered chl + musc phyllite. Unit is P52 foliated - local thin qtz rich laminae define microlithons. Sz surfaces range from a dull olive green in talcose coatings near TOI to a medium greenish-grey near FOI. Only local minor py dess in thin qtz-rich laminae. Top 1' of unit show patchy rust - remaining interval is fresh.
											32.0 → 42.0 Rubble 2.4' rec'd - some minor plates, surge rec'd within rubble.
											42.0 → 47.0 v broken, 1.5' rec'd.
											47.0 → 52.0 rubble, 3.9' rec'd - spread out
											52.0 → 53.0 v broken heavy O.K.
											53.0 → 57.1 rubble 1.6' rec'd.
											57.1 → 62.7 v broken 3.0' rec'd.
											62.7 → 70.0 rubble 3.1' rec'd.
											70.0 → FOI v broken; Percy O.K.







DIAMOND DRILL CORE LOG

Date: Sept. 20/88

Hole Number: 88 V-63

Reference Fabric Orientation Diagram:

Project: Vangorda Summer 88

Location: Vangorda Deposit

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

Terr. Plane Co-ords.: 6903 117 .31 N

Model Co-ords

10,000.98 N

594 118 .89 E

9,925.13 E

Grid Co-ords: 12E -2.5

Elevation: 1153.03  
1163.03

All symmetry determinations looking

Total Depth: 302.0 ft.

NW with S2 dipping

Inclination: -90° (Vertical)

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

Purpose: Definition Drilling + Met Samples

Reason hole Terminated: Drilled into footwall.

Logged by: C.V. Reed

Date(s) Logged: Sept. 20/88

Drilling Contractor: Arctic Diamond Drilling

Hole Cemented: N Steel down Hole: N

Size	CORE From	To	Collar Cased and Capped: <u>N</u>
<u>NW</u>	<u>0</u>	<u>150.0</u> ft.	
<u>NQ</u>	<u>150.0</u>	<u>302.0</u> ft.	

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

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

Started: Aug 17/88 Completed: Aug 18/88



CURRAGH RESOURCES INC.  
Lithologic Log

Code	From		To		Recov.		No.		Unit		Description
	10	14	16	20	22	24	26	28	30	34	
	10		515	4							# TRILONED NO RECOVERY
			16	9							
	1515	4	712	7							# 10 AB 0/B boulder fragments
			22	2							Variably sized, rusted cream-white weathered 10 AB
											Anvil butt boulder fragments largest boulder 1.2' long.
											Locally, granitic boulders are highly fissile due to extreme
											weathering. Only minor local amounts of mudfill recovered.
											TOI - 58.0 2.5' 10AB 0/B fragments rec'd.
											58.0 - 62.0 4.2' " " " "
											62.0 - 67.0 4.8' " " " "
											67.0 - EOI 3.1' " " " "
	1712	7	1812	1							131610 weathered.
			25	0							Medium grey, weathered locally to a dull grey-rust-tan,
											PS <sub>2</sub> foliated micaceous musc. >> chl phyllite. Where fresh,
											S <sub>2</sub> surfaces are medium shiny grey. S <sub>2</sub> surfaces locally
											show abundant patchy rust coatings.
											TOI - 77.0 com v broken, 3.7' rec'd Local minor
											interval of incipient gneiss 73.4 to 73.6. Gneiss // to S <sub>2</sub> .
											77.0 - EOI rubble, only 0.9' rec'd
	1812	1	11318	2							± 4 minor
			42	1							Mod-soft, dark grey to locally black, locally CS <sub>2</sub>
											foliated, muscovite + qtz minor + chl minor phyllite.
											Carbon content increases moving down the hole. S <sub>2</sub> surfaces
											are shiny medium grey at TOI gradually becoming

DDH 8,8.V.-6,3.  
2 8

## CURRAGH RESOURCES INC.

## Lithologic Log

Page 04 or \_\_\_\_\_Date: Sept 20/08 Logged By: CVR

Code	From		To		Recov.		No.		Unit	Description	
	10	14	16	20	22	24	26	28			30
											carbon black near FOI. Unit is micaceous. Local minor calcite in fills thin fractures. Contains usual amount of thin foliaceous pyroclastic qtz veins. Top 15' of unit shows local patchy rust on S <sub>2</sub> surfaces. No Significant Faults. Bottom 5' of unit becomes lighter - less carbonaceous & more chloritic against lower massive sulphide. Bottom contact against sulphides is slightly brecciated.
											70E-87.0 $\bar{v}$ broken 2.4' red
											87.0-91.0 $\bar{v}$ broken 2.1' red
											91.0-96.0 rubble + "poker chippy" 2.0' red
											96.0-99.5 $\bar{v}$ broken, very o.k.
											99.5-101.0 rubble 1.8' red
											101.0-104.0 rubble 1.6' red
											104.0-107.0 $\bar{v}$ broken 2.6' red
											107.0-110.0 $\bar{v}$ broken 3.1' red
											110.0-112.0 $\bar{v}$ broken 1.2' red
											112.0-FOI $\bar{v}$ broken 1.8' core loss.
	113B2		1129B				15		41D4143		$\pm$ 8 trace $\pm$ 7 trace $\pm$ 9 trace. Bx A
			4 <sup>2</sup> 6								Extremely Sph rich, $\bar{v}$ hard, light red-brown micaceous py. qtzite breccia. Sulphides have been extensively re-mobilized into abundant fractures giving the core a "sulphide flooded" texture. Breccia, likely a result of brittle failure due to tight folding. Clasts are qtzite ranging in size from 1mm to 8cm. Matrix is dominantly massive Sph + lesser gal + diss fine py.

Code	From	To	Recov.	No.	Unit	Description
1	10 14 16	20 22 24 26 28 30 34 35				
						Contains local traces of Cpx, infilling fractures. Near TOI unit contains local small blobs of magnetite.
						Est Ph + Zn 18-20% Sph > Gal. No visible weathering. Core is intact.
	11319 8	11415 3		16	4E14±16	# (3B#) (4A4) (4D4) 80:15:5:Trace.
		443				Dominant unit is a coarse, yellow-brown, thinly banded, med hard, high grade massive pyritic S <sup>2</sup> . Banding is locally highly deformed due to post S <sub>2</sub> folding? Unit contains local irregular shaped clasts of medium green, hard, slightly carbonaceous qtzite. Clasts occur from 142.4 - 143.5
						range in size up to 8cm long - 2cm thick with long qtz rough, aligned parallel to banding in 4E. Banding in 4E defined by local concentrations of sph + gal + lesser ka. Banding is generally c 2cm thick.
						Within 4E4 from 141 to 141.5 and from 141.7 to 142.2 are thin bands of dark green-grey & white-grey stained chl phyllite. Thin whitish bands contain abundant calcite. S <sub>2</sub> surfaces are dull dark green. Unit is med soft - cc + qtz bands define S <sub>2</sub> . Margins of chl phyllite are // to dominant comp banding in 4E4.
						141.5 - 141.7 is thin foliated band of sph rich qtzite. Margins are // to S <sub>2</sub> .
						141.7 - 145.4. Highly fractured, V hard, moderately carbonaceous qtzite. Vague ribbon banding defined by qtz + fine py bands. Abundant thin fractures infilled w

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Code	From				To				Recov.				No.				Unit	Description
	10	14	16	20	22	24	26	28	30	34	35	1	2	3	4			
																	Fine Py. Margins of 4A band are sharp - roughly 1/2 to composition! banding in 4E Est Pb+Zn for entire interval is 15-16% Core is slightly broken. Recovery is good	
	17453		11512											17	14L10	+2+4	Mod soft, uncalcaneous, highly fractured, locally S <sub>2</sub> foliated altered musc > chl phylite. Overall unit is a buff grey- white with local green aspect, S <sub>2</sub> surfaces are shiny steel-grey in local dull green chl clots. Thin fractures are filled in dominant py + lesser sph. TOZ - 146.7 Rubble, very O.K. 146.7 - 149.0 Mod broken, very O.K. 149.0 - FOZ Rubble, very O.K.	
			11512											18	41A14	+7 minor	Dark grey to black, thin, ribbon banded, in hand, moderately carbonaceous quartzite. Banding generally 2-3 cm thick defined by dominant py + qtz + lesser sph + gal. minor Po. Unit is locally S <sub>2</sub> foliated. S <sub>2</sub> surfaces are dull carbon black + only slightly mottled fingers. Est Pb+Zn 6-8% No faults Core is slightly broken, very good. Carbon content decrease moving down the interval. Assay = 3.27 Pb+Zn	

Code	From		To		Recov.	No.	Unit	Description		
	10	14	16	20					22	24
	11516	0	11612	5		19	1414	± 7 minor. (4E8 ± 1 ± 4) (4D0) 60:35:5		
			495					Dominant unit is same as higher unit # 8. Est Ptz 6-7%. TOI = 158.1 is thinly bedded, locally magnetic, massive pyritic S <sub>2</sub> . Magnetite occurs in local discontinuous thin bands aligned // to S <sub>2</sub> . Banding is defined by local concentrations of sph + gal. Sph + gal bands less abundant moving down the 4E interval. Est Ptz 4 to 6% (for 4E interval). Bottom 6" ledge of 4E band is highly fractured & hard quartz. Red sph locally in little thin fractures. Fine Py dominantly in fills thin fractures in quartz. Core is broken, recs good.		
	11612	5	11810	0		110	13610	Medium grey, mild soft, P <sub>S2</sub> foliated, micaceous musc >> chl phyllite. S <sub>2</sub> surfaces shiny steel grey. Contains local minor pale green chl developed in <sup>thin</sup> laminations // to S <sub>2</sub> . Top contact is sharp // to S <sub>2</sub> . Bottom contact is slightly brecciated. TOI = 166.4 in broken, recs, c.k. 166.4 = EOT in broken, recs good.		
	11810	0	11947	7		111	1414	± 7 minor. Looks similar to units # 8 + # 9. Ribbon banding is better developed, sph is more abundant. Banding is generally < 1cm thick & defines S <sub>2</sub> . S <sub>2</sub> surfaces		

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Code	From	To	Recov.	No.	Unit	Description
1	10	14	16	20	22 24 26 28 30 34 35	
						are dull carbon black. Banding is ~ 30% of unit volume. Est % P <sub>2</sub> 18-20% Est Pb+Zn 8-10% Sol. → Gal. No faults.
						Core slightly broken Recovery GOOD.
	11947	12106	6	112	131610	6 ± 4. (1000) 92:8
		6.7	2			Moderately soft, medium grey to locally light grey-green, noncalcareous, P <sub>2</sub> foliated musc + chl phyllite. Local chl compositional bands may define S <sub>1</sub> . Later foliation - S <sub>2</sub> - X cuts compositional banding, + is steeper. Unit is locally slightly altered - defined by absence of carbon + more abundant pale green chl. S <sub>2</sub> surfaces range from a light steel grey to a medium shiny grey. S <sub>2</sub> surfaces locally have "talrose" white powder coatings. Contains local minor P <sub>2</sub> + lesser P <sub>0</sub> + traces of sph in thin bands // to S <sub>2</sub> . Est % S = 3%
						Contains 3 taliaferri pyroclastic qtz veins - largest vein = 1.1', smallest 0.6'
						TOI - 195.4 rubble - end run Recovery GOOD
	12106	12109	9	113	14114	7 7 minor
		7.0	4			Black, thin, ribbon banded, is hard, carbonaceous gte. S <sub>2</sub> surfaces are dull carbon black. Ribbon banding defined by dominant P <sub>2</sub> , lesser Sph, + minor P <sub>0</sub> . At 227.2 banding defines phase 2 fold.
						Est % P <sub>2</sub> ~ 15-20% Est Pb+Zn 4-6%

Code	From		To		Recov.		No.		Unit		Description
	10	14	16	20	22	24	26	28	30	34	
											Bottom contact w 36 is slightly brecciated + highly fractured. May indicate fault. Broken surfaces show local rusty yellow weathering coatings. Core is broken. Recovery is GOOD.
	12130	9	12165	2				114	14L10	±6 ±2 minor ±4 minor ±7 minor	
			180	8							Mod soft, noncalcareous, locally, CS <sub>2</sub> laminated, light grey green to locally light green-grey, altered musc + chl phyllite. S <sub>2</sub> surfaces range from light clotted dull grey to medium shiny grey. Local thin qtz - silstone laminae define lithons. Commonly, qtz rich laminae contain fine dark py + lesser DO + traces of sph. These sulphides also occur in traces infilling thin local fractures. No obvious faults. Est % S = 2-3% dominantly Py.
											705-227.0 v broken, 4.5' rec'd.
											227.0-245.0 v broken, recy, OK.
											245.0-257.4 m broken, recy, good.
											257.4-259.7 Core missing - !!! Likely stolen by an ignorant tourist!!
											259.7-265.2 m broken, recy, good.
	12165	2	12171	5				115	14A14	±7' (420 ± 2 minor ± 4 minor ± 7 minor) 90:10	
			182	6							Dominant unit is v hard, black, ribbon banded, carbonaceous gteite. Ribbon banding defined by dominant fine py + lesser sph. Banding is 30-40% of unit volume. Est % Py 25% Est % Pb + Zn 8-10%.

Code	From		To		Recov.		No.		Unit		Description
	10	14	16	20	22	24	26	28	30	34	
											Unit is locally (S <sub>2</sub> ) foliated - defined by thin black carbonaceous
											folia. 265.4 → 266.4 medium grey, P <sub>52</sub> foliated, non-calcareous
											massive + chl phyllite. Contains local thin bands + stringers of
											dominate P <sub>1</sub> , lesser P <sub>2</sub> + traces of sph. S <sub>2</sub> surfaces are
											a clotted medium dull grey + dull pale green. YL is
											moderately soft. Margins of band are    to compositional
											banding.
											(Core is in broken - recov good - No faults.
	121711	5	121715	5			116		131817		(4E48 ± 1) 60:40.
			18140								TOI - 273.2 is thinly banded, non-calcareous, moderately hard,
											magmatic massive pyritic S <sub>1</sub> . Contains local angular small
											white gtz "clasts" which may be highly fractured +
											displaced gtz veinlets. Mag occurs locally in small specks
											in trails aligned    to S <sub>2</sub> . Banding generally < 1/2 cm
											thick - defined by local concentrations of sph + gal - aligned
											to S <sub>2</sub> .
											Est % PbZn 6-7%
											Remaining interval is medium dull olive green + white
											grey striped chloritic phyllite. White-grey striping defined
											by most coarse stibine gtz + calcite. Bands are generally
											< 1 cm thick - one 5" thick band against lower
											4E48. Bands may be secondary thin folia form veinlets.
											Margins of 3B in sulphides are    to compositional
											banding.
											(Core in broken. Recov, GOOD.

Code	From		To		Recov.		No.		Unit	Description
	10	14	16	20	22	24	26	28		
	1217	15	5	1217	19	3		117	14A14	7 + 9 trace.
				85	1					$\bar{v}$ hard, medium grey-black, ribbon <sup>S</sup> banded carbonaceous gtzite.
										Banding locally up to 5cm thick + defines S <sub>2</sub> . S <sub>2</sub> surfaces are carbon black. Banding is 50% of unit volume. Est % Py 20%, Est % Po 8%, Est % Pb+Zn 10-12%. Top 5" against 3B absent of carb Galva. Unit is locally highly fractured w/ infilling of fine py, lesser po, lesser sph.
										Splushy cpy occurs in traces infilling local fine fractures. No faults. Core is slightly broken. Heavy Good
	1217	19	3	1218	18	4		118	14E11	± 4 ± 8 1 ± # minor + § minor + 9 trace (3B#) trace.
				87	9					Thinly banded, $\bar{v}$ hard, locally siliceous, calcareous, dolomitic, + magnetic massive py, S <sup>=</sup> . Qtz occurs locally in small subrounded fine xtaline clasts and interstitial to py in thin to locally thick bands defining S <sub>2</sub> . Locally associated $\bar{v}$ massive py are thin fracture streaks containing diss <sup>-</sup> calcite. Dol occurs locally in highly fractured angular to locally subrounded, light tan weathered clasts ranging up to 4cm $\phi$ . Mag occurs locally in thin discontinuous bands // to S <sub>2</sub> . Contains local minor concentrations of sph + gal in thin bands defining S <sub>2</sub> . Local traces of "splushy" cpy in thin fractures.
										285.1 to 285.5 is dull pale green-grey, mod soft, calcareous musc + chl phyllite. Contains thin white grey gtz + cc laminations which locally define a phase 2 fold nose. Margins of phyllite band are // to

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Code	From	To	Recov.	No.	Unit	Description
	10 14 16 20	22 24 26 28 30 34 35				
						compositional banding Est Pb+Zn for entire interval 4-6% Est Zn 0.2-15-20% Core 5 broken, recovery is good.
	1218184	131020		119	15A1619	(366) (4E8 ± 1 ± 4) 95:5:Trace. Dominant unit is a black, med-soft to hard, P <sub>S2</sub> laminated, noncalcareous, carbonaceous, siliceous phyllite. S <sub>2</sub> surfaces are carbon black + core breaks easily along this foliation. Contains thin <sup>minor</sup> bands, generally 6-2mm thick // to S <sub>2</sub> defined by gtz + minor clastic py + minor clastic sph. These bands are only about 5% of unit volume in total. P <sub>0</sub> locally infills fine fractures. Est % S <sup>+</sup> (dominantly P <sub>3</sub> ) = 5-6%. Top contact w 4E is // to compositional banding. Contact surface is slightly "blackened" at contact 290 - 290.5 is thin, banded massive py S <sup>+</sup> . Same as unit #18. Top margin // to comp banding. Bottom margin is slightly brecciated, noncalcareous 290.5 - 291.7 is medium grey, highly fractured massive chl phyllite. Fractures infilled w dominant py + lesser P <sub>0</sub> . Bottom margin of phyllite band // to comp banding 291 - 291 = broken + "poker chippy" recovery O.K. 291 - 293 = broken, recovery good. 293 - 295 = broken along S <sub>2</sub> , recovery GOOD.

290-295

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						
	42 1	42 8	11618135	11 6	12 7	4A1413	±8 trace ±7 trace BcA.
	11318 2	11319 8					
	43 4	43 5	11618136	12 7	12 8	4E1411	±6 (3B#) 80:20
	11319 8	11412 5					
	44 3	44 3	11618137	12 8	13 3	4E1411	±6 (4A4) 90:10
	11412 5	11415 3					
	46 1	47 5	11618138	14 8	15 2	4A1011	±7 minor
	11511 2	11516 0					
	48 2	48 1	11618139	12 1	12 4	4E1811	±1 ±4 (400) 90:10
	11516 0	11518 1					
	49 5	49 5	11618140	14 4	15 3	4A1011	±7 minor
	11518 1	11612 5					
	54 8	56 3	11618141	14 7	14 3	4A1011	±7
	11810 8	11814 7					
	57 7	57 4	11618142	14 7	15 3	4A1411	±7
	11814 7	11819 4					
	59 3	59 7	11618143	15 3	14 8	4A1411	±7
	11819 4	11914 7					
	67 2	68 4	11618144	12 8	13 9	4A1411	±7
	121210 6	12123 4					
	69 2	69 0	11618145	13 6	14 3	4A1411	±7
	12123 4	12127 0					
	70 4	70 9	11618146	13 9	13 8	4A1011	±7
	12127 0	12310 9					
	80 8	82 8	11618147	16 3	14 8	4A1011	±7
	121615 2	12171 5					
	83 3	83 2	11618148	11 7	11 7	4E10131	±1
	12171 5	12173 2					
	84 4	84 5	11618149	12 3	13 1	3B#	
	12172 2	12175 5					
	85 1	85 3	11618150	13 8	14 6	4A14171	±9 trace
	12175 5	12179 3					
	86 6	86 2	11618151	14 9	15 0	4E1111	±8
	12179 3	12181 4					
	87 4	87 4	11618152	14 2	14 7	4E1111	±8
	12181 4	12188 0					
	89 0	89 0	11618153	13 6	14 9	5A161119	→ [4A0]
	12188 4	12192 0					
	90 5	90 5	11618154	15 0	15 0	5A161119	→ [4A0]
	12192 0	12197 0					
	92 1	92 0	11618155	15 0	15 5	5A161119	→ [4A0]
	12197 0	13101 2					



PROJECT 88V-63 ORIGINALE NO. \_\_\_\_\_ COORDINATES: N \_\_\_\_\_ DATE \_\_\_\_\_  
 LOCATION \_\_\_\_\_ HOLE SIZE \_\_\_\_\_ E \_\_\_\_\_ PAGE     of      
 LOGGED \_\_\_\_\_ INCLINATION \_\_\_\_\_ ELEVATION \_\_\_\_\_



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

**GEOTECHNICAL CORE LOG**

DEPTH (TO)	LENGTH OF RUN	CORE RECOVERY		RQD		SPHERICITY	DEGREE OF BREAKAGE		DEGREE OF WEATHERING	ROCK TYPE	SOUNDING DEP		SOUNDING JOINTS		CROSS JOINTS		COMMENTS
		LENGTH	%	LENGTH	%		CATEGORY	NO.			DEPTH	ANGLE	NO.	FREQ.	NO.	FREQ.	
58	2.6									175	Rec	RQD					
62	4.4									180							
67	4.6			2.0						186							
72	2.5			.9						191							
77	4.8									195							
82	.9									200							
87	2.6									205							
91	3.0									210							
96	2.2									213							
100	4.8									218							
104	2.8									222							
107	2.9									227							
110	3.4									232							
112	1.8									237							
117	3.9									242							
121	4.0									245							
126	5.7									250							
132	5.8			.4						255							
136	4.3									260							
141	5.3			3.5						265							
146	5.5			4.2						271							
151	5.7			1.3						276							
156	5.3			.8						280							
161	5.5			3.1						285							
166	5.7			1.9						289							
169	3.3			1.1						292							

Depth Rec RQD  
 297 4.9  
 302 4.8 .4  
 EON

Fig. 1. Typical rock mechanics core log.

const.

x 292