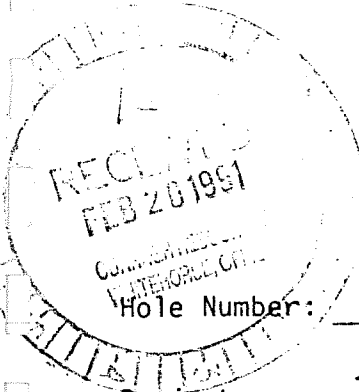


GALE 31

004912

DRILLHOLE LOGS 90DY10 to 90DY14
and 90DY0B1 to 90DY0B3

DRILLHOLE LOCATION PLAN



CURRAGH RESOURCES INC.

Page 1 of 3

DIAMOND DRILL CORE LOG

Date: _____

Hole Number: 90-0B-01

Reference Fabric Orientation Diagram: _____

Project: DY PROPERTY

Location: ANVIL DISTRICT, FARO, YK.

Claim: _____

Terr. Plane Co-ords.: UTM - 899384.00 N N

UTM - 597630.30 E E

Grid Co-ords: _____

Elevation: 839.90 m

All symmetry determinations looking

Total Depth: 9.5 m

_____ with _____ dipping

Inclination: VERTICAL

_____ with dip azimuth _____.

Purpose: OVER BURDEN DETERMINATION

Reason hole Terminated: HIT BEDROCK

Logged by: J. ZBEETNOFF

Date(s) Logged: _____

Drilling Contractor: E. CARON DIAMOND DRILLING

Hole Cemented: NO Steel down Hole: NO

Size	CORE From	To
CASING	0.0	4.6
HC	4.6	9.4

Collar Cased and Capped: NO

Assay Lab: _____

Certificate No's: _____

Started: _____ Completed: _____

DIAMOND DRILL CORE LOG

Date: _____

Hole Number: 90-OB-02

Reference Fabric Orientation Diagram: _____

Project: DY-PROPERTY

Location: ANVIL DISTRICT FARO YK.

Claim: _____

Terr. Plane Co-ords.: UTM 899385.00 N N

UTM 597639.00 E E

Grid Co-ords: _____

Elevation: 839.7 m

All symmetry determinations looking

Total Depth: 12.5 m

_____ with _____ dipping

Inclination: VERTICAL

_____ with dip azimuth _____

Purpose: OVERBURDEN DETERMINATION

Reason hole Terminated: HIT BEDROCK

Logged by: J. ZBEETNOFF

Date(s) Logged: _____

Drilling Contractor: E. CARON DIAMOND DRILLING

Hole Cemented: NO Steel down Hole: NO

Size	CORE From	To
4.0 CASING	0.0	8.2
HQ	8.2	12.5

Collar Cased and Capped: NO

Assay Lab: _____

Certificate No's: _____

Started: _____ Completed: _____

DIAMOND DRILL CORE LOG

Date: _____

Hole Number: 90-OB-03

Reference Fabric Orientation Diagram: _____

Project: DY PROPERTY

Location: ANVIL DISTRICT FARO YK

Claim: _____

Terr. Plane Co-ords.: UTM 899382.8 N N

UTM 597622.1 E E

Grid Co-ords: _____

Elevation: 840.1 m

All symmetry determinations looking

Total Depth: 9.5 m

_____ with _____ dipping

Inclination: VERTICAL

_____ with dip azimuth _____.

Purpose: OVERBURDEN DETERMINATION

Reason hole Terminated: HIT BEDROCK

Logged by: J. ZBEETNOFF

Date(s) Logged: _____

Drilling Contractor: E. CARON DIAMOND DRILLING

Hole Cemented: NO Steel down Hole: NO

Size	CORE From	To
Casing	0.0	6.4
HQ	6.4	9.4

Collar Cased and Capped: No

Assay Lab: _____

Certificate No's: _____

Started: _____ Completed: _____

DIAMOND DRILL CORE LOG

Date: _____

Hole Number: 90-OB-04

Reference Fabric Orientation Diagram: _____

Project: DY PROPERTY

Location: ANVIL DISTRICT FARO YK.

Claim: _____

Terr. Plane Co-ords.: UTM 899370.2 N N

UTM 597628.6 E E

Grid Co-ords: _____

Elevation: 839.2 m

All symmetry determinations looking

Total Depth: 11.0 m

_____ with _____ dipping

Inclination: VERTICAL

_____ with dip azimuth _____.

Purpose: OVERBURDEN DETERMINATION

Reason hole Terminated: HIT BED ROCK

Logged by: J. ZBEETNOFF

Date(s) Logged: _____

Drilling Contractor: E. CARON DIAMOND DRILLING

Hole Cemented: NO Steel down Hole: NO

Size	CORE From	To	Collar Cased and Capped:
1.0	0.0 m	6.4 m	_____
HQ	6.4	11.0	_____

Assay Lab: _____

Certificate No's: _____

Started: _____ Completed: _____

DIAMOND DRILL CORE LOG

Date: _____

Hole Number: 90-OB-05

Reference Fabric Orientation Diagram: _____

Project: DY PROPERTY

Location: ANVIL DISTRICT FARO, YK.

Claim: _____

Terr. Plane Co-ords.: UTM 899342.0 N N

UTM 597625.8 E E

Grid Co-ords: _____

Elevation: 831.4 m

All symmetry determinations looking

Total Depth: 12.5 m

_____ with _____ dipping

Inclination: VERTICAL

_____ with dip azimuth _____.

Purpose: OVERBURDEN DETERMINATION

Reason hole Terminated: HIT BEDROCK

Logged by: J. ZBEETNOFF

Date(s) Logged: _____

Drilling Contractor: E. CARON DIAMOND DRILLING

Hole Cemented: NO Steel down Hole: NO

Size	CORE From	To	Collar Cased and Capped:
CR	0.0m	10.4m	<u>NO</u>
HQ	10.4	12.5m	

Assay Lab: _____

Certificate No's: _____

Started: _____ Completed: _____

DIAMOND DRILL CORE LOG

Date: _____

Hole Number: 90-03-06

Reference Fabric Orientation Diagram: _____

Project: DY PROPERTY

Location: ANVIL DISTRICT FARO YK.

Claim: _____

Terr. Plane Co-ords.: UTM 899339.40 N N

UTM 597631.50 E E

Grid Co-ords: _____

Elevation: 831.10 m

All symmetry determinations looking

Total Depth: 13.9 m

_____ with _____ dipping

Inclination: VERTICAL

_____ with dip azimuth _____

Purpose: OVERBURDEN DETERMINATION

Reason hole Terminated: HIT BED ROCK

Logged by: J. ZBEETNOFF

Date(s) Logged: _____

Drilling Contractor: E. CARON DIAMOND DRILLING

Hole Cemented: No Steel down Hole: No

Size	CORE	
CASING	From	To
<u>HQ</u>	<u>0.0</u>	<u>10.1</u>
	<u>10.1</u>	<u>13.9</u>

Collar Cased and Capped: No

Assay Lab: _____

Certificate No's: _____

Started: _____ Completed: _____

DIAMOND DRILL CORE LOG

Date: _____

Hole Number: 90-OB-07

Reference Fabric Orientation Diagram: _____

Project: DY PROPERTY

Location: ANVIL DISTRICT FARO YK.

Claim: _____

Terr. Plane Co-ords.: UTM 899344.80 N N

UTM 597622.50 E E

Grid Co-ords: _____

Elevation: 831.40 m

All symmetry determinations looking

Total Depth: 15.50 m

_____ with _____ dipping

Inclination: VERTICAL

_____ with dip azimuth _____.

Purpose: OVERBURDEN DETERMINATION

Reason hole Terminated: HIT BEDROCK

Logged by: J. ZBEETNOFF

Date(s) Logged: _____

Drilling Contractor: E. CARON DIAMOND DRILLING

Hole Cemented: NO Steel down Hole: NO

Size	CORE From	To
Basin	0.0	10.4
HQ	10.4	15.6

Collar Cased and Capped: No

Assay Lab: _____

Certificate No's: _____

Started: _____ Completed: _____

DIAMOND DRILL CORE LOG

Date: _____

Hole Number: 90-03-08

Reference Fabric Orientation Diagram: _____

Project: DY PROPERTY

Location: ANVIL DISTRICT FARO YK.

Claim: _____

Terr. Plane Co-ords.: UTM 899419.00 N N

UTM 597635.00 E E

Grid Co-ords: _____

Elevation: 847.40 m

All symmetry determinations looking

Total Depth: 7.30 m

_____ with _____ dipping

Inclination: VERTICAL

_____ with dip azimuth _____.

Purpose: OVERBURDEN DETERMINATION

Reason hole Terminated: HIT BEDROCK

Logged by: J. ZBEETNOFF

Date(s) Logged: _____

Drilling Contractor: E. CARON DIAMOND DRILLING

Hole Cemented: NO Steel down Hole: NO

Size Casing	CORE From	To
HQ	0.0	4.9
HQ	4.9	7.3

Collar Cased and Capped: NO

Assay Lab: _____

Certificate No's: _____

Started: _____ Completed: _____

DIAMOND DRILL CORE LOG

Date: _____

Hole Number: 90DY-10

Reference Fabric Orientation Diagram:

Project: DX DECLINE

Location: Dy

Claim: _____

Terr. Plane Co-ords.: 6899446.9 N

597 635.6 E

Grid Co-ords: _____

Elevation: 855.8 m lev

All symmetry determinations looking

Total Depth: 51.8m

_____ with _____ dipping

Inclination: -90° @ collar

_____ with dip azimuth _____.

Purpose: TEST ROCK QUALITY ALONG DECLINE

Reason hole Terminated: ADEQUATE DEPTH REACHED

Logged by: L.C.P.

Date(s) Logged: _____

Drilling Contractor: E. CARON DD

Size	CORE From	To	Collar Cased and Capped: <u>Ng</u>
<u>Casey</u>	<u>0.0</u>	<u>6.4</u>	
<u>NG</u>	<u>6.4</u>	<u>51.8</u>	

Hole Cemented: No

Steel down hole: No

Started: _____ Completed: _____

DDH 90AY-10
2 8

Diamond Drill Core Log

Date: _____ Logged By: _____

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

Code	Drillhole		Depth		Zenith Angle		True Azimuth		Comments		
	1	2	8	10	14	22	26	28		32	34
R										A T C O L L A R	
R											
R											
R											
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Code	Drillhole		Comments, Errant Remarks, Snivellings and / or Lewd Suggestions									
	1	2	8	10								56

Code	From	To	Recov.	No.	Unit	Description					
1	10	16	20	22	24	26	28	30	34	35	
L	10	16		11	1*1	TILL	Dominantly boulders of 10AB biotite-hornblende granite with white K-feldspar phenocrysts. Minor pale silvery gray, calcareous phyllite. Recovery about 15% - presumably till mud washed away				
L	16	21		12	51B01	82 (5D0) MINOR	Soft, CS2-foliated, calcareous, pale gray phyllite. Well developed microlithic texture with thin quartz-calcite siliceous bands/laminar. S2 surfaces are silvery gray, locally with slightly greenish tinge. Core becomes slightly darker gray as go lower DDH. S2 surfaces in this case pale steel gray. Contains minor thin interbeds up to 5cm thick of pale olive green, P52-foliated, calcareous phyllite. Core moderately broken w/ good recovery. S2 surfaces generally fresh. Broken fracture surfaces locally have thin brown iron oxide staining. No faults. HQ core to 9.1m. then NA for rest of DDH				
	21	23		13	51D101	(5F0)(5B20) 90:05:05	Dominantly a soft, P52-foliated, pale olive chlorite-muscovite, calcareous phyllite. S2 surfaces are silvery olive. Contains thin qtz-calcite veins parallel S2 as well as diffuse calcite bands. Interbeds of micaceous, thinly banded, olive green calcareous, muscovite-chlorite phyllite (5F) and medium dark gray, calcareous, thinly banded, slightly calcareous phyllite (5B2). S2 surfaces for 5F are silvery olive - S2 surfaces for 5B2 are steel gray. Marginal contacts with 5D sharp. Contacts between 5F and 5B transitional. Core med broken with good recovery locally minor iron oxide surface coatings on fracture surfaces. No faults.				

Lithologic Log

Date: Dec 11/96

Logged By: LCP

metres

Code	From		To		Recov.		No.		Unit		Description
	10	14	16	20	22	24	26	28	30	34	
	12	13	13	13					14	51B10121	<p>Soft, calcareous to very calcareous, CS2-foliated, medium-dark grey phyllite. S2 surfaces are silvery grey to silvery steel grey. Microlithons defined by calcareous gross siltstone bands. Contains minor quartz-calcite veinlets which are locally filled into 22 grids. At 31.7 have 40cm coarse quartz-siderite veinlets partly brecciated and brecciated.</p> <p>Core med. broken with good recovery. S2 surfaces mainly fresh. Open fractures typically have thin orange-brown iron oxide staining.</p>
	13	13	14	13					15	51C161	<p>& @ (SFL) minor</p> <p>Soft, medium to dark green, noncalcareous, thickly banded chloritic phyllite. S2 surfaces are irregular dark green. Interval crudely banded with 1cm - 30cm intervals containing 1mm subhedral pale cream ankerite (?) phenocrysts. Represents a relict igneous texture. Locally contains 20-50cm intervals of coarse white quartz-white ankerite veins.</p> <p>TOI - 34.7 consists of homogeneous, soft, pale green chlorite-muscovite phyllite. Contains 1cm subhedral pyrite grains. S2 surfaces are silvery cream. Thin interval is locally finely laminated. Probably mixture of SD and SF.</p> <p>Core moderately broken. S2 surfaces and fracture surfaces have thin irregular brown iron oxide staining. No faults.</p>
	14	13	14	15					16	51F161	<p>Soft, pale creamy green, poorly laminated, noncalcareous muscovite-chlorite phyllite. S2 surfaces are silvery cream. Calcite occurs in thin scattering veinlets. Contains thick coarse quartz-ankerite veins. Poorly laminated, micaceous. S2 surfaces suggest unit is meta-sediment. Lower contact gradational. Core med. broken. No faults. Recovery good.</p>

Code	From		To		Recov.		No.		Unit	Description	
	10	14	16	20	22	24	26	28	30		
1		14	16	20	22	24	26	28	30	34	35
		14.5		15.1				17	51B12101		
											<p>Medium gray to dark gray, slightly calcareous to calcareous, soft, C52-foliated phyllitic. Sd surfaces are silvery gray to starchy gray. Microlithons defined by quartzose siltstone bands containing minor calcite. Isolated euhedral pyrite porphyroblasts.</p> <p>Core moderately broken. Recovery good. No faults.</p> <p>Note of mistake @ 48.8 About 0.5m core missing</p> <p>EOH = 51.8 metres</p>

PROJECT Dy
 LOCATION _____
 LOGGER _____

DRILLHOLE NO. 90Dy-10
 HOLE SIZE Ha/Na
 INCLINATION _____

COORDINATES: N _____
 E _____
 ELEVATION _____

DATE 11 Dec 1920
 PAGE of



PITEAU & ASSOCIATES
 GEOTECHNICAL CONSULTANTS
 VANCOUVER CALGARY

GEOTECHNICAL CORE LOG

DEPTH (TO)	LENGTH OF RUN	CORE RECOVERY		ROD		HARDNESS	DEGREE OF BREAKAGE		DEGREE OF WEATHERING	ROCK TYPE	BEDDING DIP		BEDDING JOINTS		CROSS JOINTS		COMMENTS
		LENGTH	%	LENGTH	%		CATEGORY	NO.			DEPTH	ANGLE	NO.	FREQ.	NO.	FREQ.	
3.0	3.0	0.4		0.6				9	E								
6.4	3.4	0.5		0.1				9	↙								HA over burden
7.8	1.4	1.2		0.0				6	↘								HA overburden
9.1	1.3	1.4		0.0				7	↘						3		HA
															2		HA
11.0	1.9	0.9		0.0				6	E								
14.0	3.0	3.0		0.3				7	↙						0		HA
16.9	2.9	2.6		0.0				7	↙						3		
18.3	1.4	1.4		0.0				7	↙						4		
20.1	1.8	1.1		0.0				7	↙						3		
22.3	2.2	2.1		0.3				7	↙						2		
23.2	0.9	1.0		0.1				9	↙						1		
24.1	0.9	1.1		0.0				7	↙						0		
26.8	2.7	1.5		0.3				7	↙						4		
29.3	2.5	2.2		0.3				7	↙						2		
31.7	2.4	2.9		0.6				9	↙						0		
34.4	2.7	1.9		0.2				9	↙						5		
36.6	2.2	2.2		0.8				9	↙						3		
38.4	1.8	1.8		0.6				9	↙						2		
40.8	2.4	2.7		1.0				9	↙						3		
43.9	3.1	3.1		1.1				9	↙						7		
45.7	1.8	1.2		0.0				9	↙						3		
48.8	3.1	0.9		0.2				9	↙						2		
50.3	1.5	1.6		0.5				9	↙						1		
51.8	1.5	1.3		0.0				7	↘						1		
															2		

E₀₄ = 51.8

Fig. 1. Typical rock mechanics core log.

DIAMOND DRILL CORE LOG

Date: Jan. 10/91

Hole Number: 90DY-11

Reference Fabric Orientation Diagram:

Project: DY DECLINE

Location: DY COLLAR

Claim:

Terr. Plane Co-ords.: 6899473.1 N

597638.3 E

Grid Co-ords:

Elevation: 860.0

All symmetry determinations looking

Total Depth: 55.2m

with dipping

Inclination: -90°

with dip azimuth

Purpose: TEST ROCK QUALITY ALONG TRACE OF DECLINE

Reason hole Terminated: REACHED REQUIRED DEPTH

Logged by: D. HALLIWELL

Date(s) Logged: Jan. 10/91 - Jan /91

Drilling Contractor: CARON DIAMOND DRILLING

Hole Cemented: NO Steel down Hole: NO

Size	CORE From	To	Collar Cased and Capped:
CASING	0.0m	2.8m?	NO
HQ	2.8m?	8.8m?	
NO CORE	8.8m?	10.0m?	
NQ	10.0m	55.2m.	

Assay Lab: NO SAMPLES TAKEN

Certificate No's: NO SAMPLES TAKEN

Started: Completed:

Lithologic Log

Date: Jan 10/91 Logged By: D. Halliwell

Core	From		To		Recov.	No.	Unit	Description		
	10	14	18	20					22	24
L		100		28		1	11A	GLACIAL OVERBURDEN. No core.		
L		28		88		2	11A	GLACIAL OVERBURDEN. Dominantly boulders of 100 quartz diorite with biotite phenocrysts set in a f.g.-m.g. groundmass of white plagioclase and quartz and lesser 10EA diorite to granodiorite. Poor core recovery (~35-40%). Presumably till mud washed away.		
L		88		100		3	11A	GLACIAL OVERBURDEN. No core.		
L		100		238		4	5B0	(5B02) (5B07) 80:19:1 Medium to dark grey. Moderately to strongly calcareous (calcite, mostly). CS ₂ foliated. Well-developed microlithic texture. Carbonate ± quartz ± carbonaceous material in siltstone bands/laminae. S ₂ surfaces are silvery-grey, and rarely black or ochre (limonitic). Fractures are rarely oxidized. Moderately hard. Good to very good core recovery (Mismatch occurred at 140, resulting in 1.8 metre core loss). Upper contact is broken. Lower contact is sharp at CA 50° (parallel S ₂) Carbonaceous 5B2 unit is dark grey to black, calcareous and soft, with CS ₂ foliation. Unit occurs sporadically within a major unit. Fractures are black or ochre (limonitic). Good to very good recovery. Gradational contacts with 5B0 unit.		
L		238		248		5	5D1	(5D0) (5D9) 10:10 Olive green, locally white-buff. Moderately to strongly calcareous. Alternately soft (unsilicified) and hard (silicified). PS ₂ foliation with siliceous bands subparallel to cross-cutting S ₂ . Fractures are silvery grey, olive green and ochre (limonitic). Very good core recovery. Sharp upper (CA 50°) and lower (CA 60°) contacts parallel S ₂ .		

Lithologic Log

Date: Jan. 10/91 Logged By: D. Halliwell

Core	From		To		Recov.	No.	Unit	Description		
	10	14	18	20					22	24
								Less siliceous unit at 25.1-25.3 is med. grey, weakly calcareous and soft. Cut by siliceous veinlet. Sharp upper and lower contacts with SD1 subparallel S ₂ .		
L	248		285			16	5B01	(5B02) 60:40 Medium to dark grey. Moderately to strongly calcareous. CS ₂ and locally PS ₂ foliated. Moderate hardness. Colour of S ₂ surfaces is silvery-grey. S ₂ and other surfaces are ochre (limonite). Heavily oxidized (ochre colour) in brecciated section near 28.0 with chloritic fault gouge. ^{parallel S₂} Rocks adjacent to breccia and gouge have healed limonitic microfractures. Very good core recovery. Sharp upper contact. More gradational lower contact. More carbonaceous phyllite is dark grey to black, moderately calcareous and moderately hard. It occurs intermittently in zones with gradational contacts into 5B01.		
L	285		298			7	5B17	(5B21) 95:5 Medium to dark grey (white to buff when siliceous). Moderately to strongly calcareous. PS ₂ foliated. Moderately hard to very hard. S ₂ surfaces are silvery grey and ochre (limonite). Largest siliceous zone at 28.75-29.2 contains olive green chlorite blobs. Very good core recovery. Gradational upper and lower contacts subparallel S ₂ .		
L	298		378			8	5B01	(5B02) 90:10 Medium to dark grey. Moderately to strongly calcareous. CS ₂ and locally PS ₂ foliate. Moderately hard ^{to soft} . S ₂ surfaces are silvery grey and occasionally ochre (limonite). Trace disseminated pyrite as		

Lithologic Log

Date: Jan 10/91 Logged By: D. Halliwell

Code	From		To		Recov.		No.		Unit	Description	
	10	14	16	20	22	24	26	28	30		34
											Subhedral to euhedral crystals (1-5mm). Very good core recovery. Gradational upper and lower contacts. Carbonaceous subunit is dark grey to black, moderately calcareous, soft and occurs intermittently within SBØ unit. Gradational contacts with SBØ unit.
L	3.78		4.24					9	SD1	(SD1 OXIDIZED) (SD6) 60:30:10 <small>(white to buff, where silicified)</small> Light grey to olive grey. Moderately to weakly calcareous. Moderately hard to hard. Silvery grey and occasionally ochre S ₂ and other surfaces. Trace disseminated euhedral pyrite crystals. Good to very good core recovery. Gradational upper contact. Fairly sharp lower contact subparallel S ₂ . Brecciation at 38.8. Oxidized zone at 39.5-41.45. Light grey to olive green with ochre (limonite) stained fractures. Weakly calcareous. Softer. Poorer core recovery, R&D. Contains chloritic, non-calcareous (not even dolomite) SD6 unit at 40.7-41.0. Sharp upper and lower contacts subparallel S ₂ . Limonitic clay fault gouge at 41.4.	
L	4.24		4.65					10	SBØ	(SBØ2) 90:10 Light to medium grey. Moderately to strongly calcareous. Moderately hard. Silvery grey and ochre (limonitic) S ₂ and other surfaces. Trace disseminated pyrite as euhedral crystals (1-5mm). CS ₂ foliated. Oxidized zones at 43.9-44.5, 45.2-45.6, with intense limonitization (limonite after pyrite?) and brecciation. Very good core recovery. Sharp upper and lower contacts parallel S ₂ . Carbonaceous bands/laminae are black, calcareous and soft. Gradational contacts.	

Lithologic Log

Date: Jan-10/91 Logged By: P. Halliwell

Code	From		To		Recov.			No.			Unit	Description
	10	14	16	20	22	24	26	28	30	34		
L	46	47							11		5D1	(100@ 5D1) 70:30 Light grey to olive green. Moderately calcareous. Moderately hard to hard. PS ₂ foliation. Silvery grey and ochre S ₂ and other surfaces. White to buff silicified bands/laminae and cross-cutting veinlets. Very good core recovery. Sharp upper contact parallel S ₂ . Gradational lower contact. Brecciated weakly calcareous (limonitic) 100@ unit has orange-white angular clasts (5-15mm) set in a light grey matrix. (matrix supported). Very good core recovery. Sharp upper and lower contacts. Wallrock fragments.
L	47	50							12		5B0	(5B02) 90:10 Medium to dark grey. Moderately to strongly calcareous. Moderately hard. PS ₂ foliation. Silvery grey and ochre (limonitic) S ₂ surfaces. Ochre stain on other surfaces. Very good core recovery. Gradational upper and lower contacts subparallel S ₂ . Rarer carbonaceous subunit is blacker, calcareous, softer, and has PS ₂ foliation. Gradational contacts with 5B0.
L	50	522							13		5F1	→ 5D1 (5D) 90:10 Light grey to olive green (white-buff, where siliceous). Moderately to weakly calcareous. Moderately hard to hard. PS ₂ foliation. Silvery grey and ochre on S ₂ surfaces. Good to very good core recovery. Gradational upper contact and sharp lower contact both parallel S ₂ . Miner 5D subunit ^{at 51.1-51.4} is olive green, calcareous and moderately hard. Gradational contacts with 5F1.
L	522	530							14		5G06	(5G16) 80:20

Lithologic Log

Date: Jan 10/91 Logged By: D. Halliwell

Code	From		To		Recov.		No.		Unit	Description	
	10	14	16	20	22	24	26	28			30
1											<p>Medium greyish green (white-buff where silicified). Weakly calcareous. Moderately hard to hard. Silvery grey on fracture surfaces. Weak PS_2 foliation, otherwise massive. Well-preserved igneous texture. Very good core recovery. Sharp upper and lower contacts. Subparallel S_2. Miner siliceous 5C16 sub-unit has abundant buff-white blobs of quartz. Weakly calcareous. Hard. Siliceous blobs cross-cut weak S_2 foliation.</p>
2	5.3		5.5				1.5		5F6	(5F61) 80:20	<p>Light grey to olive green. Weakly to non-calcareous. Moderately hard to very hard. PS_2 foliation with chloritic bands. Silvery grey and local ochre (limonite) colour on PS_2 and other surfaces. Very good core recovery. Sharp upper contact with 5C6. Miner siliceous 5F61 unit is whiter and harder. Very good core recovery. Gradational upper and lower contacts with 5F06.</p>
4											<p>END OF HOLE = 55.2m</p>

Fault Log

Date: Jan. 11/91 Logged By: D. Halliwell

Code	FROM		TO (At)		Feature	REG	UPPER		INTERNAL		LOWER		Description
	10	14 16	20 22	24 26			Dip	Direct.	Dip	Direct.	Dip	Direct.	
F	10	14 16	20 22	24 26	1.GX								minor gouge. clay washed down fracture
F	29	31	36	28	9								broken core. little core loss
F	39	39	38	9									broken core. limonitized. little core loss
F	49	49	28	9									broken core. limonitized minor gouge
F	4			1.FG	9 27	230							Weak fault: minor gouge, fracture pattern slightly oblique to CT, weak to moderate oxidation locally No slickensides

DIAMOND DRILL CORE LOG

Date: _____

Hole Number: 90DY-12-

Reference Fabric Orientation Diagram: _____

Project: DY DECLINE

Location: DY

Claim: _____

Terr. Plane Co-ords.: 6899 519.1 N

597 641.4 E

Grid Co-ords: _____

Elevation: 865.03 m elev

All symmetry determinations looking

Total Depth: 68.9m

_____ with _____ dipping

Inclination: -90 @ collar

_____ with dip azimuth _____.

Purpose: TEST ROCK QUALITY ALONG DECLINE

Reason hole Terminated: Adequate depth reached

Logged by: J. Zbechtal

Date(s) Logged: _____

Drilling Contractor: E. CARONI DD

Size	CORE From	To	Collar Cased and Capped:
CASING	0.0	9.8	No
NQ	9.8	68.9m	

Hole Cemented: No

Steel down hole: No

Started: _____ Completed: _____

Lithologic Log

Date: Jan. 11/91 Logged By: J. Zbeethoff

Code	From		To		Recov.	No.	Unit	Description
	10	14	18	22				
L		98				1	11A1	CASING: Overburden
L		98	133			2	5C08	Medium greyish green, weakly calcareous. Calcareous rock. PS ₂ foliated with moderately well-preserved igneous texture. Unit hosts 25-30% strongly altered (± calcite, clay) feldspar phenocrysts (1-2mm). Unit is moderately to strongly chloritized. Interval is moderately broken and soft. Fractures are rarely oxidized. Recovery is good. Upper contact is broken. Lower contact is sharp, parallel S ₂ .
L	133		160			3	5F61 → 5D0 (5D0) 98:02	Greyish olive-green. Very weakly calcareous to non-calcareous. Slightly to moderately silicified. CS ₂ foliated rock. Tends towards 5D0. 5D0 occurs at 13.3, 13.5 and is medium olive green. Moderately to slightly foliated. Slightly calcareous. 5D0 contacts are sharp and parallel S ₂ . Interval is moderately to strongly broken, hard, with good recovery. Colour of S ₂ surfaces are medium green and very rarely oxidized. When oxidized, oxidization is very weak. Interval contains 0-2% clotted pyrite (1-2mm).
L	160		185			4	5G65	Medium greenish and medium gray, moderately dolomitic rock is PS ₂ foliated and preserves a moderately well-preserved igneous texture. Unit contains 10-35% dolomitized and clay-altered? feldspar phenocrysts (1-3mm). Interval is moderately to strongly broken with moderate limonite along fractures. Recovery is good. Upper and lower contacts are sharp and

Lithologic Log

Date: JAN '91 Logged By: J. Zbedna

Code	From	To	Recov.	No.	Unit	Description
1	10	14	16	20	22 24 26 28 30	34 35
						parallel S ₂
	18.5	19.6			5B9	(5D0 → 5F0) 5B9 is medium to medium light gray, strongly calcareous CS ₂ foliated and hosts trace - 1% Py. 5D0 → 5F0 is mediv-green to slightly olive green strongly calcareous and PS ₂ foliated. All contacts are sharp and parallel S ₂ . All units are slightly salt and moderately to strongly broken. Recovery is good. Upper and lower contacts are sharp and parallel S ₂
	19.6	21.6			5C6b	Medium to light grayish green, weakly calcareous rock contains a medium well preserved igneous texture. Internal hosts 0-30% altered feldspar phenocrysts (clay / idomite), 0-5% leucocrone (?) and moderate oxidation along sporadic fractures. Rock is moderately broken, moderately salt with good recovery. Upper and lower contacts are sharp and parallel S ₂

Lithologic Log

Date: JAN '91 Logged By: J. Zbeeta

Code	From		To		Recov.		No.		Unit	Description	
	10	14	16	20	22	24	26	28	30		34
	21.3	35.6							589 → 5802 (500)	99:01	
										Medium gray to slightly medium darkish gray moderately locally weakly calcareous phyllite is generally CS ₂ foliated. Unit is generally strongly broken with sporadic very strongly broken, rarely crushed intervals < 30cm wide. Oxidation is sporadic and weak, limited to fracture surfaces. Trace-1% Py 500 occurs at 21.3 to 21.5 and is moderately calcareous PS ₂ foliated and medium green to medium olive-green.	
										All units are generally slightly soft, strongly broken with good recovery throughout. All contacts are sharp and parallel S ₂	
	35.6	36.7							500 (500)	60:40	
										medium to medium dark green unit is fine grained massive moderately calcareous and contains a very weak PS ₂ foliation. A very weak igneous texture exists lowest 40% of interval consists of medium green to slightly olive green weakly to moderately calcareous 500 500:500 contact is sharp and parallel S ₂ . Rocks are moderately soft moderately to slightly broken recovery is good. Upper contact is sharp and parallel S ₂ . Lower contact is sharp and fault bound. Lower contact is	

Code	From	To	Recov.	No.	Unit	Description	
1	10	14	16	20	22 24	26 28 30	34 36
							oriented @ 145°/28' relative S ₂
	36.	41.2			5C8	± * ± moderate oxidation	Medium to medium dark green moderately dolomitic, rarely moderately calcareous unit contains a well preserved igneous texture overprinted by a strong N ₂ fabric. Rock contains 5-15% altered feldspar crystals (2-3mm, dolomite, & clay). Oxidation is common, generally pervasive, moderate, & locally strong. Upper 60cm contains a strong shear fabric and is faulted with 10cm of gouge. Rock is moderately soft, moderately broken, locally very strongly broken and oxidized on fractured surfaces. 20cm of core missing. Upper contact is fault bound and oriented @ 145°/28' relative to S ₂ . Lower contact is sharp and parallel S ₂ . Below 40.4 displays moderately tight folding with axial planes subperpendicular to S ₂ . Igneous texture is very poorly preserved to non-distinguishable.
	41.2	45.			5B0	(5F0) 98:02 ± oxidized	Medium gray strongly calcareous phyllite is CS ₂ foliated and locally moderately oxidized. Interval

Lithologic Log

Date: JAN '91 Logged By: J. Zbe et north

Core	From		To		Recov.		No.		Unit	Description	
	10	14	16	20	22	24	26	28			30
											<p>is ^{very} strongly broken and oxidized along fractures and within rock at 41.4 - 42.1. Oxidized interval is moderately to locally strongly calcareous. SFD occurs as cm - dm scale alteration along a single cm quartz calcite vein at 44.9. Unit hosts 3-5% dm - cm scale quartz calcite veins. Rock is slightly soft, generally moderately to strongly broken, recovery is good. Upper and lower contacts are sharp and parallel S_2.</p>
	45.4		48.1						5B06	<p>moderately to strongly oxidized medium grayish rusty brown very weakly calcareous phyllite is PS_2 foliated and moderately to strongly oxidized throughout. Unit hosts 10% irregular well healed calcite-bearing fractures of variable but low angles to core axis. Unit is very strongly broken and locally crushed and gouged below 47.2. Core is generally moderately broken recovery is good. Upper contact is sharp and parallel S_2. Lower contact consists of 5cm at gauge.</p>	

Lithologic Log

Date: JAN '91 Logged By: J. Zbrinett

Code	From		To		Recov.		No.		Unit	Description
	10	14	16	20	22	24	26	28		
	48.		51.						5B0	Oxidized Medium gray slightly to moderately rusty brown, moderately to strongly calcareous phyllite is CS_2 foliated. Oxidation becomes strong along fractures locally. Core is slightly hard to slightly soft, moderately broken with good recovery. Upper contact is marked by 5cm of gray, lower contact is sharp and parallel S_2 .
	51.		58.						5B0	\pm oxidation Medium to medium light gray, strongly to moderately calcareous phyllite is $PS_2 \rightarrow CS_2$ foliated. Oxidation is sporadic (15-20% of interval) and is weak, rarely moderate. Unit is moderately broken locally - strongly to very strongly broken. Oxidation shows no correlation with degree of breakage. Shear textures are weak and very sporadic. Rock is moderately soft and varies in degree of breakage with strongly to very strongly broken sections at 52.0-52.7, 53.8-54.4, & 57.2-58.6. Recovery is generally good. Upper and lower contacts are sharp and parallel S_2 .

Lithologic Log

Date: JAN '91 Logged By: J. Zbeck

Code	From		To		Recov.			No.			Unit	Description
	10	14	16	20	22	24	26	28	30	34		
	58.		59.								58A	<p>Rock is tan-rusty brown, moderately to strongly dolomitic and has a moderate to weak P_2 fabric overprinted by a weak brecciated fabric. Unit hosts 15-20% quartz calcite stringers on the cm scale. Rock is moderately to slightly broken with good recovery. Core is slightly to moderately soft. Upper contact is sharp and parallel S_2. Lower contact is sharp and oriented $010/40'$ relative to S_2.</p>
	59.		68.								58B	<p>± moderate oxidation (5B1614) (98:02) Medium to medium gray, locally slightly rusty brown, moderately to strongly calcareous phyllite is generally P_2 foliated rarely CS_2. Unit is variably oxidized, generally moderately to weakly. 30-40% of interval is oxidized. At 65.9-66.2 unit is strongly altered to sericite and sporadically silicified, with upper contact parallel a steep ($30' TCA$) S_2, lower alteration contact is irregular. Calcite filled fracture networks are common (7-10% of interval). Rock is slightly soft, moderately broken, rarely strongly broken. Recovery is good. Upper contact is sharp and parallel S_2. Lower contact has not been cored. Last 2cm of interval is strongly oxidized and strongly calcareous.</p>
	68.		7									END OF HOLE

DDH 9004-12
2 8

CURRAGH RESOURCES INC.
Structural Log

Date: JAN '91 Logged By: F. Zych

Code	From	To	Feature	SYE	S ₁		S ₂		Description				
					Dip	Direct.	Dip	Direct.					
1	10	14	16	20	22	24	26	28	32	34	38	40	44
		11	PS2									80	
		15	CS2	S					20	020		75	
		23	PS2									82	
		29	CS2	S		095	26	345				74	
		32	CS2	Z		008	16	167				70	
		40											Fold - axial plane 90° TCA
		40											Fold - axial plane 90° TCA
		44	CS2	S					20	310		58	
		50	CS2	S		075	16	050				71	
		55	PS2									62	
		62	PS2	Z					12	141		78	
		64	PS2	S					10	306		73	
													End of hole.

CURRAGH RESOURCES INC.

GEOTECHNICAL LOG

DDH# 90DY-12

Units: Feet / Metres

Date: JAN '91

Logged By: J. Zbrutek

Page of

Run (Length)	TCR (Length)	RQD (Length)	Strength	Degree Breakage	Weathering Alteration	FRACTURES																Core Size	Comments			
						0-30 40				30-40 50 40-65				40-50 50-70				65 70-90								
						No	Rough	Alt	Type	No	Rough	Alt	Type	No	Rough	Alt	Type	No	Rough	Alt	Type					
0																										
4.9	0.1	0																							NR	Overburden
7.9	0.7	0.4																								
8.5	0.2	0																								
9.3	0.1	0																								
10.9	1.0	0	R ₁	9	2	2	15	6	J																	
14.0	3.1	1.5		9	2																					
17.1	2.6	0.8		7	3	2	15	6	J																	
20.1	3.1	0.9		9	2	1	15	6	J	2	15	6	J													
21.3	1.6	0.3		6	2					4	15	6	J													
23.2	1.3	0		6	1																					
25.1	2.0	0.1		6	1					2	12	10	J													
26.2	1.2	0		6	1					3	10	6	J													
28.3	2.0	0.1		6	1					1	15	6	J													
29.3	0.9	0.2		7	1	1	12	6	J																	
30.3	3.0	0.8		9	1					2	15	6	J													
35.4	2.6	0.25		7	1	1	15	13	J																	
36.0	0.9	0	V	6	2																					
38.1	1.8	0.4	R ₁	9	2	2	12	13	J	3	12	13	J													
41.1	2.6	0.9	R ₂	9	3	2	14	6	J	3	14	6	J/S													
43.9	2.6	0.7		9	3	3	12	6	J	2	12	6	J													
46.9	2.9	1.8		11	2	2	12	6	J	2	12	6	J													
47.85	0.8	0.1		6	4	1	15	13	J																	
50.6	3.0	0.35		9	3	2	15	6	J	4	15	6	J													
52.7	1.8	0.5		7	3	4	15	6	J	3	15	6	J													
54.4	2.0	0.1		7	2	2	12	6	J	12	8	6	J													
57.4	3.1	1.1		9	2	3	15	6	J	11	10	6	J													
59.7	2.1	0.1		7	3	2	12	10	J	5	12	10	J													
62.8	3.1	0.6		9	2	2	12		J																	
65.8	3.1	1.6		10	2	2	15		J																	
68.9	3.3	0.4	V	9	2																					

EOH

2-15 6-5

30 8 6 S

V

K. St. J. broken & crushed <23.4

locally crushed
locally crushed

locally v. st. J. broken

locally crushed

DIAMOND DRILL CORE LOG

Date: _____

Hole Number: 90 DY-13

Reference Fabric Orientation Diagram:

Project: DY DECLINE

Location: Dy

Claim: _____

Terr. Plane Co-ords.: 6899574.4 N

597645.8 E

Grid Co-ords: _____

Elevation: 874.22

All symmetry determinations looking

Total Depth: 100.6 m

_____ with _____ dipping

Inclination: -90 @ collar

_____ with dip azimuth _____.

Purpose: TEST ROCK QUALITY ALONG TRACE OF DECLINE

Reason hole Terminated: Appropriate depth reached

Logged by: J Zbe et al

Date(s) Logged: _____

Drilling Contractor: E. CAIZON DD

Size	CORE From	To	Collar Cased and Capped: _____
<u>CASING</u>	<u>0.0</u>	<u>16.5</u>	
	<u>16.5</u>	<u>100.6</u>	

Hole Cemented: No

Steel down hole: No

Started: _____ Completed: _____

Lithologic Log

Date: JAN 91Logged By: J. Zsectroff

Code	From	To	Recov.	No.	Unit	Description
1	10 14 16	20 22 24	26 28	30 34 36		
	16.0	16.0			511A	CASING: Sand rubble and 10E boulders commonly 15-20 cm thick. CASING removed.
	16.0	17.0			5BQ 2	Medium to medium dark gray phyllite is moderately calcareous, slightly carbonaceous and contains a well developed CS_2 fabric. Rock is moderately to moderately-strongly broken, recovery is good. Rock is moderately hard to slightly hard. Upper contact is broken, lower contact is sharp and parallel S_2 .
	17.0	22.0			5C6 (5D6) 97:03	Medium grayish green unit is non-calcareous weakly foliated and often hosts 2-5 cm bands of 5D6. Two rock types indicate broad open folding through 19.2-20.7. 5C6 hosts 10-30% very fine grained buff mineral - luccoxine(?) and 0-5% 1-2mm chloritized mafic minerals stretched into wisps along S_2 . Internal contacts are sharp. Rock is slightly hard to slightly soft, generally strongly broken, rarely crushed and very slightly broken through 19.2-22.0. Recovery is good. Upper and lower contacts are sharp and parallel S_2 .

Lithologic Log

Code	From		To		Recov.		No.		Unit	Description
	10	14	16	20	22	24	26	28		
	22.0	33.0							5BQ	(5BQ) 80:20 Medium to slightly medium dark gray, moderately to slightly strongly calcareous phyllite is PS_2 foliated. Unit hosts 1% clotted py and 0-2% quartz calcite stringers of variable orientation. Oxidation is sporadic and weak over 27.5-31.5. 5BQ2 units are waddy to very waddy carbonaceous and are commonly 3-5cm wide. Contacts are parallel S_2 and sharp. All units are moderately soft, moderately broken with good recovery throughout. Upper and lower contacts are sharp and parallel S_2 .
	33.0	33.0							5CQ	(5DQ) 60:40 Medium green to medium light grayish green units are moderately, locally slightly calcareous, PS_2 foliated and either contain a waddy preserved igneous texture (5CQ) or are massive (5DQ). 5DQ occurs uniquely at 33.6-33.9. All units are slightly hard and moderately broken, recovery is good. All contacts are sharp and parallel S_2 .

Lithologic Log

Date: JAN 91 Logged By: J. Zbehnoff

Code	From	To	Recov.	No.	Unit	Description
1	10 14 16	20 22 24	26 28 30	34 35		
	33.1	40.			5B0	(5B30 : 5B2 : 5D0) 74:15:10:01 Color varies from medium gray to dark gray. All units are strongly calcareous rarely moderately calcareous. P_{S_2} faciliation is more common than C_{S_2} . Oxidation is common over 35.9-39.6. Oxidation is generally weak, rarely moderately, very rarely strong. Strong oxidation occurs over widths < 2-3cm. Carbonaceous content varies greatly in bands on the cm scale, very rarely over the dm scale, within 5B0 unit. 5D0 occurs at 34.5-34.6. Contacts with 5D0 and 5B2 are sharp and parallel S_2 . 5B20 contacts are commonly gradational with 5B0 and 5B2. All units are moderately to slightly soft, moderately to strongly broken with good recovery throughout. Upper and lower contacts of interval are sharp and parallel S_2 .
	40.0	50.6			5C0	(5D0) 95:05 Medium green moderately locally strong calcareous unit contains a well preserved igneous texture with 5-10% 1-2mm weakly chloritized matrix clasts slightly elongated parallel a weak to moderate P_{S_2} fabric. Unit hosts trace - 20% fine grained

S	From		To		Recov.		No.		Unit	Description	
	10	14	16	20	22	24	26	28	30		34
											<p>lucosene (?) and rare bands (5cm) of 500. 500 also occurs at the upper contact at 40.0-40.4. 500 are also moderately calcareous. Rocks vary from slightly hard to slightly soft and is typically slightly broken. Oxidation is very rare < 5cm and is moderately strong or less. all contacts are sharp and parallel S₂.</p>
	50.6		51.9						500		<p>(5F01:500) 70:25:05 Medium light green to medium light olive green, moderately calcareous rock is commonly S₂ foliated, rarely CS₂ foliated. Difficulty exists in determining the difference from 5F0 and 500. A single band of 500 with a well preserved igneous texture exist at 50.9 to 51.0. All units except 500 are moderately to strongly silicified above 51.5. Rock is generally hard and slightly broken; moderately broken and slightly to moderately soft where silicification is absent. Upper and lower contacts are sharp and parallel S₂.</p>

Lithologic Log

Date: Jan 91

Logged

By: J. Zbeckhoff

Code	From		To		Recov.		No.		Unit	Description
	10	14	16	20	22	24	26	28	30	
	51.9		59.1						5B0	(5E0) 95:05. Medium to medium light gray, strongly, locally intensely calcareous (5E0) commonly CS_2 foliated locally PS_2 foliated phyllite is very sporadically oxidized oxidation is very weak where present. Intensely calcareous bands are from 1.5 to 4.0 cm wide, contain sharp contacts and are parallel S_1 . 5B0 units are moderately soft, 5E0 are slightly soft. Interval is moderately broken, recovery is good. Upper and lower contacts are sharp and parallel S_2 .
	59.1		60.1						5F9 ±1	Medium grayish green, moderately to strongly calcareous phyllite is generally weakly CS_2 foliated (re CS_2 to PS_2). Silicification is moderate and limited to rocks below 59.8. Non-silicified rocks are slightly soft silicified rocks are hard. Interval is slightly broken with good recovery. Upper and lower contacts are sharp and parallel S_2 .
	60.1		66.9						5G9	Medium green, moderately to strongly calcareous unit contains a well preserved igneous texture. Unit

Lithologic Log

Date: JAN 91 Logged By: J. Zschalig

Code	From		To		Recov.		No.		Unit	Description	
	10	14	18	20	22	24	26	28	30		34
											hosts 3-7% 1-3mm weakly chloritized mafic minerals elongated parallel to the weak to rarely moderate PS_2 fabric. Leucoxene is common constituting 5-10% of unit. Oxidation is sporadic and commonly weak, very rarely moderate. Interval is slightly broken with good recovery throughout. Upper contact is sharp parallel S_2 and is represented by a strong PS_2 fabric and fine grained texture over 25cm (500?) lower contact is sharp and parallel S_2
	66-		167r	5					579	(500) 70:30	Medium light green moderately calcareous interval consists of PS_2 foliated 500 above 67.1 and CS_2 foliated 500 below. Rock is moderately broken with good recovery. Both units are slightly soft. All contacts are sharp and parallel S_2 .
	167r	5	82r	4					580 → 5802	(5820) 85:15	Medium to slightly medium dark gray strongly calcareous phyllite is generally very weakly carbonaceous, although not enough to allow the 5802 definition. Unit is commonly CS_2 foliated and hosts 3-5% quartz calcite veinlets and clots of variable orientation. Oxidation

Code	From		To		Feature	SYM	S ₃ L3		S ₁		S ₂		Description
	10	14	16	20			22	24	26	28	32	34	
			19.		(?)	M							Open folds at 500/500 assumed to be S ₂ related? Fold axial plane @ ~90° TCA.
			27.		CS2	S		023	20	345	65		
			30.		PS2			005			74		chaotic S,
			34.		PS2						70		
			40.		PS2						62		
			46.		PS2						80		
			54.		CS2	S			22	323	70		
			58.		PS2						73		
			65.		PS2						75		
			70.		CS2	S			15	021	81		
			76.		CS2	S			11	329	81		
			79.		CS2	S			11	005	49		
			87.		PS2						55		
			92.		PS2						46		
			97.		PS2						52		
													End of fld. @ 100.6

DIAMOND DRILL CORE LOG

Date: Jan. 13/91

Hole Number: 90DY-14

Reference Fabric Orientation Diagram:

Project: DY DEPOSIT

Location: DY COLLAR

Claim: _____

Terr. Plane Co-ords.: 899673.90 N

597653.60 E

Grid Co-ords: _____

Elevation: 884.39

All symmetry determinations looking

Total Depth: 125.0 m

_____ with _____ dipping

Inclination: VERTICAL HOLE

_____ with dip azimuth _____.

Purpose: TEST ROCK QUALITY ALONG TRACE AT (PROPOSED) DY DECLINE.

Reason hole Terminated: HOLE REACHED PREDETERMINED DESIRED DEPTH

Logged by: D. HALLIWELL

Date(s) Logged: JAN. 13/91

Drilling Contractor: CARON DIAMOND DRILLING

Hole Cemented: NO Steel down Hole: NO

Size	<u>CORE</u>	To	Collar Cased and Capped: _____
<u>NO</u>	From	_____	
_____	_____	_____	

Assay Lab: NAL

Certificate No's: N. A.

Started: _____ Completed: _____

Lithologic Log

Date: JAN 13/91 Logged By: D. HALLIWELL

Core No.	From		To		Recov.	No.	Unit	Description		
	10	14	18	20					22	24
L	00		1A9			001	11A	CASING: Glacial Overburden. No core.		
L	00		111			002	11A	CASING: Glacial Overburden. Includes boulders, cobbles and pebbles of 10A > 5F.		
L	111		126			003	5B2	(5B0) 80:20 Dark grey to black, Moderately to strongly calcareous phyllite, Strongly PS ₂ foliated. Broken and poker chip unit. Silvery grey and ochre (limonite) coloured fractures. ^{Moderately hard} Very poor core recovery, R&D. Sharp lower contact at CA80° parallel S ₂ . Buff to ochre less carbonaceous ^{and calcareous} sub-unit at 11.1-11.2 with PS ₂ foliation and ochre to buff coloured fractures.		
L	126		137			004	5F0	5B0 (5B0)(5B2) 70:15:15 Olive greenish light grey. Moderately to strongly calcareous. PS ₂ and CS ₂ foliated. Silvery grey and ochre (limonite) coloured fractures. Moderately hard. Poor core recovery, R&D. Sharp upper and lower contacts at CA80°; lower contact marked by quartz veinlet/vein. Medium grey less chloritic sub-unit near upper contact is calcareous and has silvery grey coloured fractures. Moderately hard. PS ₂ foliated. Carbonaceous subunit is dark grey, calcareous and softer.		
L	137		163			005	5B2	Dark grey carbonaceous phyllite. Moderately to strongly calcareous. Strong PS ₂ foliation, producing poker chips locally. Moderately hard. Occasional carbonate-quartz veinlet subparallel S ₂ . Silvery grey to black, sometimes ochre (limonite) fractures. Very good core recovery. Good R&D. Sharp upper		

Lithologic Log

Date: Jan 13/91 Logged By: D. Halliwell

Code	From		To		Recov.		No.		Unit	Description
	10	14	18	20	22	24	26	28		
										contact at CA 55°. Gradational lower contact.
L	1.63	1.72			0.96				5B0	<p>5B02 98.02</p> <p>Medium gray ^{phyllite} with ochre bands (limonite), cut by buff-white carbonate-quartz laminae following S₁. Moderately to strongly calcareous. CS₂ and PS₂ foliated. Silvery gray and ochre (limonite) coloured fractures. Moderately hard. Very good core recovery, R.D. Gradational upper contact. Sharp lower contact at CA 70°-80°. Very weakly chloritic. Slightly more carbonaceous sub-unit occurs as bands subparallel S₂ up to 0.1 m wide. Dark gray. Moderately calcareous and hard. CS₂-foliated. Silvery gray to black fractures. Gradational contacts with 5B0 → 5F0.</p>
L	1.72	3.33			0.07				5B2	<p>(5B02) (5B02) 98.02</p> <p>Dark gray to black phyllite, with buff-white carbonate-quartz veinlets subparallel S₂. Moderately to strongly calcareous. Strongly CS₂ and PS₂ foliated. Contains 1-2% pyrite as disseminated euhedral to subhedral crystals (<3mm) and as bands (<2mm wide) subparallel S₂ & S₁. (Pyrite sometimes is altering to limonite). Moderately hard to soft. Silvery gray black (graphite) ochre (limonite) and rare brick red (hematite) colours on fractures. Very good core recovery. Good R.D. Sharp upper contact. Gradational lower contact.</p> <p>Carbonate-quartz vein/veinlet bearing 5B2 occurs above 20.5.</p> <p>Buff-white, hard, calcareous (calcite). PS₂ foliated. Gradational contacts with 5B2.</p> <p>Medium gray ^{quartz vein} subunit at 32.8-33.0 moderately calcareous, hard, ochre-stained and has gradational contacts with 5B2.</p>

Code	From		To		Recov.		No.		Unit	Description	
	10	14	18	20	22	24	26	28			30
L	333	350					068		5B2C	→ 5B2	Medium to dark grey. Moderately to strongly calcareous. CS ₂ foliated. Silvery grey and ochre (limonite) coloured surfaces. Moderately hard to hard (silicified). Contains trace disseminated pyrite and carbonate quartz bands/laminae parallel S ₂ . Very good core recovery, RSD. Gradational upper contact. Sharp lower contact at Ct 80°.
L	350	364					009		5C0		Medium grey with yellowish-grey bleached colour. Moderately calcareous. Moderately hard (weakly silicified). Silvery grey and ochre (limonite) colour on fractures. PS ₂ foliated. Contains trace disseminated pyrite. Retains ^{relict porphyritic} igneous texture. Dark grey subhedral (pyroxene?) phenocrysts present. Very good core recovery, RSD. Sharp upper and lower contacts at Ct 80° parallel S ₂ .
L	364	424					010		5B2	(5D0) 95:5	Dark grey phyllite. Moderately to strongly calcareous. CS ₂ and PS ₂ foliated. Silvery grey, black (carbonaceous material) and ochre (limonite) colour on fractures. Soft to moderately hard. Contains 1-2% disseminated euhedral (cubes) to subhedral pyrite (< 5mm) as blebs and calcite replacement patches(?). Very good core recovery. Good RSD. Sharp upper and lower contacts at Ct 80° parallel S ₂ . Chloritic phyllite subunit at 41.1-41.2 is olive-greenish grey, is calcareous, has PS ₂ , is moderately hard and has sharp contacts parallel S ₂ .

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Code	From		To		Recov.	No.	Unit	Description	
	10	14	18	22					24
L	424	456				011	5C0	-(5B20:5D) 97:02:01 Light olive-greenish grey. Moderately to strongly calcareous. P _{S2} foliated, with carbonate-quartz bands/laminae (<0.7m). Parallel S ₂ . Stretched dark grey ^{anhedral} phenocrysts present suggest possible relict porphyritic igneous texture. Moderately hard to hard (quartz). Silvery grey and ochre (limonite) coloured fractures. Trace disseminated pyrite. Very good core recovery, R&D. Gradational upper and lower contacts subparallel S ₂ .	
L	458	575				012	5B20	(5B2:5B5) 70:5:25 Medium to dark grey, with buff-white carbonate-quartz veinlets parallel both S ₁ and S ₂ . Strongly to moderately calcareous. C _{S2} foliated. Silvery grey and ochre (limonite) coloured fractures. Moderately hard. Trace disseminated pyrite as subhedral to euhedral crystals (<2mm). More calcite-quartz below 46.9. Very good core recovery. Good R&D. Gradational contacts subparallel S ₂ . Dark grey, calcareous, moderately hard subunit throughout 5B2, 5B5 → Occurs below 53.1 as "zebra-stripes" banded sub-units with alternating 5B0 and 5B0/2. Moderately calcareous and hard. P _{S2} and C _{S2} foliated. Silvery grey and ochre (limonite) coloured fractures. Contains trace disseminated pyrite. Gradational contacts with 5B0/2.	
L	575	606				013	5F0	± 1	

Core	From	To	Recov.	No.	Unit	Description
1	10	14 16	20 22 24	26 28	30 34 35	
						Light - greenish gray with slight yellowish-gray bleached appearance. Moderately calcareous. CS_2 and PS_2 foliated. Silvery gray and ochre (limonite) colour on fractures. Moderately hard. Stretched dark gray subhedral phenocrysts are locally present, suggesting relict porphyritic igneous texture (unit may be transitional between phyllites and metabasites). Carbonate-quartz veins/veinlets cross-cut S_2 foliation. Very good core recovery, RQD. Sharp upper contact at CA 70° marked by minor limonitic gouge. Sharp lower contact marked by quartz veinlet/vein at CA 20°-55° (convolute).
L	606	679		014	500	500 (500) rarely non calcareous Medium - greenish gray. Moderately to weakly calcareous. Weakly PS_2 foliated to massive. Stretched dark gray subhedral phenocrysts of amphibole or pyroxene and rare white subhedral (leucokene?) phenocrysts set in a medium gray groundmass in relict porphyritic igneous texture. Soft to moderately hard. Carbonate-quartz laminae likely follow S_1 foliation. Very good core recovery, RQD. Sharp upper contact is convolute (CA 20°-55°) and marked by quartz veinlet/vein. Lower contact is sharp, convolute (CA 30°-60°) and marked by ^{quartz} silicified subunit occurs below 66.4m contains buff-white quartz-carbonate veining (flooding?) subparallel S_2 . Bleached appearance. Moderately hard to hard. Contains limonitized fractures at CA 30°-80° at 65.8-66.2.
L	679	774		015	500	

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Code	From				To				Recov.	No.	Unit	Description
	10	14	18	22	24	26	28	30				
												Medium greenish grey groundmass with dark green-grey stretched subhedral mafic (amphibole, pyroxene?) phenocrysts are rarer white anhedral (leucosome?) phenocrysts. Relict porphyritic igneous texture. Moderately hard. Very good core recovery, RQD. Sharp convolute upper contact at CA 30°-60° marked by quartz vein or bands. Moderately sharp lower contact at CA 80° with possible chill margin (not seen at upper contact ⇒ sill, not dyke). Moderately calcareous. Grey and ochre fracture surfaces. Weak PS ₂ foliation.
L	7.74		7.85							016	5C0	
												Medium greenish grey groundmass with dark green and white phenocrysts as above. Moderately calcareous. Grey and ochre (limonitic) fracture surfaces. Weak PS ₂ foliation. ^{relict porphyritic igneous texture} Quartz-carbonate bands/laminae parallel S ₂ and sometimes cross-cutting S ₂ . Moderately hard to hard. Good to very good core recovery, RQD. Sharp convolute upper contact at CA 80° marked by quartz band. Gradational lower contact.
L	7.85		8.04							017	5C0	
												Medium greenish grey groundmass with ^{stretched} dark grey subhedral and rare white anhedral phenocrysts as above in a relict porphyritic igneous texture. Occasional buff-white bands/laminae subparallel S ₂ . Moderately calcareous. Weak PS ₂ foliation. Moderately hard. Very good core recovery, RQD. Gradational upper and lower contacts.
L	8.04		9.55							018	5C0	

Code	From		To		Recov.			No.			Unit	Description
	10	14	18	20	22	24	26	28	30	34		
												Light greenish-grey groundmass with sometimes stretched dark grey (pyroxene or amphibole?) phenocrysts and lesser white (leucosome?) phenocrysts within a relict porphyritic ground texture. Moderately to strongly calcareous. Blank PS foliation. Grey and ochre (limonite) coloured fractures. Moderately hard to hard. Locally, quartz-carbonate bands/laminae parallel S ₂ and rock within these/adjacent to these is harder, smoother (fractured?). Very good core recovery. Good to very good R&D. Gradational upper and lower contacts.
L	955	997					019			500	(5F0) 85:15	Light greenish to yellow-greenish grey. Moderately calcareous. Moderate PS foliation. Grey, ochre (limonite), yellow (limonitic clay, in gouge at 95.7) fracture surfaces. Moderately hard. Contains quartz-carbonate bands (laminae) which are white, hard. Very good core recovery. Good R&D. Gradational upper contact. Sharp lower contact at CA 70° marked by limonite-clay fault(?) gouge. at 98.8-99.7 has a is calcareous and moderately hard. fracture surfaces . Silver grey and ochre fracture surfaces.
L	997	1079					020			5B02	(5B20) 90:10	Dark grey to black weakly carbonaceous phyllite with ^{white} carbonate/quartz bands/laminae. Moderately to strongly calcareous. Strong S ₂ foliation. Silvery grey and ochre (limonite) fracture surfaces. Moderately hard to hard. Very good core recovery. Good R&D. Sharp upper and lower

Lithologic Log

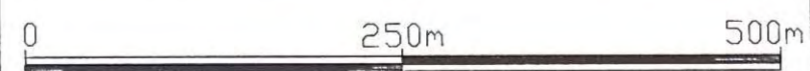
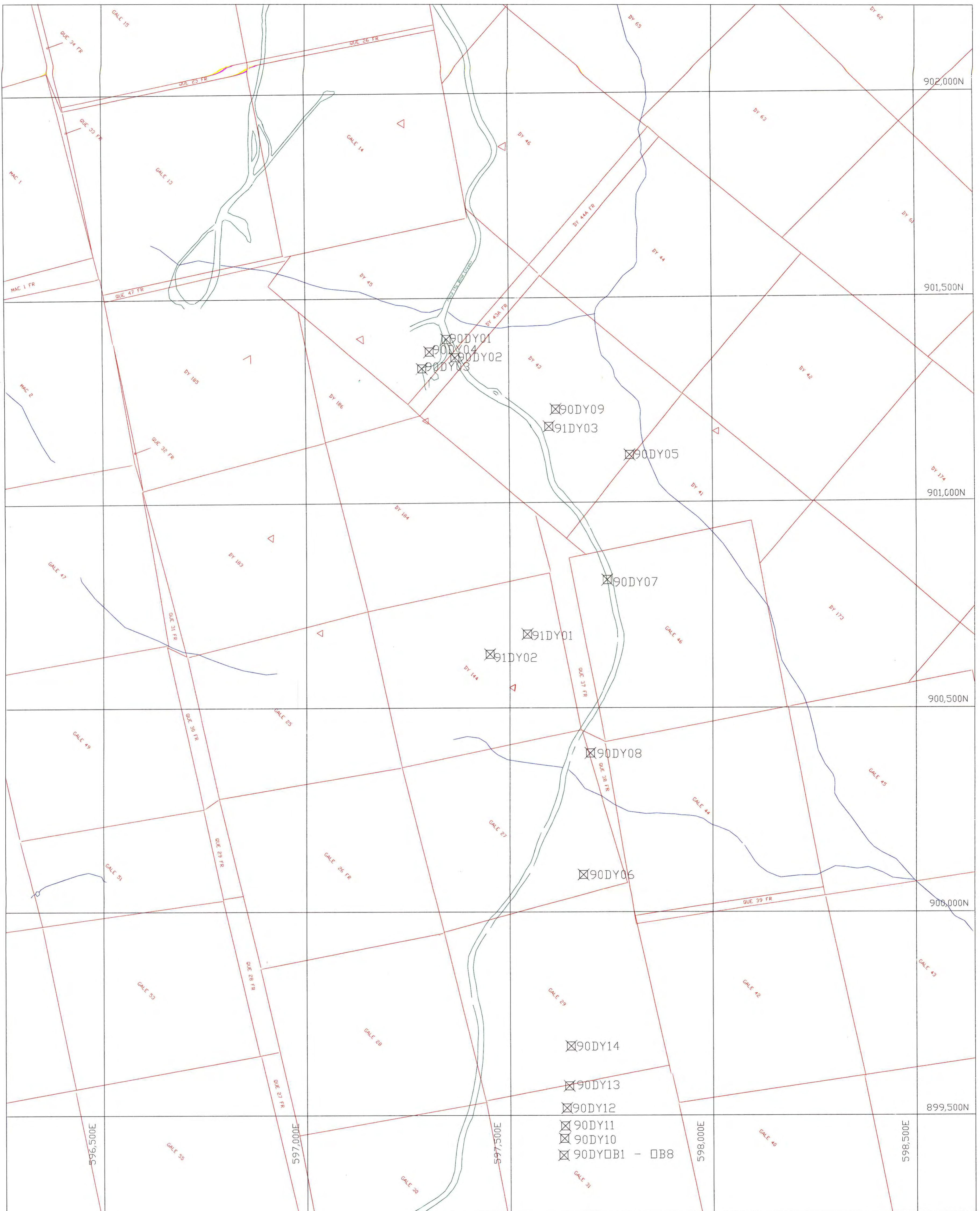
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Code	From	To	Recov.	No.	Unit	Description		
1	10	14	16	20	22 24	26 28 30	34 36	
								Contacts subparallel S_2 and marked by quartz bands
L	1.079	1.105		021	5B0	2 (5B02)	7.0:3.0	<p>Medium to dark grey with buff-white carbonate-quartz bands/laminae. Moderately calcareous. CS_2 foliated. Silvery grey and ochre (limonite) fracture surfaces. Moderately hard to hard (where silicified). Clay-chlorite/limonite minor fault gouge at CA60° at 109.3-109.5. Very good core recovery. Fair RQD. Sharp upper and lower contacts subparallel S_2 marked by quartz-carbonate bands.</p> <p>Medium to dark ^{clay} carbonaceous phyllite sub-unit is calcareous, CS_2 foliated, moderately hard and has silvery grey and ochre (limonite) fracture surfaces. Gradational contacts with 5B17.</p>
L	1.105	1.228		022	5B0	(5B02) (5F0)	6.5:3.0:1.5	<p>Medium grey with buff-white quartz-carbonate bands/laminae. Moderately calcareous. CS_2 ^{PS} foliated. Silvery grey and ochre (limonite) fracture surfaces. Moderately hard to hard (quartz). Fair core recovery (some core loss at 116.3-121.6). Fair to good RQD. Sharp upper contact subparallel S_2 and marked by quartz band. Gradational lower contact. Trace disseminated pyrite.</p> <p>Dark grey more carbonaceous sub-unit is calcareous, CS_2 and PS_2 foliated, moderately hard and has silvery grey, dark grey and ochre (limonite) fracture surfaces. Gradational contacts with 5B0.</p> <p>Olive-greenish grey chloritic sub-unit is calcareous, CS_2 foliated, moderately hard and has silvery grey, olive green and ochre (limonite) fracture surfaces. Sharp contacts parallel S_2 with 5B0.</p>

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Code	From	To	Recov.	No.	Unit	Description					
	10	14	16	20	22	24	26	28	30	34	36
L	1228	1232		Q23	SBQ	→ 5FD Medium to light grey with yellowish grey tint. Buff-white quartz-carbonate bands following S ₂ and laminae following S ₁ . Moderately calcareous. C ₂ and PS ₂ foliated. Moderately hard to hard (where silicified). Good core recovery. Fair RQD. Sharp upper and lower contacts parallel S ₂ .					
L	1232	1250		Q24	SBQ2	Dark grey with buff-white quartz-carbonate bands/laminae subparallel S ₂ foliations. Moderately calcareous. C ₂ and PS ₂ foliated. Silvery grey and ochre (limonite) fracture surfaces. Moderately hard to hard (quartz). Very good core recovery, RQD. Trace disseminated pyrite. Sharp upper contact parallel S ₂ . 125.0 = FOH					



REVISIONS:

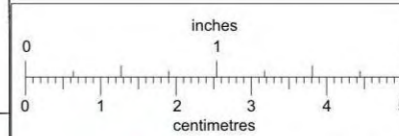
DY PROPERTY

1990 - 1991 DRILLHOLE LOCATION PLAN

REPORT No:	FIG. No:
Drawn by:	Date:
Drawing No:	N.T.S. Sheet No:

LEGEND:

☒ DRILLHOLE COLLAR LOCATION



This reference scale bar has been added to the original image. It will scale at the same rate as the image, therefore it can be used as a reference for the original size.

