

Lithologic Log

Date: MAY '91 Logged By: S. Zbeck

Code	From	To	Recov.	No.	Unit	Description	
1	10	14	16	20	22 24	26 28 30	34 35
	0.0	2.6			84	CASING	
	2.6	11.9			86	76, Clay & boulders, poor recovery.	
	11.9	20.1			30	L → 74 (44 L) 95:05	
						Dark gray to black, commonly oxidized reddish brown, non-calcareous moderately graphitic phyllite is crushed throughout. Gouge is common and locally represents intervals of very poor to no recovery locally up to 1.5m. limonite alteration is very common. Interval contains 5% 10-25cm bands of light brown unit 44 which has no P ₂ S ₅ .	
						Lower contact is marked by graphitic gouge with very poor recovery. Unit contains very rare occurrences of clotted marcasite.	
	20.1	22.6			30	(72 → 30) 60:40	
						Dark gray to black non-calcareous graphitic phyllite is very strongly broken, hosts 0-trace P ₂ S ₅ → marcasite. Interval consists of gouge to 21.9. Recover is nil to very poor to 21.9, good to fair below. Lower contact is slightly irregular but generally trends // S ₂ .	

Code	From	To	Recov.	No.	Unit	Description						
	10	14	16	20	22	24	26	28	30	34	35	
	22.6	24.0			AA	#3						
												High grayish green, non-calcareous PS_2 foliated metabasite hosts 2-30% fuchsite. Unit is slightly to moderately sandy, strongly to moderately broken and has good recovery. Upper contact is slightly irregular but generally $\parallel S_1$. Lower contact is sharp and $\parallel S_2$.
	24.0	24.8			2	ZSG $\pm P \rightarrow 3$						
												High gray, non-calcareous, very strongly silicified, unit hosts 10-15% sp. tracing S_2 and rarely S_1 , 0-1% pyrite and 1-2% glauc. Unit is sporadically sericitically altered in mm scale chips $\parallel S_2$ and S_1 . Unit appears to be a bleached graphitic quartzite now lacking any remnant of graphite. Rock is very hard, moderately broken and has good recovery. Upper and lower contacts are sharp and $\parallel S_2$.
	24.8	39.7			2							
												Dark gray, non-calcareous, graphitic quartzite displays moderately well developed ribbon bandings. Unit is generally moderately mineralized, locally weakly mineralized and very rarely strongly mineralized with Zn + Pb. Interval contains 3-7% fine grained Pyrite. Rock is hard, moderately broken locally strongly broken and has good recovery throughout. Upper contact is sharp and $\parallel S_2$.

Code	From	To	Recov.	No.	Unit	Description	
1	10	14	16	20	22 24 26 28 30	34 35	Lower contact is gradual over 5cm with a "bleaching" and loss of graphitic disc. hds. Estimated grade is 5-7%
	39.7	41.6			2	ZG±S±P → 3 (44#j) 9B:02	Light gray, non-calcareous "bleached" quartzite is moderately mineralized and only locally graphitic with gradational contacts. Unit has trace 5% disseminated pyrite and often displays fairly well to poorly preserved ribbon banding. Sericite is very rare and occurs as occurs on S ₂ surfaces. Interval has two 10cm bands of non-calcareous altered, fuchsite-bearing metabasite. Metabasite exists at 41.0 and 41.6. All contacts are sharp and // S ₂ . Only variations in graphite display gradational contacts. Estimated grade is 5-7%.
	41.6	41.9			5	(2→3:44#j) 45:43:02	Mixed interval has 5-6cm bands of massive pyritic sulphides at upper and lower contacts. Massive sulphides appear very widely mineralized. Interval portion of unit is bleached "graphitic" quartzite, which is moderately to strongly mineralized. Altered fuchsite-bearing metabasite occur throughout as wisps, clots and bands from 0.2-2.0cm wide, generally trending // S ₂ . All contacts are sharp and ~ // S ₂ . Estimated grade is ≤5%.

Code	From	To	Recov.	No.	Unit	Description
1	10	14 16	20 22 24	26 28	30 34 35	
	A1.9	A2.6			AA #j	(60Pk : 30P : 5) 80 : 20 : trace : trace light to medium yellowish green, non-calcareous, -sulfate-bearing metabasite hosts wisps and stringers of graphitic phyllite and 2-3 mm wisps of pyritic massive sulfides. Interval also hosts 2-12 cm clotty quartz-analcime dolomite veins. All bands, wisps and contacts are sharp as // S ₂ . No grade exposed.
	A2.6	A8.8			30 P±s → 20g (72) 98 : 02	Dark gray, non-calcareous, moderately graphitic phyllite hosts 2-3% disseminated stringers of P ₂ . Sericitic alteration is very weak and is limited to rock below 46.0. Rock is slightly soft, strongly broken and has good recovery throughout. Gouge bands constitute 1-2% at interval and occur in 1-2 cm bands // S ₂ . Upper contact is sharp as // S ₂ . Lower contact is sharp and marked by a 1 cm quartz vein subparallel S ₂ .
	A8.8	54.4			2 P±2g (30±g P 8 30s → 20s±g) 75 : 20 : 05	Dark gray to black, non-calcareous, graphitic quartzite is weakly mineralized and hosts 15-20% graphitic phyllite bands that host sporadic weak silicification. G. Phyllite is barren of mineralization. Interval also hosts 5-7% very soft to soft 5-15 cm bands of moderately sericitically

Code	From	To	Recov.	No.	Unit	Description
1	10	14	16	20	22 24 26 28 30 34 35	
						ph. lite that appears to have lost some or most of its graphitic material. All contacts are sharp and // S ₁ . Estimated grade is ≤ 2%.
	54.4	55.0			52 (3P) 90:10	
						High yellowish gray, non-calcareous unit host strong sericitic alteration and 10-15% 2.0-4.0 cm bands and wisps of barren pyritic quartzite. Rock is soft, strongly broken to crushed but has good recovery. Upper contact is sharp and // S ₁ . Lower contact is crushed.
	55.0	56.2			4A #j (7) 80:20	
						Strongly altered, non-calcareous metabasite is -sclerite-bearing and non-calcareous. Interval hosts a ^{25cm} strongly mineralized baritic massive sulphide band centered at 55.5. Baritic unit has contacts that are sharp, slightly irregular but do trace S ₂ . Interval contains crushed upper and lower contacts. Lower contact approx // S ₂ .

Code	From	To	Recov.	No.	Unit	Description
1	10	14 16	20 22 24	26 28	30 34 35	
	56.2	57.1	1		7	(5-±→74) 60%40 Baffle massive sulphides are strongly mineralized non-calcareous and hosts 40% pyritic massive sulphide bands and wisps from 30-2.0cm wide. At 56.3-56.6 pyritic band displays a well healed matrix supported breccia with a slightly porous matrix that is darker than fragments. Rocks are slightly to moderately broken and have good recovery. All contacts are sharp and // S ₂ and bedding. Estimated grade is 12%.
	57.1	58.8			2	Dark gray, noncalcareous, strongly mineralized graphitic quartzite is bleached over the lower 40cm with a gradual loss of graphitic matter down hole. Upper and lower contacts are sharp and // S ₂ . Estimated grade is 10-12%.
	58.8	60.9			AA ₁ ±j ±2	Buff-tan, non-calcareous metabasite is PS ₂ -foliated and hosts sporadic weak chloritic alteration and scattered clasts of stibnite. Unit is soft, moderately broken and has good recovery. Upper and lower contacts are sharp and // S ₂ .

Code	From		To		Recov.		No.		Unit	Description
	10	14	15	20	22	24	26	28		
	60.9		65.4						2	(44# 5j = 72 → 30) 94:05:01 Graphitic quartzite is moderately mineralized above 63.7 and generally strongly mineralized below. Interval hosts 5cm of crushed → jagged graphitic phyllite @ 62.4. Interval supports 35% 10-30cm beds of altered metabasite. Metabasite is limited below 63.3. All units are non-calcareous. All contacts are sharp and // S ₂ . Estimated grade is 5-7%.
	65.4		66.2						AA #j	Soft-tan non-calcareous metabasite is ps ₂ -foliated and hosts rare clots of feldspar. Unit is moderately to slightly salt. Upper and lower contacts are sharp and // S ₂ .
	66.2		67.3						7 → 5 (2) 99:01	Moderately basaltic massive sulfides are strongly mineralized weakly banded, slightly broken and hosts minor graphitic phyllite at upper contact. Upper and lower contacts are sharp and parallel S ₁ . Estimated grade is 15-17%.

Code	From	To	Recov.	No.	Unit	Description
	10 14 16 20 22 24 26 28 30 34 35					
	67.3	69.1			2	Graphitic quartzite hosts bands of strong mineralization hosting bands from 0.5-2.2 cm wide of strongly silicified quartzite but barren of any sulphides. Bands trace low angles to core axis. S ₂ is widely developed. Rock is hard, moderately broken. Upper and lower contacts are sharp and // S ₂ . Estimated grade is 5%.
	69.1	71.7			2	(44") 51:49 Graphitic quartzite is moderately bleached, strongly mineralized and hosts 49% buff malabasite bands. Malabasite lacks fuchsite. Malabasite bands occur as wisps 1-5mm above 69.8 and bands up to 80cm wide below 69.8. All contacts are sharp and // S ₂ . Estimated grade of quartzite is 7-10%, over all unit may assay as low as 2-3%.
	71.7	74.5			7	+ #e (44" : 2) 97:03:01 Strongly mineralized baritic massive sulphides hosts scattered wisps and bands of malabasite and graphitic quartzite from 1-3 cm wide. All contacts are sharp and // S ₂ . Baritic unit is tanish, highly porous and permeable over the lowest 10cm of interval. Estimated at interval is 12-15%

Code	From		To		Recov.		No.		Unit	Description	
	10	14	16	20	22	24	26	28	30		34
	74.5		74.8						20		<p>Medium gray noncalcareous PS foliated phyllite lacks sulphides and silica flooding. Phyllite is very strongly broken soft and has sharp upper and lower contacts.</p>
	74.8		75.7						7	(5) 60:40	<p>Baritic massive sulphides are strongly mineralized and occurs above 75.5. Pyritic massive sulphide occurs exclusively below 75.5 and are very weakly mineralized and display <u>no</u> brecciated texture. All contacts are sharp and <u>HS</u>.</p> <p>Estimated grade of baritic material is 17%. Pyritic sulphides host 2-3% or less.</p>
	75.9		78.7						2	(47#) 65:35	<p>Moderately to rarely strongly mineralized graphitic quartzite hosts 35% buff-tan chloritic phyllite or altered metabasite bands - from 2.0-10.0m wide scattered throughout. All contacts are sharp and <u>HS</u>.</p> <p>Estimated grade of quartzite bands is 3-5%.</p>

Code	From	To	Recov.	No.	Unit	Description					
	10	14	16	20	22	24	26	28	30	34	35
	78.7	88.5			29	g → 30	<p>Medium locally dark gray, non-calcareous phyllite is PS₂ foliated. Crushed intervals at gage burds are very common, recovery is poor above 84.7 and fair to good below. Upper contact is sharp and PS₂ lower contact is gradual over 10cm.</p>				
	88.5	90.5			29	sl → 54 (44:72) 85:10:05	<p>Medium greenish gray, non-calcareous, PS₂ foliated phyllite is moderately to weakly sericitically and chloritically altered. Bed is moderately sub and strongly broken. Gage burds are typically 20-30cm wide and have contacts appearing 1/S₂. Interval hosts a single metabasite band at 91.7-92.6. Upper contact is gradual. Lower contact is fault bound and trends @ 030/05 with S₂.</p>				
	90.5	94.7			29	→ 74 → 72	<p>Medium gray, non-calcareous phyllite hosts a fault bound upper contact trending 030/05 with S₂. Shear / fault fabric continues for 40cm and is crushed until 2 gage below. Lower contact is sharp and marked by gage.</p>				

Code	From	To	Recov.	No.	Unit	Description						
1	10	14	16	20	22	24	26	28	30	34	35	
	94.7	95.4			29	ggsl (72) 90:10	Medium gray to very slightly greenish gray, CS_2 foliated phyllite is strongly silicified, and hosts weak to very weak sericite and chlorite alteration. No sulphides are noted. Upper and lower contacts are sharp and marked by gouge.					
	95.4	97.0			A9	l	Medium greenish gray, strongly calcareous phyllite is moderately chloritized and CS_2 foliated. Rock is slightly to moderately silty. Upper and lower contacts are sharp and // S_1 .					
	97.0	99.3			30	±D (47:20l) 75:23:02	Dark gray to black, PS_2 foliated graphitic phyllite hosts 20-23% medium green PS_2 foliated massive chloritic phyllite and 1-2% chloritized CS_2 foliated phyllite. All contacts are sharp and // S_2 . No unit is calcareous.					
	99.3	100.0			A7	(20l 930 → 20) 70:20:10	Medium green unit is commonly massive; PS_2 foliated locally CS_2 foliated. Interval hosts 10-15% moderately to weakly graphitic phyllite with contacts // S_1 . Upper contact is sharp and // S_2 .					
						EOH @ 100.0-						

ASSAY LOG (SAMPLER'S COPY)

Date MAY '91

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
	0.0	0.4	0										WASTE
	0.4	0.8	8	648166					0.7		2		
	0.8	1.2	2	867					1.4		2		
	1.2	1.6	2	868					1.5		2		
	1.6	2.0	4	869					1.0		2		
	2.0	2.4	4	870					2.2		2		
	2.4	2.8	4	871					1.3		2		
	2.8	3.2	4	872					0.7		2		
	3.2	3.6	4	873					1.3		2		
	3.6	4.0	4	874					1.2		2		
	4.0	4.4	4	875					1.0		2		
	4.4	4.8	4	876					1.1		2		
	4.8	5.2	4	877					1.3		2		
	5.2	5.6	4	878					1.3		2		
	5.6	6.0	4	879					0.6				
	6.0	6.4	4	880					0.3				
	6.4	6.8	4										WASTE
	6.8	7.2	4	881					1.7		2		± 30g
	7.2	7.6	4	882					1.2		2		± 30g
	7.6	8.0	4	883					1.7		2		± 30g
	8.0	8.4	4	884					9.6		52		
	8.4	8.8	4	885					1.1		AA		(7)
	8.8	9.2	4	886					0.7		7		(5) 60.40
	9.2	9.6	4	887					1.7		2		
	9.6	10.0	4	888					2.1		AA		
	10.0	10.4	4	889					2.3		2		
	10.4	10.8	4	890					0.6		AA		(2)
	10.8	11.2	4	891					1.4		2		
	11.2	11.6	4	892					0.8		AA		
	11.6	12.0	4	893					1.1		7		→ 5
	12.0	12.4	4	894					1.8		2		
	12.4	12.8	4	895					0.7		2		
	12.8	13.2	4	896					1.9		AA		(2) 65.35
	13.2	13.6	4	897					1.8		7		
	13.6	14.0	4	898					1.0		7		
	14.0	14.4	4	64899					0.3		20		

Cont'd . . . 7

Code	From	To	Feature	E 57	S ₀ L ₃		S ₁		S ₂		Description		
					Dip	Direct.	Dip	Direct.	Dip	Direct.			
	10	14	16	20	22	24	26	28	32	34	38	40	44
		11.1	PS2									63	
		18.1	PS2									54	
		25.1	CP2 S					22	290			60	
		28.1	CP2 S				072	20	050			70	
		33.1	CP2 S					29	310			80	
		39.1	CP2 S					23	055			65	
		46.1	PS2				076					58	
		56.1	PS2				102					65	
		57.1	PS2									55	
		61.1	PS2									70	
		67.1	CP2					16	340			77	very weak S ₂
		71.1	PS2									52	
		78.1	CP2 S					37	290			70	
		82.1	PS2				152					58	
		88.1	PS2				136					61	
		92.1	PS2									65	
		96.1	CP2					15	015			61	
		99.1	PS2									70	
													EQ 100.0

Code	FROM		TO (At)		Feature	REC	UPPER		INTERNAL		LOWER		Description	
	Dip	Direct	Dip	Direct			Dip	Direct	Dip	Direct	Dip	Direct		
1	10	14	16	20	22	24	26	28	32	34	38	40	44	
	11		12		R2G									
			102											10cm gage
	79		79		G3									
	79		80		R2									
	180		182		B3G									
	184		184		G3									
	189		189		G3									
	90		91		G3B									
	93		94		S3			05	045					
	94		94		B3G									50M @ 100.0

CURRAGH RESOURCES INC.

GEOTECHNICAL LOG

DDH# 916-14

Units: Feet / Metres

Date: MAY '91

Logged By: J. Zbr...

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Run (Length)	TCR (Length)	ROD (Length)	Strength	Degree Breakage	Weathering Abrasion	FRACTURES												CORE SIZE	COMMENTS
						0-30				30-65				65-90					
						No	Rough	Alt	Type	No	Rough	Alt	Type	No	Rough	Alt	Type		
11.9																			
12.5	0.3	0																	
13.7	0.6	0																	
14.9	0.2	0																	
15.6	0.1	0																	
15.9	0.05	0																	
16.5	0.4	0																	
17.7	0.4	0																	
18.6	0.8	0																	
20.1	0.3	0																	
21.6	0.05	0																	
23.2	1.6	0																	
24.7	1.4	0.6																	
25.9	1.2	0.3																	
27.1	1.2	0.5																	
27.7	0.6	0.3																	
29.3	1.4	0.4																	
30.2	1.5	0.6																	
32.3	1.5	0.6																	
33.8	1.5	0.1																	
35.4	1.5	0.6																	
36.9	1.4	0.5																	
38.4	1.5	0.8																	
39.9	1.5	0.5																	
41.5	1.6	0.8																	
43.0	1.5	0																	
44.5	1.5	0.5																	
46.0	1.5	0.3																	

11.9 - 21.6
M-2 7B Poor 1 core

