

Code	From		To		Recov.		No.		Unit		Description
	10	14	16	20	22	24	26	28	30	34	
	10.0	12.2							802		CASINGS - (casing pulled after hole completed)
	12.2	16.6							20	LL	Rusty brown, non-calcareous, $CS_2$ foliated phyllite is strongly limonitized, strongly broken, soft and has good recovery. Lower contact is gradational over 10m and noted as a loss in limonitic alteration. limonite is <del>good</del> pervasive throughout unit.
	16.6	26.3							20	±L	Medium gray, non-calcareous, $PS_2$ and $CS_2$ foliated phyllite is strongly broken and hosts moderately to weak limonite limited to fractures and occurs on only 5% of fracture surface. Rock is strongly broken, moderately soft and has good recovery above 22.0, poor below 22.0. Upper contact is gradational over 10m noted by a reduction in limonite alteration down hole. Lower contact is crushed.
	26.3	30.2							30	~	Very dark gray to black, non-calcareous, graphitic phyllite is very strongly broken, commonly crushed and gummy. Recovery is poor above 29.6, good below. Upper contact is crushed, lower contact is sharp and parallel $S_2$ .

Code	From		To		Recov.		No.		Unit	Description	
	10	14	16	20	22	24	26	28	30		34
	30.1	2	31.1	2					2	m	(30g ZGP) 95:05 Dark gray, noncalcareous, strongly silicified graphitic quartzite is moderately PbZn mineralized in bands 0.2-0.5 cm wide tracing S <sub>0</sub> and S <sub>1</sub> . Locally unit hosts wisps and bands <1.0cm wide that lack strong silicification and host sporadic weak PbZn mineralization. Wisps and bands lacking in strong silicification contain a high phyllitic component and constitute 5% of interval. Rock is hard, strongly broken and has good recovery. Contacts are sharp and parallel S <sub>0</sub> . ESTIMATED grade is 3-5%
	31.1	2	32.1	1					30	±g	(8H:44 <sup>#</sup> ±i) 9.0:10:±tracc Dark gray to black, noncalcareous, graphitic phyllite is moderately silicified over the uppermost 15cm only. Unit hosts a 10cm band of moderately to strongly Zn mineralized Pb rich band at 31.9. Mineralized band contains very sharp contacts // S <sub>0</sub> . Phyllite also hosts trace wisps and bands <0.5cm of tan colored, noncalcareous metabasitic(?) with 0-tracc fuchsite. Rock is generally slightly soft, strongly broken and has good recovery. Upper contact is sharp and parallel S <sub>0</sub> , lower contact is crushed but appears sharp and parallel S <sub>0</sub> .

Code	From		To		Recov.			No.			Unit	Description
	10	14	16	20	22	24	26	28	30	34		
	32.1		33.1								3	<p><math>H \pm g \pm P_j</math> (<math>4^{**} \pm j</math>) 75:25</p> <p>light gray, noncalcareous, <math>P_j</math> foliated, strongly mineralized quartzite hosts <math>Pb+Zn \gg P_j</math>. Unit is strongly siliceous with moderate carbonaceous matter occurring sporadically above 33.0. Mineralization traces <math>S_2</math> fabric and is generally fine grained. Factual hosts 3 occurrences of strongly altered metabasite with <math>\pm</math> fuchsite. Metabasite is representative a single unit reoccurring in hole due to open (<math>D_3</math>) folds with axial planes subperpendicular core axis at 33.2 and 33.4. Metabasite occurs at 33.2-33.4, 33.1-33.2 (at fold nose and does not cross entire width of core) and at 33.5-33.6. Fold undistortedly contains <math>S_2</math>. All contacts are sharp and parallel <math>S_2</math>. Quartzite is hard, metabasite is moderately soft. Core is moderately broken with good recovery.</p> <p>Grade of quartzite is <math>&gt;15\%</math>, mixed with barren metabasite, unit should still contain <math>&gt;10\%</math> <math>Pb+Zn</math>.</p>
	33.7	A2	9								30	<p><math>\pm g</math></p> <p>Dark gray to black, noncalcareous phyllite is <math>P_j</math> foliated generally slightly soft, strongly broken and hosts 5-7% clotty and waxy <math>P_j</math>. Unit is slightly hard and slightly siliceous above 35.4 and very strongly broken, locally crushed below 37.8. Recovery is good above 37.8, poor below. Upper and lower contacts are sharp and parallel <math>S_2</math>.</p>

Code	From		To		Recov.	No.	Unit	Description		
	10	14	16	20					22	24
	42.1		44.1				39	(7m → 4m) 85:15 Dark gray to black, non-calcareous, graphitic phyllite is slightly to moderately soft, very strongly broken sporadically crushable. Phyllite hosts 3 dm scale bands of very dense Pb rich massive sulphides with 15-20% white clots 1-3mm in size. White clots very slightly react with 20% HCl when crushed - possibly barite with minor dolomite (?). Massive sulphide bands contain 60-70% pyrite and have wisps of Zn rich mineralization. Bands occur at 42.9-43.0, 43.8-43.9 and 44.5-44.65. Massive sulphide bands are very slightly soft and streak black. Recovery is poor above 43.3 - loss is crushed graphitic phyllite; recovery is good elsewhere. Massive sulphide bands are exactly as lower unit. All contacts are sharp and parallel to $S_{20}$ .		
	44.1		47.1				71	L ± H → 4L ± H (30) 98:02 Brassy yellow, very slightly reactive to 20% HCl when crushed, very dense massive sulphide unit hosts 10-15% white clots 1-2mm in dia. White clots are the weakly reactive components of the material; interpreted to be barite with minor dolomite component? White clots are moderately soft. Unit generally contains 60-70% Pb and hosts very weak PbZn mineralization. At 45.8-46.2 unit is very strongly mineralized with Zn. Unit is massive with irregular banding where strong Zn mineralization occurs. Unit contains a moderate graphitic phyllite component below		

Code	From	To	Recov.	No.	Unit	Description
1	10	14 16	20 22 24 26 28 30	34 35		46.3m. Subinterval with graphitic phyllite is generally crushed and contact relationship with mass. sulphides are unknown. Rock is generally moderately to slightly hard moderately broken and has good recovery above 46.3m, poor below. Upper contact is sharp and parallel $S_1$ , lower contact is crushed. Estimated grade is generally 2-3% (?), locally >20%.
	47.	48.			39	Dark gray to black, noncalcareous phyllite is strongly broken and hosts 3-5% clots, and disseminated py. Rock is slightly soft and has good recovery. Upper contact is crushed, lower contact is sharp and parallel $S_2$ .
	48.	50.4			44	$\#l \pm g \pm j$ (30P $\pm$ g $\pm$ z) 90:10 Tan to slightly brownish gray, noncalcareous unit is massive with a very weak $Ph$ fabric. Unit is sporadically silicified in clots and irregular bands of highly variable trends - possibly controlled by an unroofed $S_1$ fabric. Siliceous contacts are generally diffuse. Interval hosts 0 trace

Code	From	To	Recov.	No.	Unit	Description					
1	10	14	16	20	22	24	26	28	30	34	35
											1-2mm fuchsite clots. Unit hosts a single band of graphitic phyllite with very rare, very weak silicification and extremely rare wisps of Zn mineralization. Pyrite is common within graphitic unit. Graphitic unit is $S_2$ foliated occurs at 49.75-50.0, contacts are sharp and parallel $S_1$ . Rocks are variable in hardness from moderately hard to moderately soft. Rock is slightly broken, crushed to strongly broken at 50.1-50.4. Upper most contact is sharp and parallel $S_2$ lower contact is sharp and trends $236^\circ/10'$ wrt $S_2$
	50.4	51.1	41		30A	g 12w P $\pm$ Z N (44# $\pm$ i) 98:02 Dark gray to black, noncalcareous graphitic phyllite is moderately silicified and contains a well developed $S_2$ fabric defined by 15-20% 0.1-0.75cm quartz idiomorphic veinlets. Mineralization is very sporadic and occurs in 0.2-0.3cm bands parallel $S_1$ . Pyrite is common and is typically disseminated fine clots. Interval hosts clots/bands of altered metabasite parallel $S_1$ and containing trace clotty fuchsite. Rock is slightly hard, moderately broken and has good recovery. Upper contact is sharp and oriented $236^\circ/10'$ wrt $S_2$ . Lower contact is sharp and parallel $S_1$ . No measurement wrt $S_2$ possible. Estimated grade is $< 2\%$ .					

Code	From	To	Recov.	No.	Unit	Description					
1	10	14	16	20	22	24	26	28	30	34	35
	51.4	51.8			44	## ± j ± g Tan to light greenish buff noncalcareous, strongly altered metabasite is chloritic, massive with a weak $PS_2$ fabric and very rarely siliceous in cm scale irregular clots. Unit hosts 0-trace fuchsite. Rock is moderately soft, sporadically slightly hard, unbroken above 51.65 and crushed below. Recovery is good. Upper contact is sharp and parallel $S_1$ . Lower contact is crushed.					
	51.8	56.3			30	- Dark gray to black, noncalcareous, graphitic phyllite is slightly to moderately soft, strongly broken and is very rarely crushed. Unit is generally $PS_2$ foliated, locally $BS_2$ . Pyrite constitutes trace-1% at interval. Recovery is generally good. Upper contact is rough, lower contact is sharp and parallel $S_2$ .					
	56.3	57.5			44	## ± c ± g ± j Tan to light brownish buff, very weakly calcareous, $PS_2$ foliated unit hosts very sporadic clots, and strong silicified locals with both sharp and diffuse contacts - no particular trend observed. Fuchsite is very rare but occurs scattered throughout as 1-2mm clots. Rock is moderately soft, slightly broken and has good recovery. Upper and lower					

Code	From	To	Recov.	No.	Unit	Description
1	10	14 16	20	22 24 26 28	30 34	35
						contacts are sharp and parallel $S_2$ .
	57.5	61.5	C		A	L (60 g P ± v: 47 g) 63:35:02 Brassy yellow, noncalcareous, massive sulphide unit hosts 70-80% pyrite and little to no Pb+Zn mineralization. Unit is massive, hard and supports 35% medium to light gray irregular quartz vein matter with a moderate graphitic component giving the quartz a smoky gray color when wet. Veins vary from 2-3cm irregular veinlets to 70 cm bands. Veins most very irregular stretched and wavy. Py clots and chloritic phyllite veins. Vein quartz dominants: 57.6-57.7, 58.1-58.4, 59.6-60.3. Vein contacts are sharp but very irregular. Rock is hard, slightly broken and has good recovery. Interval has sharp upper and lower contacts. // $S_2$ Estimated grade is < 1% Pb+Zn
	61.0	65.7			30	±g ±2 ±G L → 4L Dark gray to black, noncalcareous, moderately to slightly silicified and generally moderately mineralized where most siliceous. Mineralization occurs in 0.5cm bands // $S_2$ . In general unit contains moderate to high phyllitic component. Rock is slightly to moderately hard and very strong! broken. Recovery is

DDH

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914-10

## CURRAGH RESOURCES INC.

## Lithologic Log

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Date: Mar '91

Logged

By: J. Zbrunoff

Code	From	To	Recov.	No.	Unit	Description
1	10	14 16	20 22 24 26 28 30	34 35		very poor above 64.0 and fair below. Upper and lower contacts are sharp and parallel $S_2$ . Estimated grade is 2-3%
	67.5	66.9			3A ± # k (47) 95:05	Dark gray to black, non-calcareous graphitic phyllite is strongly broken, sporadically crushed. Unit is slightly to moderately altered below 66.0 noted by sporadic weak chloritic alteration and generally bleaching increasing down hole. Unit hosts a 5cm band of chloritic phyllite (50a) at 65.7. Rock is slightly soft, and has fair to good recovery. Upper contact is sharp and parallel $S_2$ . Lower contact is sharp, noted by 1cm gouge band and trends $165^\circ/74'$ wrt $S_2$ .
	66.9	69.1			2D, ll (44# l) 60:40	Medium to light greenish gray non-calcareous chloritized phyllite is $CS_2 \rightarrow PS_2$ foliated, slightly soft and slightly broken. Rock contains medium to medium dark grayish green metabasite(?) which is non-calcareous $PS_2$ sporadically weakly $CS_2$ foliated. Contacts are sharp and parallel $S_2$ . Recovery is good.





Code	From	To	Feature	SYM	S <sub>2</sub> 3		S <sub>1</sub>		S <sub>2</sub>		Description			
					Dip	Direct.	Dip	Direct.	Dip	Direct.				
1	10	14	16	20	22	24	26	28	32	34	38	40	44	
		16.8	PS2									80		
		21.8	PS2									63		
		30.4	PS2									48		
		33.2												D <sub>3</sub> fold nose 1 ca.
		33.7												" " " " "
		35.9	PS2									40		
		44.3	PS2									49		
		49.9	CS2Z						114	17	100	76		
		53.1	CS2S						120	20	310	75		
		60.7	PS2									47		
		68.4	PS2									62		
		71.8	PS2									50		
														E0H



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## GEOTECHNICAL LOG

DDH# 91-G-10 E

Units: Feet / Metres      Date: MAR. 91

Logged By: R. WRIGHT

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Run (Length)	TCR (Length)	ROD (Length)	Strength	Degree Breakage	Weathering Alteration	FRACTURES												CORE SIZE	COMMENTS
						0-30				30-65				65-90					
						No	Rough	Alt	Type	No	Rough	Alt	Type	No	Rough	Alt	Type		
CASING TO 9.3																			
9.6																			
OVERBURDEN																			
12.2																			
OVERBURDEN																			
15.9	1.4	0																	
18.9	2.8	0.2																	
20.4	1.2	0																	
22.0	1.4	0																	
23.8	0.5	0																	
25.0	0.1	0																MISLATCH	
26.5	0.6	0																	
28.0	0.3	0																	
29.6	0.6	0																	
30.5	0.8	0.1																	
31.1	0.4	0																	
32.5	1.3	0.2																	
34.1	1.4	0.3																	
35.1	0.9	0.1																	
36.6	1.4	0.15																	
38.1	1.2	0																	
39.3	0.3	0																	
40.2	0.3	0																	
41.5	0.7	0																	
43.3	1.0	0.2																	
44.2	0.8	0.1																	
45.7	1.5	0.5																	
47.1	1.2	0.2																	
48.8	1.7	0.8																	
51.8	3.2	1.8																	
53.3	1.5	0.4																	
CONT																			

