DDH 916-19 (T) CURRAGH RESOURCES INC. 004113 Page 3 of 21

Lithologic Log Date: June '91 Logged By: B Zbeetnoff

From	To	Recov.	No.	Unit	Description
10 14	16 20	22 24	26 28	30 34	35
10.0	26.0			40	$\ell \pm L$ (72) 98:02 Medium green, moderately calcareous $CS_2 \rightarrow PS_2$ foliated phyllite is moderately chloritized throughout limonite is common on fracture surfaces above 10.7. Gouge occurs in 1.0-15cm bands generally //s. Recovery is generally good fair to poor near gouge. Lower contact is sharp, //s, and marked by 5cm of crushed rock & gouge
26.0	28.7			20	$g \pm \rightarrow 30$ (74→72) 90:10 Medium dark gray, non-calcareous, common PS_2 locally $CS_2 \rightarrow PS_2$ foliated phyllite is weakly locally moderately cataclastic. Unit is strongly broken, sporadically crushed in 10-20cm bands with minor gouge associated. Upper and lower contacts are //s, and marked by crushed rock and gouge.
28.7	31.5			74	$\rightarrow 72 \rightarrow 20_g$ As above unit but generally crushed and gouge common. No trend or structural disruption available
31.5	39.8			3	(47 $ls \pm g$ $\pm \rightarrow$ 54 $\pm g$) 60:40 Light gray, non-calcareous, weakly mineralized cataclastic quartzite hosts 3-7% pyrite in anastomosing veins. Intensity is high and complexly mixed with an altered component. Altered bands

DDH 91G-19

CURRAGH RESOURCES INC.

Lithologic Log

Date: Jun. '91 Logged By: J. Beckett

From	To	Recov.	No.	Unit	Description
					occur as wisps and bands upto 1.0m wide. Alteration includes sericite and chlorite which varies from very weak to strong. Moderate to strong alteration is most common. Internal contacts are sharp, often // S, rarely in minor fault contacts. Faults are represented by 1-2cm gouge slips of variable attitude but generally 10-25° w.r.t C.A. Upper and lower contacts are sharp, gouge and // S.
39.8	A1a.1			20	±g Medium grey, non-calcareous PS, foliated phyllite is sporadically weakly graphitic. Upper contact is sharp and // S, lower contact is gradational over 2cm with wisps and narrow bands of moderately graphitic phyllite becoming more dominant downhole.
A1a.1	42.9			30	±P (72) 55:45 Dark grey locally black, non-calcareous graphitic phyllite is PS foliated. Interval consists of gouge and crushed graphitic phyllite at 42.0-42.7. No orientation of gouge fabric could be possible. Upper contact is gradational with an increase in graphite downhole. Lower contact is sharp, crushed. Graphitic phyllite hosts 0-trace %

DDH 91G-19 (2 8)

CURRAGH RESOURCES INC.
Lithologic Log

Date: June '91 Logged By: T. Sheehan

Code	From	To	Recov.	No.	Unit	Description
	42.9	44.5			39	±P (47) 85:15 Dark gray to black, non-calcareous DS-fulvated graphitic phyllite hosts 0-1% pyrite. Interval contains 15% non-calcareous unit 47 wisps and bands tracing S1 and S2. Internal and lower contacts are sharp. Upper contact is crushed. Unit 47 commonly exists as 1.0-5.0cm bands, less commonly as wisps.
	44.5	46.1			39	qP Dark gray to black, non-calcareous, moderately silicified graphitic phyllite hosts 2-3% pyrite. Rock is moderately hard and moderately broken. Upper contact is sharp, //S2 and marked by a 1cm unit 47 band of upper cont. Lower contact is sharp and marked by an irregular 10cm quartz vein. No grade.
	46.1	48.0			30	qP→2 (2PZ→30qPZ) 60:40 Dark gray to black, non-calcareous, moderately locally strongly silicified graphitic phyllite hosts 2-3% pyrite. Strong silicification and very weak generalized Pb+Zn mineralization 46.5-47.2. Rock is generally moderately hard to hard, and generally strongly to moderately broken. Upper and lower contacts are sharp and //S2. Estimated grade is <1%.

DDH 916-19

CURRAGH RESOURCES INC.

Lithologic Log

Date: June '91 Logged By: T. Bedard

From	To	Recov.	No.	Unit	Description
48.0	59.9			30	±P (20g°47) 80-20: trace. Medium to dark gray, locally medium gray, non-calcareous graphitic phyllite hosts 0-1% pyrite. Interval supports minor 1-3.0cm bands of Unit 47 over the core 20cm. Rock is moderately to strongly foliated. Upper contact is sharp at 11°. Lower contact is gradational over 1.0m with weakly graphitic bands of non calcareous phyllite becoming more dominant down hole. Erosional contact is marked at the base of a 40cm barren Unit.
50.9	54.9			20	Medium gray, non-calcareous, PS, foliated phyllite is moderately broken. Upper contact is sharp, 11°, and marked at the base of a 90cm barren Unit. Lower contact is gradational over 2cm with an increase in graphitic rich bands down hole.
54.9	56.0			30	c ±P Dark gray to black PS, foliated graphitic phyllite hosts 35-40% cm scale bands of moderately to strongly graphitic phyllite. Upper and lower contacts are gradational with graphitic rich bands becoming dominant towards.

DDH 916-19

CURRAGH RESOURCES INC.

Lithologic Log

Date: June '91 Logged By: T. Beckwell

Code	From	To	Recov.	No.	Unit	Description
	561.0	162.4			40	±l ±w Medium gray, variably calcareous to dolomitic CS$_2$ to PS$_2$ foliated phyllite is moderately to strongly broken. Unit is strongly to moderately calcareous over upper 1.5 meters then grades into very weakly calcareous to weakly dolomitic downhole. Vanguard fm/mt. Mye fm contact may exist within lower 2-3 meters although CS$_2$ → PS$_2$ fabrics are consistent throughout interval. Unit is very weakly chloritic throughout giving rock a slight greenish grey colour when wet. Upper contact is gradational with a loss in graphite down h.l. Lower contact is sharp marked by a fault zone trending 000/30 wrt S$_2$.
	162.4	165.5			40	w ±c → 74 (72) 80:20 Medium grey, very weakly calcareous to weakly dolomitic phyllite hosts a strong shear fabric that is generally well healed and trends ~ 25° wrt C.A. Contorted S$_2$ does not allow for an accurate measurement wrt S$_2$ dip direction beyond 325-045°. Unit hosts 15-20% discontinuous shear related dolomite and vein fracture fillings. Interval consists of gouge and crushed rock below 64.1. Upper contact trends at 000/30 wrt S$_2$. Lower cont. is crushed

DDH 91G-19 (2 8)

CURRAGH RESOURCES INC.

Lithologic Log

Date: June '91 Logged By: S. Zbeetnoff

Code	From	To	Recov.	No.	Unit	Description
	10 14	16 20	22 24	26 28	30 34	35
	65.5	71.7			49	w:c:g → 74 (72) 90:10 Medium dark gray very weakly calcareous to weakly dolomitic PS locally CS_2 -related phyllite. Unit is very strongly bxtxx. $//S_2$ to commonly crushed. Unit is very slightly locally slightly graphitic. Upper contact is ~~crushed~~ lower contact is marked by an 80cm gouge with very poor recovery.
	71.7	71.9			39	
						Dark gray to black, non-calcareous graphitic phyllite contains a strong well developed shear fabric trending 25 wrt C.A. Upper contact is marked by a 80cm gouge band of upper unit. Gouge recovery is very poor (10cm). Lower contact is sharp and irregular.
	71.9	73.5			7	→ 5 (2:30) 70:30:trace Purplish red, locally brassy yellow, non-calcareous massive sulphide unit appears weakly to moderately banded and hosts 25-30% irregular wisps, clots, and narrow bands of graphitic quartzite and rare clots of graphitic phyllite and very rare clots of altered metabasite. Massive sulphides are generally strongly mineralized and hosts 20-60% pyrite. Strongly mineralized locals are peppered with 15-20% 1-2mm pyrite grains. Upper contact is

DDH 91G-19

CURRAGH RESOURCES INC.
Lithologic Log

Date: June '91 Logged By: S. Zbeda

From	To	Recov.	No.	Unit	Description
					is sharp and irregular. Lower contact is sharp and // S_2. Estimated is 10-12%.
73.5	76.1			2	± S_3 ± → 3_S Dark gray to black locally white to light gray, non-calcareous graphitic phyllite is locally bleached. Sericitic is rare and occurs as wisps along S_2. Bleached intervals contain moderate sericitic alteration along S_2. Intervals hosts 20-30% pyrite and moderate fine-grained mineralization throughout. Upper contact is sharp and // S_2. Lower contact is marked by a fault trending ~ 000/15 with S_2. Estimated grade ~ 7%
76.1	78.7			20	± g ± P → 74 → 72 Medium gray locally medium dark gray, non-calcareous PS, foliated phyllite is crushed with sporadic gouge to very strongly broken throughout. Variations in graphitic do not exceed a weak to moderate component. Pyrite is very sporadic and never exceeds 1%. Recovery is fair to good. Upper contact trends ~ 000/15 with S_2. Lower contact is gradational over 10cm with graphite becoming common down hole.

From	To	Recov.	No.	Unit	Description
78.7	81.0			39	Pc → 74 → 72 Dark gray to black, commonly weakly calcareous sporadically non-calcareous graphitic phyllite is generally crushed with sporadic gouge. Unit hosts sporadic pyrite upto 1%. Upper contact is gradational over 10cm with graphite abundant down hole. Lower contact is shear bound and trends ~000/20° wrt S2
81.0	84.6			2	± → 30g PPZ Dark gray to black, non-calcareous, strongly silicious graphitic quartzite typically hosts 0.5 - 5.0cm bands of high pyrite content ± sph separated by 0.5 - 5.0cm bands of strongly silicous graphitic quartzite to graphic phyllite barren of all sulphides. Contact trend // S_1 and S_2. Pb+Zn mineralization is sporadic and is rarely strongly developed. Upper contact is sharp, shear related and trends @ ~000/20 wrt S_2. Lower contact is sharp and // S_2. Estimated grade is 3.4 %.
84.6	85.6			44	# il Strongly altered leuchite-bearing non calcareous metabasite contains sharp contacts // S_2.

DDH 916-19

CURRAGH RESOURCES INC.

Lithologic Log

Date: June '91 Logged By: S. Beckett

From	To	Recov.	No.	Unit	Description
85.6	86.9			2	±s ± → 3 Dark gray to medium gray, non-calcareous bleached graphitic phyllite is moderately to strongly mineralized and hosts 0-3% pyrite. Sericite is sporadic and is limited to coatings on S_2 surfaces. Upper contact is sharp and //S_2. Lower contact is gradational over 15cm which sericitically altered phyllite becoming more abundant over siliceous rock down hole. Estimated grade is 7-10%
86.9	88.3			2	ss → 3ss → 54qPZ Bleached light gray, non-calcareous graphitic phyllite contains a moderate sericite component. Sericite occurs as wisps and bands upto 0.5cm barren of sulphides and silicification. Upper and lower contacts are gradational with less sericite in adjacent units. Estimated grade is 2-3%.
88.3	91.4			2	±ss → 3ss ± → 54qPZ Bleached light gray, non-calcareous moderately mineralized graphitic quartzite contains sporadic strong sericitic alteration occuring in 0.1-2.0cm bands //S_2. Weak chloritic alteration is support with sericite. Sericite alteration lacks even traces

DDH 91649 (2 8)

CURRAGH RESOURCES INC.

Lithologic Log

Date: June '91 Logged By: J Zbeda-H

Code	From	To	Recov.	No.	Unit	Description
1	10 14	16 20	22 24	26 28	30 34	35
						of silicification. Upper contact is gradational with an increase in sericite dolomite upholes. Lower contact is sharp and // S_2. Estimated grade is 5%.
	91.4	92.7			5.4	± gPZ
						Light gray/pl green non calcareous unit has a very high sericite ± chlorite component. Rare bands (≤1.0 cm) of silicification and Py ± Pb+Zn occur with contacts sharp and // S_2. Upper and lower contacts are sharp // S_2 and mark the limits of abundant sericite & chlorite alteration. Estimated grade is 1%.
	92.7	96.3			2	± s ± → 3 ± s ± → 54
						light gray, locally dark gray, non-calcareous graphitic quartzite is commonly bleached. Unit hosts sporadic sericite ± chlorite alteration occuring in 0.5-2.0 cm bands void of silica flooding, subhedral and // S_2. Quartzite is typically moderately mineralized with local occurances of well developed ribbon banding. Upper and lower contacts are sharp and // S_2. Estimated grade is 5-7%.

DDH 91G19 (2 8)

CURRAGH RESOURCES INC.
Lithologic Log

Date: June '91 Logged By: E. Zbeda

From	To	Recov.	No.	Unit	Description
96.3	97.0			A7	±s ℓ (6OPz: 94" j) 98:02: trace Buff-brown non-calcareous massive PJ2 foliated unit host sporadic clotty quartz veins with traces of Py and lesser amounts of Pb-Zn mineralization. Rock is moderately soft. Upper and lower contacts are sharp and // s. Wisps of Tachylite-bearing matabasite are rare. Weak sericite ± chlorite alteration are adjacent the blebs. No hope any detectable Pb-Zn.
97.0	98.5			2	± s → 3±s Bleached light gray, non-calcareous graphitic quartzite is moderately mineralized and hosts sporadic wisps and beds upto 1.5cm of moderate sericite alteration. Upper and lower contacts are sharp and // s. Estimated grade is 7%.
98.5	100.4			54	(2ssP±z) 98:02 light grey to slightly greyish green altered phyllite contains a very high sericite component with ± chlorite. Interval hosts rare wisps and stringers of highly bleached graphitic quartzite over the lowest 15cm. Upper and lower contacts are sharp and // s. No grade at all.

DDH 916-17

CURRAGH RESOURCES INC.

Lithologic Log

Date: June '91 Logged By: S. Sheehan

From	To	Recov.	No.	Unit	Description
100.4	110.0			2	Dark gray to black, non-calcareous graphitic quartzite is strongly mineralized and hosts 15-20% py. Fine Ribbon banding is well developed. Upper contact is sharp and ~45°. Estimated grade is 1.5%.
					EOH @ 110.0

DDH 91G-19 (T) CURRAGH RESOURCES INC. Page 15

Logged by J.Z.

ASSAY LOG (SAMPLER'S COPY)

Date June '91 Sampled by

CODE	FROM	TO	SAMPLE	INTR.	REC (m)	UNIT	DESCRIPTION
	0.0	31.5					WASTE
	31.5	33.0	64951		1.1	47	(2->3)
	33.0	34.8	952		1.8	2	->3 (47)
	34.8	38.1	953		3.0	2	->3 (47)
	38.1	39.8	954		1.7	47	(2->3)
	39.8	46.5					WASTE
	46.5	47.2	955		0.7	2	
	47.2	71.9					WASTE
	71.9	73.5	956		1.6	7	->5 (2
	73.5	76.1	957		2.6	2	
	76.1	81.0					WASTE
	81.0	84.6	958		3.6	2	-> 30gg ±PZ
	84.6	85.6					WASTE (44)
	85.6	86.9	959		1.3	2	±->3
	86.9	88.3	960		1.2	2	ss ->3ss ->54g PZ
	88.3	89.7	961		1.5	2	±ss ->3ss ±->54g PZ
	89.7	91.4	962		1.7	2	±ss ->3ss ±->54g PZ
	91.4	92.7	963		1.2	54	±g PZ
	92.7	94.0	964		1.3	2	±s ±->3±s ±->54g PZ
	94.0	96.3	965		2.0	2	±s ±->3±s ±->54g PZ
	96.3	97.0	966		0.7	47	±sl (60PZ: 44±s) 98:02 [illegible]
	97.0	98.5	967		1.5	2	±s -> 3±s
	98.5	100.4	968		1.4	54	(2ssP±z) 98:02 [illegible]
	100.4	102.4	969		2.0	2	
	102.4	105.5	970		3.0	2	
	105.5	108.2	971		2.7	2	
	108.2	110.0	64972		1.8	2	
							EOH @ 110.0m

DDH 91-49

CURRAGH RESOURCES INC.
Structural Log

Date: Jan-'91 Logged By: [illegible]

Code	From	To	Feature	Sym	S_0/L_3 Dip	S_0/L_3 Direct.	S_1 Dip	S_1 Direct.	S_2 Dip	S_2 Direct	Description
		2.8	CS2	S		141	15	305	68		
		12.9	PS2						77		
		15.5	CS2	S		116	28	318	62		
		22.7	CS2	Z		114	24	100	72		
		27.0	PS2			111			65		
		34.5	PS2						59		
		37.6	PS2						61		
		43.7	PS2			030			79		
		49.3	PS2			007			62		
		54.9	PS2			057			78		
		57.3	CS2	Z			26	143	68		
		68.0	PS2			120			80		
		70.7	PS2			137			74		
		74.7	PS2			162			54		
		82.9	PS2						49		
		87.3	PS2						60		
		91.4	CS2	S		160	30	350	82		
		97.9	PS2						74		
		104.2	CS2	S			14	340	50		
		108.5	CS2	S			20	054	64		
											Edit @ [illegible]

DDH 916-19 (2 8)

CURRAGH RESOURCES INC.
Fault Log

Date: June '91 Logged By: J. Beckett

Code	FROM	TO (At)	Feature	REC.	UPPER Dip Direct.	INTERNAL Dip Direct.	LOWER Dip Direct	Description
1	10 14	16 20	22 24	26	28 32	34 38	40 44	
	161.9	191.6	B3					Rare gouge, 11 S2
	91.2	101.7	B3G					11 S2
	231.5	251.2	R2G					
	251.2	261.1	B2G					
	261.1	271.4	R2					
	271.1	281.3	G1					
	281.3	311.5	R3G					
	311.5	331.0	B2G			2D		
	411.0	A2.0	B2					
	A2.0	421.7	G3					
	421.7	A16.8	B2					
	461.3	501.3	B3					11 S2 ± gouge 11 S2
	521.2	581.0	B2					
	581.8	611.5	B3					
	611.5	621.4	G1					
	621.4	641.2	S2G		30 OPP	2D		Rare gouge
	641.2	661.1	G3R					
	661.1	701.9	B3R					
	701.9	711.7	G3					11 S2
	711.7	761.1	A1					
	761.1	761.6	G3			15		
	761.6	810.7	R3G					
	810.7	811.0	G3				2D	
								E.O.H. @ 110.0

CURRAGH RESOURCES INC.

GEOTECHNICAL LOG

DDH# 91G-19

Units: Feet / Metres Date: June '91 Logged By: J. Zbcdc Page 18 of 21

Run (Length)	TCR (Length)	RQD (Length)	Strength	Degree Breakage	Weathering Alteration	FRACTURES 0-30 No	0-30 Rough	0-30 Alt	0-30 Type	30-65 No	30-65 Rough	30-65 Alt	30-65 Type	65-90 No	65-90 Rough	65-90 Alt	65-90 Type	CORE SIZE	COMMENTS
2.2																		NW	CASING
3.1	1.1	0																	
4.0	0.9	0																	
4.6	0.4	0																	
5.2	0.5	0																	
6.4	1.1	0.1																	
7.6	1.1	0																	
8.5	0.3	0																	
9.1	0.3	0																	rubble
9.6	0.4	0																	
9.9	0.3	0																	
10.4	0.3	0																	
10.7	0.2	0																	
11.1	0.2	0																	
11.9	0.2	0																	
13.3	1.3	0																	± gouge
14.3	1.0	0																	
15.2	0.5	0																	
16.8	1.5	0.3																	
18.0	1.2	0.1																	
18.6	0.6	0.1																	
19.5	0.6	0.1																	
21.0	1.5	0.1																	
23.2	2.1	0.4																	
23.8	0.5	0.2																	
24.7	0.3	0																	
25.2	0.3	0																	
26.7	1.4	0																V	

CURRAGH RESOURCES INC.

GEOTECHNICAL LOG

DDH# CIIG-19

Units: Feet / Metres (8-6.7) Date: June '91 Logged By: J. Zbeda Page 19 of

Run (Length)	TCR (Length)	RQD (Length)	Strength	Degree Breakage	Weathering Alteration	FRACTURES 0-30 No	0-30 Rough	0-30 Alt	0-30 Type	30-65 No	30-65 Rough	30-65 Alt	30-65 Type	65-90 No	65-90 Rough	65-90 Alt	65-90 Type	CORE SIZE	COMMENTS
27.4	0.7	0																NQ	
28.4	0.7	0																	
29.0	0.5	0																	
29.6	0.5	0																	
30.2	0.1	0																	
30.8	0.1	0																	
31.9	0.5	0																	
32.9	0.8	0																	
33.8	0.9	0.1																	
35.4	1.6	0.3																	
36.9	1.4	0.1																	
38.4	1.4	0.2																	
39.9	1.5	0.5																	
41.5	1.3	0.3																	
42.7	1.2	0																	
44.2	1.5	0.1																	
45.9	1.5	0.6																	
47.6	1.6	0.4																	
49.1	1.4	0																	
50.6	1.4	0.2																	
52.1	1.3	0.6																	
53.6	1.5	0.8																	
55.2	1.6	0.6																	
56.7	1.5	0.3																	
58.2	1.3	0.3																	
61.3	1.5	0																	
62.8	1.5	0.3																	
64.3	1.4	0.5																V	

CURRAGH RESOURCES INC.

GEOTECHNICAL LOG

DDH# 916-19

Units: Feet / Metres (64.3) Date: June '91 Logged By: J. Zbeetnoff Page 20 of 21

Run (Length)	TCR (Length)	RQD (Length)	Strength	Degree Breakage	Weathering Alteration	FRACTURES 0-30 No	0-30 Rough	0-30 Alt	0-30 Type	30-65 No	30-65 Rough	30-65 Alt	30-65 Type	65-90 No	65-90 Rough	65-90 Alt	65-90 Type	CORE SIZE	COMMENTS
65.5	0.2	0																NQ	
66.1	0.2	0																	
67.1	0.4	0																	
68.3	0.6	0																	
69.5	1.1	0																	
70.4	0.9	0																	
71.0	0.6	0																	
72.5	0.9	0.5																	
73.5	1.0	0.9																	
75.0	1.5	1.1																	
76.5	1.4	1.0																	
77.4	0.9	0.1																	
78.3	0.4	0																	
78.9	1.2	0																	
79.6	0.4	0																	
80.6	1.0	0																	
82.1	1.5	0.5																	
83.8	1.6	0.8																	
85.3	1.5	0.8																	
86.6	1.3	0.1																	
87.3	1.2	0.2																	
88.7	0.9	0.5																	
90.2	1.5	1.0																	
91.8	1.6	1.0																	
93.2	1.4	1.0																	
94.8	1.6	1.0																	
96.3	1.5	0.5																	
97.8	1.5	0.6																V	

CURRAGH RESOURCES INC.

GEOTECHNICAL LOG

DDH# 916-19

Units: Feet / Metres

Date: June '11

Logged By: J. Zhou

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97.8

Run (Length)	TCR (Length)	RQD (Length)	Strength	Degree Breakage	Weathering Alteration	FRACTURES 0-30 No	0-30 Rough	0-30 Alt	0-30 Type	30-65 No	30-65 Rough	30-65 Alt	30-65 Type	65-90 No	65-90 Rough	65-90 Alt	65-90 Type	CORE SIZE	COMMENTS
99.4	1.4	0.9																	
100.9	1.4	0.2																NQ	
102.4	1.5	0.6																	
103.9	1.5	0.5																	
105.5	1.5	0.3																	
106.7	1.2	0.7																	
108.2	1.5	0.7																	
109.7	1.5	0.7																	
110.0	0.3	0.3																	EOH @ 110.0m