DDH 91G-38 (PP)

CURRAGH RESOURCES INC.

Lithologic Log

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Date: Apr. '91 Logged By: J. Zbetnoff

Code	From	To	Recov.	No.	Unit	Description
1	10 14	16 20	22 24	26 28	30 34	35
	0.0	21.6			84	CASING
	21.6	42.1			86	%B Boulders & clay - very poor recovery.
	42.1	43.1			5	## → 7 ##
						Yellow brown sand is non-calcareous and hosts extremely friable sandy blocks of massive sulphide. Unit is strongly suspect to be refractory. Recovery is very poor, upper and lower contacts are sand buried and no orientation is available. Oxidation does not appear to exist - no limonite - no tarnish other than very slight black color developed along margins of sandy blocks.
						Uncertain grade.
	43.1	44.7			2	PP (4→5L) 55:45 L
						Dark gray to black and brassy yellow unit is non-calcareous and hosts weak Pb+Zn mineralization. Unit can be considered graphitic quartzite which hosts 45-50% 1.0-5.0cm bands of generally siliceous semimassive sulphides to pyritic massive sulphides bands; or, semimassive to massive sulphides hosting 45-50% 1.0-3.0cm bands of graphitic quartzite.? Take your pick! Bands are sharp and oriented 115°. Interval is hard strongly broken and has good recovery. Upper contact is marked by sandy massive sulphides uphole and no orientation is available. Lower contact is sharp, parallel S2 and noted by a block of semimassive to massive sulphide bands downhole. Estimated grade is 1-2%.

DDH 916-38

CURRAGH RESOURCES INC.

Lithologic Log

Date: Apr '91 Logged By: J Zbeetnoff

Code	From	To	Recov.	No.	Unit	Description
1	10 14	16 20	22 24	26 28	30 34	35
	44.7	49.5			2+	±→ 30gg 22PG H Dark gray to black, non-calcareous, strongly siliceous, strongly mineralized graphitic quartzite contains a localized minor phyllitic component. Ribbon banding is generally well developed. Pb+Zn mineralization trend with S and G and occurs as bands 0.1-1.0cm wide. Rock is very hard, strongly to very strongly broken and has good recovery. Upper and lower contacts are sharp with upper contact ∥ S_0. Lower contact is marked by an irregular quartz vein at lower unit. Estimated grade is 15-20%.
	49.5	51.0			2	(60ZGP) 70:30 M→H Dark gray to black, non-calcareous graphitic quartzite hosts 30-35% milky white irregular quartz veins and clots throughout. Vein hosts no detectable carbonate but does host moderate remobilized Pb+Zn mineralization. Banding within quartzite is disrupted by veins and ~~cl~~ clots. Rock is very hard moderately mineralized throughout, and is generally strongly broken with good recovery. Upper contact is sharp and marked by an irregular quartz vein. Lower contact is sharp and parallel S_0

DDH 916-38

CURRAGH RESOURCES INC.

Lithologic Log

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Date: Apr '91 Logged By: S. Zbetnoff

Code	From	To	Recov.	No.	Unit	Description
1	10 14	16 20	22 24	26 28	30 34	35
	51.0	55.0			5	±#cL ±c (44## jL ± → 72) 85:15 Brassy yellow sporadically weakly calcareous often with associated porous nature and sporadic limonite development commonly coating fractures. Limonite development is weak and sporadic. An estimated 60% of unit is of the porous, calcareous and possibly refractory. Porous intervals are very slightly rarely moderately friable into sand. Interval is crudely banded and locally displays a weak healed brecciated texture. Interval hosts two bands of strongly altered, weakly limonitic, noncalcareous, fuchsite-bearing metabasalt at 53.2-53.3 and 53.9-54.2. Metabasalt contacts are sharp and // banding (S_2?). Massive sulphides are slightly hard locally slightly friable. Unit is strongly broken and has good recovery. Upper and lower contacts are sharp and parallel S_2 (banding). Grade is difficult to estimate and may vary from 1-10%.
	55.0	57.9			7	±L (5±# c : 44## jc) 75:25:trace H Light grayish brown, non-calcareous, strongly baritic well banded moderately mineralized unit hosts 25-30% 10-25cm bands of pyritic massive sulphides. Pyritic intervals are commonly slightly porous, very weakly calcareous and very slightly tend to be friable into sandy material, and may locally be refractory. At 55.4-55.55 pyritic massive sulphides are

DDH 916-38 (2 8)

CURRAGH RESOURCES INC.

Lithologic Log

Date: Apr '91 Logged By: S. Zsefalvi

Code	From	To	Recov.	No.	Unit	Description
1	10 14	16 20	22 24	26 28	30 34	35
						lightly coated with limonite on fractures. Contacts with pyritic and barite massive sulphides are sharp and parallel banding. Interval hosts trace - 1% strongly altered, weakly calcareous metabasalt bands < 1.0cm wide. Limonite is very rare and occurs as weak to moderate coatings on fracture surfaces. Interval is slightly hard, moderately broken and has good recovery. Upper and lower contacts are sharp and parallel banding (S_0?).
	57.9	59.0			5	±c ±@ (7±@ 45° 44##) 85:15:trace
						Brassy yellow, locally light gray/tan brown, very weakly calcareous pyritic massive sulphides contain 70-80% pyrite and hosts 10-15% baritic massive sulphides occurring in 2-3cm bands // banding. Strongly altered, non-calcareous, fuchsitic metabasalt wisps/clots and bands are rare and do not exceed 1cm in width. Both pyritic and baritic massive sulphides are locally porous with <1mm pore spaces. Rock is slightly hard, moderately broken; locals which are porous are slightly more broken. Recovery is good throughout. Upper and lower contacts are sharp and // banding (S_0?).
	59.0	61.6			7	±c ±@ →5 (5→74) 90:10
						Yellowish brown, non-calcareous, locally weakly to moderately calcareous baritic massive sulphides host 0-15% 1.5-2.0cm

DDH 91G-38 (2 8)

CURRAGH RESOURCES INC.
Lithologic Log

Date: Apr '91 Logged By: J. Sedman

Code	From	To	Recov.	No.	Unit	Description
1	10 14	16 20	22 24	26 28	30 34	35
						irregular and discontinuous clotts of calcite and 1.0cm veins of calcite. Unit contains 40-50% pyrite and 20% clotts and breccia fragments of pyritic massive sulphides. Breccia is well lithified with a fine grained slightly porous sporadically aphanitic black matrix. Breccia is matrix supported, locally fragment supported. Interval hosts a porous and slightly permeable band at 59.0-59.15. Interval is slightly broken slightly broken and has good recovery. Upper contact is sharp and parallel banding (5°). Lower contact is sharp and irregular - possibly related to well lithified breccia.
						Estimated grade is 10-12%.
	61.6	62.1			5	±c
						Brassy yellow, generally fine crystalline massive pyritic sulphides are generally massive and texturless. Unit contains ±80% pyrite. Rock is slightly hard, moderately broken and has good recovery. Unit is sporadically weakly to moderately calcareous over the lowest 15cm. Upper contact is sharp and irregular, lower contact is also sharp and irregular but is undoubtly controlled by the underlying well lithified breccia.

DDH 91G-38 (2 8)

CURRAGH RESOURCES INC.

Lithologic Log

Date: Apr '91 Logged By: J. Zbeetnoff

Code	From	To	Recov.	No.	Unit	Description
1	10 14	16 20	22 24	26 28	30 34	35
	62.10	62.8			7	cc ±c (5cc → 74) 60:40
						Brownish yellow and brassy yellow, strongly to very strongly calcareous unit is moderately barite and hosts 40% pyritic massive sulphides occurring as fragments in a well healed breccia. Matrix of breccia is slightly to highly porous occassionally very dark rapidly black. Unit host scattered calcite clots from 3mm to 1.5x 4cm. Clotts are independent of banding. Banding is fairly well formed and is crossed by breccia. Rock is slightly hard, moderated, broken and has good recovery. Upper contact is sharp and irregular. Lower contact is sharp, parallel banding and noted as a loss in calcite content and a highly porous permeable and friable band of lower unit
						Estimated grade is 7-10%.
	62.8	65.3			7	±c ±e (5 ±c → 74)
						Medium brownish gray, generally non-calcareous baritic massive sulphides are typically well banded. Interval hosts a 25cm pyritic massive sulphide band at 64.1 which is generally non-calcareous and displays a well healed breccia texture. Pyritic sulphides contain sharp contacts // banding in baritic units Both baritic and pyritic sulphides are sporadically calcareous with calcite generally occuring in irregular discontinuous fractures, occassionally as disseminated trends resembling fractures but not visible with reaction to acid. Interval contains patchy clots of highly porous, highly permeable and friable rock at 62.8 - 62.95. Rock is generally slightly hard, slightly

DDH 91-38 (2 8)

CURRAGH RESOURCES INC.
Lithologic Log

Date: Apr '91 Logged By: B. Zsedenyi

Code	From	To	Recov.	No.	Unit	Description
1	10 14	16 20	22 24	26 28	30 34	35
						broken and has good recovery. Upper and lower contacts are sharp and // banding (S_1).
						?Inferred grade is 15-20%
	65.3	65.9			52	##±P ZG N
						White and sporadically light brown, noncalcareous intensely silicified to clay (?). Clay is slightly recrystallized and hosts wisps and clasts of unit 52 near upper contact. Unit 52 hosts sporadic specks of pyrite and very rare clots of oxidized (6/unit) Pb+Zn. Rock is very silt, very strongly broken, locally crushed and has good recovery. Upper contact is very sharp, and parallel S_1 and banding of upper unit. Lower contact is sharp, irregular and marked by quartz vein of lower unit.
						No grade expected
	65.9	68.1			54	±P±q Ql
						Medium to light tanish-yellow-green, non-calcareous, PS, foliated phyllite, hosts trace-1% pyrite clots and 3-5% <1.0 cm bands and wisps of strong silicification occurring parallel S_1. Interval hosts a 0-3cm irregular quartz blob at the upper contact with strongly chloritized margins. Unit is salt to very salty, moderately to strongly broken // S_1 and has good recovery. Upper contact is

DDH 916-38 (2 8)

CURRAGH RESOURCES INC.
Lithologic Log

Date: Apr '91 Logged By: S. Zsedenyi

Code	From	To	Recov.	No.	Unit	Description
1	10 14	16 20	22 24	26 28	30 34	35
						sharp and irregular. Lower contact is gradational over 30cm with a non-altered phyllitic component of lower unit becoming progressively more dominant down hole.
	681.1	691.6			29	± ℓ (20→72) 85:15
						Medium locally medium dark gray $CS_2 \rightarrow PS_2$ foliated unit is non-calcareous and is generally strongly bioturbated // S_2. Locally unit is slightly to moderately darker in color. Darker color is a result of darker chlorite and only very rarely because of a slight graphitic component. Darker bands are from 0.5 - 2.0 cm wide and // S_2. Rock is soft to slightly soft, and sporadically is crushed and approaches gouge. Upper contact is gradational over 30cm with a loss of upper units alteration down hole. Lower contact sharp and marked by a 3cm irregular gouge band.
	691.6	711.4			54	± P ± ZG ± QP
						light greenish yellow, non-calcareous, PS_2 foliated phyllite is moderately to strongly sericitic and hosts scattered wisps and clots of pyrite, sphalerite and galena. Interval also hosts 0-7% quartz-carbonate veins from 1.0-30cm wide generally // S_2 that host trace-3% pyrite and 0-trace galena ± sph. Rock is moderately soft, strongly broken // S_2 and has good

DDH 91G-38 (2 8)

CURRAGH RESOURCES INC.

Lithologic Log

Date: Apr '91 Logged By: J. Zbeetnoff

Code	From	To	Recov.	No.	Unit	Description
1	10 14	16 20	22 24	26 28	30 34	35
						good recovery. Upper contact is marked by a 2-3cm gouge band, below gouge band alteration is weak but becomes progressively stronger over the next 35cm. Lower contact is sharp and marked by quartz veins.
	71.4	74.5			29	±P±ZG ±QPk (72) 90:10 N
						Medium gray, non-calcareous phyllite is PS_1 foliated with PS_1 fabric generally contorted by shear fabrics of no distinct orientation. Quartz veins are typically irregular and also contort PS_1 fabric. Pyrite occurs as scattered grains within phyllite but more commonly associated with quartz veins. Unit hosts 0-5% quartz-carbonate veins (calcite(?)). Interval hosts 10-15% 1-10cm bands of gouge. Recall is slightly soft strongly broken and has good recovery. Upper contact is sharp, irregular and marked by quartz vein at upper unit with gouge below. Lower contact is sharp and parallel banding of lower unit. Lowest 25cm of interval contains a highly contorted PS_1 fabric - disrupted by shearing and also hosts scattered wisps and clots of Galena and sphalerite. No portion of interval hosts grade above ½% combined.
	74.5	75.2			3	ZZGP (8M) 95:05 V
						Purplish brown, non-calcareous, intensely mineralized with sphalerite, siliceous unit contains 10-15% disseminated clots within a

DDH 916-38

CURRAGH RESOURCES INC.
Lithologic Log

Date: Apr '91 Logged By: J. Zbeetnoff

Code	From	To	Recov.	No.	Unit	Description
						moderately siliceous sphaleritic matrix. Unit is weakly banded
						and hosts a 3-4cm band of Po at upper contact. Po band is //
						banding. Rock is very hard moderately broken and has good
						recovery. Upper contact is sharp and // banding. Lower contact is
						sharp and // banding of this unit and S_0 of lower unit.
						Estimated grade is 40-50% combined Pb+Zn.
	75.2	77.1			52	±P ±QKP (422H) 98:02
						Buff-tan, slightly green, non-calcareous sericitic phyllite is S_1
						foliated and commonly contains a low angle (wrt CA) shear fabric which
						disrupts S_1. Interval hosts 2% stringers, bands, and clots
						of intensely mineralized (Sph) sulphides occurring as fragments
						within shear fabric. Mineralized fragments are ~~on~~ elongated //
						shear fabric. Rock is soft to moderately soft and hosts 3-5%
						irregular quartz-ankerite veins and clots. Rock is strongly broken
						commonly crushed. Recovery is good to fair. Upper contact is sharp
						and // banding and S_0. Lower contact is sharp and
						oriented // shear fabric @ 10° wrt CA.
						No grade above 1% over 10cm.
	77.1	77.5			8	H
						Purple brown, non-calcareous, strongly magnetic Po rich massive
						sulphides becomes less magnetic and strongly Sph rich over lowest
						10cm. Unit is massive and textureless. Rock is very hard, slightly broken

DDH 91G-33 (2 8)

CURRAGH RESOURCES INC.
Lithologic Log

Date: Apr '91 Logged By: J. Sinclair

Code	From	To	Recov.	No.	Unit	Description
1	10 14	16 20	22 24	26 28	30 34	35
						and has good recovery. Upper contact is // upper shear fabric and trends 10° wrt C.A. Lower contact is sharp and // S_2 / banding. Estimated grade is 10%.
	771.5	781.4			7	±@ (60ZG) 80:20 Light brown to tan, non calcareous highly baritic unit hosts 20-25% pyrite. Unit also contains 20% very light gray to white highly irregular quartz veins and blebs on the dm-scale. Veins and blebs contains medium grained galena and sphalerite - of a remobilized nature. Injected quartz contains very sharp contacts with baritic ore. Barite unit is slightly hard to slightly soft, slightly broken and has good recovery. Banding is fairly well developed and is slightly contorted adjacent quartz injection. Upper and lower contacts are sharp and parallel banding (S_2(?)) Estimated grade is 10-12%. Lowest 10cm is moderately porous and slightly permeable.
	781.4	801.9			3	ZZG ±c (2) 98:02 Dark purple and light gray, generally non-calcareous, strongly siliceous unit is intensely mineralized and hosts 10-15% pyrite. Calcite is very sporadic and limited to open fractures which generally trend @ 240/20° wrt S_2 or banding. Unit hosts 2% graphitic guartzite (bottom of Alt 2a) discontinuous fragments and veins oriented within S_2. Rock is

DDH 916-38

CURRAGH RESOURCES INC.

Lithologic Log

Date: Apr '91 Logged By: J Scott

Code	From	To	Recov.	No.	Unit	Description
						very hard, moderately to slightly broken and has good recovery. Upper and lower contacts are sharp and // S_2 Estimated grade is 35 %.
	80.9	82.8			3	→ 4 Light gray and medium yellowish gray, non-calcareous unit is strongly siliceous and hosts 30-35% pyrite occuring in cm-dm bands that are fairly well defined locally appearing patchy. Pb+Zn mineralization is very weak. Rock is very hard moderately to slightly broken, recovery is good throughout. Upper and lower contacts are sharp and // banding (S_2).
	82.8	85.9			3	Z±ZZG (3L → 4 : 2) 80 : 15 : 05 Light gray and purplish yellow, non-calcareous, strongly siliceous unit hosts 10-30% pyrite and generally hosts moderate sphalerite disseminated with pyrite. Locally mineralization is intense over 10-15cm and also bitten over 20-50cm bands. Unit is fairly well banded. Rock is a very hard, slightly broken and has good recovery. Upper and lower contacts are sharp and parallel banding (S_2). Estimated grade averages 7-10%.

DDH 91G-38 (2 8)

CURRAGH RESOURCES INC.
Lithologic Log

Date: Apr 91 Logged By: B Scott

Code	From	To	Recov.	No.	Unit	Description
1	10 14	16 20	22 24	26 28	30 34	35
	85.9	86.8			52	→ 20#s (52g → 20#sg) 95:15
						Light to medium grayish yellow, non-calcareous, moderately to weakly sericitic unit is PS foliated and hosts 15% silicified bands generally 0.5cm wides. Rock is very soft to soft, hard where siliceous, moderately broken and has good recovery. Upper contact is sharp, slightly irregular and // s. Lower contact is gradational over 20cm and noted as a loss of silicification and sericitic alteration.
						No grade.
	86.8	89.9			29	±g (72) 95:05
						Medium gray, rarely medium dark gray, non-calcareous PS foliated, rhyolite is locally slightly graphitic. Unit hosts 5% gouge occurring remotely as low angle bands <1.0cm wide, cross cutting s. More rarely gouge occurs as 5-10cm bands // s. Upper contact is gradational over 20cm.
	89.9					EOH

DDH 91G-33 (PP) **CURRAGH RESOURCES INC.** Page 16 of 20

Logged by J. Zbeddell

ASSAY LOG (SAMPLER'S COPY) Date Apr '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	42.1	—			WASTE	
	42.1	43.4	644404		0.	5	## → 7 ## [illegible]
	43.4	44.7	4405		1.	2	PP
	44.7	46.3	4406		1.	2	
	46.5	47.3	4407		1.	2	
	47.1	48.2	4408		1.	2	
	48.3	49.3	4409		0.	2	
	49.5	51.0	4410		1.	60	(2)
	51.2	51.5	4411		0.	5	± → 7
	51.5	53.2	4412		1.	5	
	53.2	54.0	4413		0.	5	minor 44 ##;
	54.0	55.0	4414		0.	5	moderate 44 ##;
	55.3	56.3	4415		1.	5	(7) 85:15
	56.3	57.7	4416		1.	7	
	57.7	59.2	4417		0.	5	
	59.0	60.0	4418		1.	5	,
	60.0	61.6	4419		1.	7	±c
	61.7	62.1	4420		0.	5	
	62.1	62.8	4421		0.	7	cc ±e
	62.3	64.7	4422		1.	7	±c ±e
	64.4	65.3	4423		1.	7	±c ±e
	65.3	65.7	4424		0.	52	## P ±g ZG
	65.7	74.5	—	—	—	WASTE	
	74.5	75.2	4425		0.	3	ZZGP (8M) 95:05
	75.2	77.1	4426		1.	52	±PQkP (4zz) 98:02
	77.1	77.5	4427		0.	8	
	77.5	78.4	4428		0.	7	
	78.4	79.6	4429		1.	3	ZZG ±c (2) 98:02
	79.6	80.9	4430		1.	3	ZZG ±c (2) 98:02
	80.9	82.3	4431		1.	3	L
	82.8	84.3	4432		1.	3	Z ± ZZG
	84.3	84.8	4433		0.	3	L
	84.8	85.7	644434		1.	3	Z ± ZZG
	85.9	89.4	—		—	—	WASTE
							E.O.H @ 89.9

DDH 91G-38 (2 8)

CURRAGH RESOURCES INC.
Structural Log

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

Code	From	To	Feature	Sym	S_0 Lg Dip Direct.	S_1 Dip Direct.	S_2 Dip Direct	Description
1	10 14	16 20	22 24	26	28 32	34 38	40 44	
	0	42	1					O/B
	42	44	6	PS2			60	Banding
	44	61	6	CS2S	146 25	334	51	
	52	61	4	PS2			65	Banding
	56	61	6	PS2			51	"
	62	67	6	PS2			73	"
	68	81	0	PS2			62	
	73	81	0	PS2			55	
	78	81	3	PS2			60	Banding
	84	86	6	PS2			54	"
	87	87	5	PS2			68	
								EOH @ 89.9

DDH 916-38 (2 / 8) CURRAGH RESOURCES INC. Page 18 of 20

Fault Log Date: Apr '91 Logged By: D. Abbott

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	
	71.7	74.5				25 220		Very wide fault, minor gouge, broken, sporadic gouge
	75.3	77.1			10		10	moderate fault, fairly strong shear fabric
	88.3	89.9				16 340		Sporadic fault slips and gouge beds
								EOH @ 89.9

CURRAGH RESOURCES INC.

GEOTECHNICAL LOG

DDH# 91G-38

Units: Feet / Metres   Date: Apr '91   Logged By: [illegible]   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
21.6	—	—																NQ	CASING
42.1	—	—																	O/B very poor recovery
43.4	0.3	0																	
44.5	1.5	0																	
46.0	1.3	0.1																	
47.1	1.1	0																	
48.6	1.3	0.15																	
50.1	1.4	0.4																	
51.7	1.6	0.3																	
53.3	1.6	0.25																	
54.9	1.4	0.2																	
56.4	1.5	0.6																	
57.6	1.2	0.6																	
58.2	0.5	0.4																	
59.7	1.5	1.1																	
61.3	1.5	1.35																	
62.8	1.5	1.1																	
64.3	1.5	1.2																	
65.8	1.5	0.6																	
68.9	2.9	0.1																	
69.3	0.4	0																	
70.4	1.1	0.2																	
71.9	1.5	0																	
73.5	1.4	0.3																	
75.0	1.5	1.1																	
76.5	1.2	0																	
78.0	1.5	0.7																	
78.9	0.9	0.9																	Adjusted with [illegible] block

CURRAGH RESOURCES INC.

GEOTECHNICAL LOG

DDH# 91G-38

Units: Feet / Metres Date: Apr '91 Logged By: J. Zbel Page 20 of 20

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
																		NQ	
79.6	0.7	0.4																	Adjusted with block
81.1	1.5	0.6																	
82.6	1.4	0.7																	
84.1	1.5	1.0																	
85.6	1.5	1.0																	
87.2	1.6	0.8																	
88.7	1.4	0.6																	
89.9	1.0	0																	
EOH	—	—																	EOH