DDH 91DY-04 (2 8)

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Lithologic Log (Box 101 Onwards) Date: Feb. 15/91 Logged By: D. Hallinwell

Code	From	To	Recov.	No.	Unit	Description
1	10 14	16 20	22 24	26 28	30 34	35
L	5776	5882			1ØD4	(1ØD48) 65:35
						Light grey f.g. phaneritic feldspar-rich (8Ø%) groundmass, off-white c.g-v.c.g. subhedral plagioclase (5%) phenocrysts, smoky m-c.g. anhedral quartz phenocrysts (15%) within fresh porphyritic igneous texture. Very weakly calcareous. Massive. Light grey-black-white speckled fracture surfaces. Hard. No sulphides. Some plagioclase may be altering to clay minerals (kaolinite?). Occasional ochre limonitized fracture surfaces. Rare quartz-calcite veinlets at all CA angles. Very good core recovery, RQD. Blocky core at 58Ø.1-58Ø.4. Gradational contacts with other intrusive phases.
						Slightly more melanocratic phase of quartz diorite contains black f.g. subhedral amphiboles (hornblende?) and has gradational contacts with 1ØD4.
L	5882	5920			1ØE8	
						Dark grey f.g. phaneritic-aphanitic feldspar-pyroxene groundmass (6Ø%), off-white c.g-v.c.g. subhedral plagioclase (2Ø%), clear m.g aphanitic quartz (7%) and black f.g-m.g. amphibole (13%) phenocrysts within fresh porphyritic igneous texture. Very weakly to non-calcareous. Massive. Dark grey-white-black fracture surfaces. Hard. Local chloritization of mafics, epidote-albite saussuritization of plagioclase near lower contact. Very good core recovery, RQD. Gradational contact with more leucocratic phase above. Sharp lower contact at CA 65°.
L	5920	5925			5B61	→ 4LØ BLOCKY.
						Light to medium grey phyllite with off-white quartz-dolomite(?) laminae/beds following $S_1, S_2/S_2$. Weakly calcareous. CS_2 foliated. Silvery grey and ochre (limonite) fracture surfaces. Moderately soft. No sulphides. Good core recovery. Poor RQD. Blocky throughout.

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	10 14	16 20	22 24	26 28	30 34	35
						Sharp upper contact at CA65°. Slickensided lower contact at CA60°.
	59.25	59.56			4L1	→5B61 (4LØ→5B61&7) 6Ø:4Ø
						Greenish yellow grey altered phyllite with offwhite quartz-dolomite siltstone laminae/beds following $S_1, S_2/S_2$. Very weakly calcareous. CS_2 and PS_2 foliated. Yellowish-grey (sericite-rich) fracture surfaces. Moderately hard, smooth (silicified). No sulphides. Fair to poor core recovery (Ø.3m core loss at 592.5-595.Ø). Good to poor RQD. Blocky core at 594.8?-595.6. Sharp upper, lower contacts at CA50° Rubbly core at 595.5-595.6. Clayey fault gorge at 595.2. Clayey-carbonaceous (no graphite) fault gouge at 595.5-596.6
						Non-silicified variant is more grey, non-calcareous to weakly calcareous, and moderately soft. Has gradational contacts with 4L1→5B61
L	59.56	59.83			4L17	→5B61&7 (4LØ7←5B61&7 : 5B62) 65:35:Ø5
						Yellowish-green grey altered phyllite with offwhite quartz-dolomite siltstone laminae/beds following $S_1, S_2/S_2$. Very weakly calcareous. CS_2 and PS_2 foliated. Silvery yellowish-green grey fracture surfaces. Moderately hard, smooth (weakly silicified). Bands (Ø.5-Ø.8cm wide) of fg bronze magnetic pyrrhotite (2Ø-25%, overall) following S_2 locally (596.5-596.7) ≤20% fg weathered pyrite; 5-1Ø%, overall). Wisps of chalcopyrite (≤5mm long) associated with pyrrhotite, with quartz gangue. (~1%, overall). Possible reddish-brown sphalerite, associated with sphalerite. Mostly healed minor oligomict clast-supported breccia with angular-elongate clasts (≤1.5cm. long) of quartz oriented subparallel S_2. Wisps of olive-grey Mg-chlorite subparallel S_1 & S_2.
						Good core recovery, Good to poor RQD. Blocky to rubbly core at 596.1-596.3, 596.5-597.1. Soft core at 595.6-596.7. Sharp upper contact at CA50°

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Code	From	To	Recov.	No.	Unit	Description
	10 14	16 20	22 24	26 28	30 34	35
						Sharp lower contact at CA 70°. Graphitic fault gouge at 597.4 at CA 75° Less silicified variant occurs towards upper contact, is very weakly calcareous, moderately soft, greyer in colour and has gradational contacts with 4L17. Rare dark grey carbonaceous phyllite occurs at 596.1-596.3, is very weakly calcareous, is soft, has weakly graphitic fracture surfaces, is barren and has gradational contacts with 4L17 → 5B61&7 and 5B61&7 → 4LØ7.
L	598.3	599.7			5B6	(5B61 → 4LØ) 6Ø:4Ø Light to medium grey phyllite with rare off white quartz-dolomite siltstone laminae/beds following $S_1, S_2 // S_2$. Very weakly calcareous. PS_2 and (rare) CS_2 foliated. Silvery grey fracture surfaces. Moderately soft. No sulphides. Contains rare quartz-calcite veinlets at CA 2Ø°-6Ø° (following L_3, L_4, L_5?). Very good core recovery. Good to fair RQD. Blocky core at 598.5-599.1. Sharp upper contact at CA7Ø°. Sharp lower contact at CA8Ø°. Slightly greenyellowish grey altered (quartz-sericite) phyllite occurring at 599.2-599.7 is very weakly calcareous, moderately hard (weakly silicified), PS_2 and CS_2 foliated, contains 2-3% euhedral pyrite cubes (≤0.05mm) in bands parallel S_2 and has gradational contact with 5B6.
L	599.7	6ØØ.3			4EB	→ 4CB Massive pyritic sulphides to base-metal-poor pyritic quartzite with black magnetite. Non-calcareous. Massive (S_1, S_2 obscured). Metallic yellow-bronze fracture surfaces. Hard. Contains 6Ø% pyrite as euhedral cubes ≤3cm in interlocking texture. Strongly magnetic with 25% black fine magnetite patches interstitial to pyrite. Wisps

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Code	From	To	Recov.	No.	Unit	Description
	10 14	16 20	22 24	26 28	30 34	35
						of chalcopyrite (≤ 2cm long) ≤ 1%, overall. Dense, heavy (sulphides, no barite seen). Possible barite present.
						Very good core recovery. Good RQD. Sharp upper contact at CA80°. Sharp lower contact at CA60°.
L	6003	6024			4C.0	(4C7:5B416) 40:40:20)
						Pyritic quartzite is pale grey to creamy white. Very weakly calcareous. PS_2 and CS_2 foliated. Silvery grey (muscovite-quartz) fracture surfaces. Moderately hard. Contains thin ribbons and bands, poorly layered and interrupted (0.5-6.0 cm wide) of euhedral cubic pyrite; perhaps 10-15% overall; following S_2 foliation. Dark grey-black vfg aphanitic, dendritic Fe-chlorite(?) bands crosscut S_2, are soft (non-graphitic) and non-magnetic. Contains 0.5% accessory chalcopyrite along fractures, sometimes intergrown with pyrrhotite. Very good core recovery. Good RQD. Sharp upper contact at CA60°. Gradational lower contact.
						Pyrrhotite-rich variant is very weakly calcareous, PS_2 and CS_2 (microlithon) foliated, and contains bronze fg. pyrrhotite (5-10%) within laminae (1-3 mm wide) parallel S_2 foliation. Pyrrhotite also occurs with pyrite in pyritic bands (described above).
						Locally (6001.4-6001.5), becomes quartz-sericite altered non-calcareous phyllite with greyer colour, softer and CS_2 foliated. Has gradational contacts with 4C0, 4C7
L	6024	6041			5B4.1	6 → 4L1
						Slightly yellow-green quartz-sericite ± chloritic altered phyllite with off-white quartz-dolomite ± calcite laminae/beds following S_1, S_2. Weakly calcareous, PS_2 and CS_2 (microlithon) foliated. Yellowish-green-silvery grey fracture surfaces. Moderately soft to moderately hard. Bronze fg. subhedral pyrrhotite laminae, beds following S_1, S_2. (5-10% pyrrhotite, overall).

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	10 14	16 20	22 24	26 28	30 34	35
						Very good core recovery. Good RQD. Gradational upper, lower contacts parallel S_2.
L	6041	6075			4LØ	→5B416 (4L1:4L7:4HØ) 4Ø:35:2Ø:Ø5
						Yellowish-green-grey quartz-sericite altered phyllite with off-white quartz-dolomite (siltstone?) laminae/beds following S_1, S_2/S_2. Very weakly calcareous. PS_2 and CS_2 (microlithon) foliated. Yellowish (sericitic) silvery grey fracture surfaces. Moderately hard.
						Very good core recovery. Good RQD. Blocky to rubbly core at 6041.4-6041.5 with no gouge. Gradational contacts parallel S_2.
						More leucocratic, harder, smoother silicified (altered) phyllite occurs locally, is weakly calcareous, and has gradational contacts with 4LØ→5B416.
						Pyrrhotitic phyllite variant contains laminae, bands (Ø.5-2.0mm wide) following S_1, S_2 contains 5% bronze f.g. subhedral magnetic pyrrhotite with/without euhedral cubic pyrite (Ø.5%) Trace disseminated chalcopyrite, sphalerite(?) is associated with these. Gradational contacts with 4LØ, 4L1.
						Very pyrrhotitic phyllite occurring at 6Ø6.8-6Ø6.9 is weakly calcareous, CS_2 and PS_2 foliated (pyrrhotite, chlorite laminae), cross-cut by chloritic veinlet at 0Aº-2Øº, hard and moderately to strongly magnetic. Dense, heavy. Contains ~5Ø% pyrrhotite (as mg subhedral cubic pseudomorphs after pyrite?, trace black f.g. magnetite(?) wisps and Ø.5% wisps of chalcopyrite. No barite seen.
L	6075	6100			5B64	(4LØ) 9Ø:1Ø
						Light to medium grey phyllite with off-white quartz-dolomite siltstone laminae/beds following S_1, S_2 PS_2. Very weakly calcareous. CS_2 and PS_2 foliated. Silvery grey fracture surfaces. Moderately soft. Occasional pyrrhotite bands (≤2mm wide) parallel S_2; 2-3% pyrrhotite, overall. Rare trace chalcopyrite wisps. Very good core recovery. RQD. Gradational contacts parallel S_2.

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	10 14	16 20	22 24	26 28	30 34	35
						Yellowish-green quartz-sericite-chlorite altered phyllite laminae, bands are very weakly calcareous, harder and have gradational contacts with 5B64.
L	615.00	615.86			5B64	→ 4L17 (4L17:100) 80:15:05
						Light to medium grey phyllite with off-white quartz-dolomite siltstone laminae/beds following S_1, S_2. and yellowish green grey quartz-sericite-chlorite altered phyllite. Very weakly calcareous. CS_2 (muscovite) and PS_2 foliated. Yellowish-green and silvery grey fracture surfaces. Moderately soft. Pyrrhotite laminae, bands (1-30mm wide) parallel S_2; 2-3% pyrrhotite, overall. Associated with traces of red-brown sphalerite. Very good core recovery. Good to very good RQD. Gradational contacts parallel S_2.
						Yellowish-green grey quartz-sericite-chlorite altered phyllite have siltstone laminae/beds, are very weakly calcareous, are CS_2 and PS_2 foliated, are moderately hard and have gradational contacts with 5B64 → 4L17.
						White-buff bull quartz-calcite concordant bands (veins?) subparallelling S_2 are moderately calcareous, hard and have sharp contacts with 5B64 → 4L17, 4L17. Occur at 615.5-615.7, 615.9-616.1 and 616.3-616.5. Healed oligomict clast-supported breccia. Contain remobilized mineralization along veinlets (≤3% pyrrhotite, ≤1% galena, ≤1% red-brown sphalerite). Contain wisps of black Fe-chlorite).
L	615.86	616.93			5B4	→ 4L7*
						Light to medium grey phyllite with off-white quartz-calcite siltstone laminae/beds following S_1, S_2/S_2. Moderately calcareous. CS_2 and PS_2 foliated. Slight yellowish-green tint (quartz-sericite ± chlorite alteration). Yellowish silvery grey fracture surfaces. Moderately soft to moderately hard. Occasional pyrrhotite bands (1-3 mm wide) parallel S_2; 0.5%

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1	10 14	16 20	22 24	26 28	30 34	35
						pyrrhotite, overall. Very good core recovery. Good RQD. Gradational contacts parallel S_2.
L	619.3	624Ø			5B64	→ 4LØ (5B64→4LT) 8Ø:2Ø (blue-green chloritic) Light to medium grey phyllite with off-white quartz-dolomite siltstone laminae/beds following S_1, S_1/S_2 and local yellowish-greenish quartz-sericite-chlorite alteration (621.7-621.9, etc.). Very weakly calcareous. CS_2 (microlithon) and PS_2 foliation. Silvery grey and yellowish-green (sericite-chlorite) grey fracture surfaces. Moderately soft to (locally) moderately hard. Very good core recovery. Fair RQD. Blocky core at 62Ø.7-62Ø.9, 621.8-621.9, 622.2-622.3. Pyrrhotite-banded variant at 62Ø.8-621.Ø, etc. includes 1-5mm wide laminae, beds following S_1, S_2. 1-2% pyrrhotite, locally. Gradational contacts with 5B64→4LØ.
L	624Ø	6255			5F4	(4LO) 7Ø:3Ø Yellowish-greenish grey quartz-sericite-chlorite altered phyllite with off-white quartz-dolomite siltstone laminae/beds following $S_2 \pm S_1/S_2$. Very weakly calcareous. PS_2 and (rarely) CS_2 foliated. Silvery grey (fibrolite) and yellowish grey fracture surfaces. Moderately soft to moderately hard. Good core recovery (possible 0.1m loss at 623.9-625.4). Fair RQD. Blocky to rubbly core at 625.3-625.5. Gradational contacts parallel S_2. Pyrrhotite-banded variant contains 1-5mm wide laminae, bands following S_2 (2-3% pyrrhotite, overall). Also includes 3-6mm wide bands of e.g. euhedral cubic pyrite. Gradational contacts with 4LØ→5B64.
L	6255	6291			5B64	→4LØ (5B64→4LT: 1ØQS) 9Ø:Ø8:Ø2 Light to medium grey phyllite with off-white quartz-dolomite siltstone laminae/

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	10 14	16 20	22 24	26 28	30 34	35
						beds following $S_1, S_2/S_2$. Very weakly calcareous. CS_2 and PS_2 foliated. Weak yellowish green grey quartz-sericite-chlorite alteration, locally. Silvery grey and yellowish grey fracture surfaces. Moderately soft to (locally) moderately hard. Very good core recovery. Good RQD. Gradational contacts parallel S_2.
						Pyrrhotite-banded/laminated altered phyllite has 1-10mm wide pyrrhotite laminae/bands following S_1/S_2. Gradational contacts with 5B64→4L0.
						White-buff quartz-dolomite concordant bands (veins?) subparallelling S_2 are weakly calcareous, hard and have sharp contacts with 5B64→4L0, 5B64→4L7.
L	6291	6328			5B41	6→4L17 (1QQ) 90:10
						Light to medium grey phyllite with off-white quartz-dolomite siltstone laminae/beds following $S_1, S_2/S_2$. Very weakly calcareous. CS_2 and PS_2 foliated. Weak yellowish-green quartz-sericite-chlorite alteration, locally. Silvery grey and yellowish grey fracture surfaces. Moderately hard, smooth (weakly silicified). Pyrrhotite laminae/beds (1mm-4cm. wide) parallel S_2 are bronze, fg, metallic, and magnetic; 3-5% pyrrhotite, overall. Associated with traces of m.g. euhedral cubic pyrite and red-brown fg. sphalerite. Rare trace chalcopyrite occurs as veinlet-fillings. Good core recovery, RQD. Blocky core at 6304-6307. Gradational contacts parallel S_2.
						Off-white buff quartz concordant bands (veins?) subparallelling S_2 are non-calcareous, hard, contain trace pyrrhotite as c.g. euhedral cubic pseudomorphs after pyrite and have sharp contacts with 5B416→4L17.
L	6328	6396			5B6	(5B16→4L17: 1QQ#) 80:12:08
						Light to medium grey phyllite with off-white quartz-dolomite laminae/

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	10 14	16 20	22 24	26 28	30 34	35
						beds following S_1, S_2/S_2. Very weakly calcareous. CS_2 and PS_2 foliated. Silvery grey fracture surfaces. Moderately soft. Pyrrhotite laminae/wisps following S_2/S_1. Very good core recovery. Good RQD. Gradational contacts parallel S_2.
						Slightly yellow-greenish grey, quartz-sericite altered phyllite is very weakly calcareous, harder and is proximal to bull quartz bands(veins?) and pods.
						White-buff quartz±calcite concordant bands(veins?) subparallelling S_2 are weakly calcareous, hard, and have sharp contacts with 5B6, 5B16→4L127.
L	6396	6399			5B0	
						Light to medium grey phyllite with off-white quartz-calcite siltstone laminae/beds following S_1, S_2/S_2. Moderately calcareous, PS_2 and CS_2 foliated. Silvery grey fracture surfaces. Moderately soft. No sulphides. Very good core recovery. Good RQD. Gradational contacts parallel S_2.
L	6399	6430			5B6	
						Light to medium grey phyllite with rare off-white quartz-dolomite siltstone laminae/beds following S_1, S_2/S_2. Very weakly calcareous. PS_2 and (rarely) CS_2 foliated. Silvery grey fracture surfaces. Moderately soft. Trace disseminated pyrrhotite as blebs. Very good core recovery. Good RQD. Blocky core at 642.6-642.8. Gradational contacts parallel S_2.
L	6430	6437			5B62	
						Dark to medium grey phyllite with off-white quartz-dolomite siltstone laminae/beds

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	10 14	16 20	22 24	26 28	30 34	35
						following S_2. Very weakly calcareous, PS_2 foliated. Dark silvery grey fracture surfaces. Moderately soft to soft. No sulphides. Very good core recovery. Good RQD. Gradational contacts parallel S_2
L	643.7	652.9			5B6	(100%) 96:04
						Light to medium grey phyllite with off-white quartz-dolomite laminae/beds following S_1, S_2/S_2. Very weakly calcareous CS_2 and PS_2 foliated. Silvery grey fracture surfaces. Moderately soft. Trace disseminated pyrrhotite as wisps and laminae parallel S_1, S_2. Healed oligomict clast-supported breccia at 644.7. Good core recovery, RQD. Blocky core at 645.2-645.5. Clayey-organic (non-graphitic) gouge at 643.1. Gradational contacts parallel S_2.
						Green-white quartz-dolomite concordant beds (veins?) subparallelling S_2 are weakly calcareous, hard and have sharp contacts with 5B6.
L	652.9	653.4			5B6.2	
						Dark to medium grey phyllite with off-white quartz-dolomite siltstone laminae/beds following S_1, S_2/S_2. Very weakly calcareous. PS_2 foliated. Dark silvery grey fracture surfaces. Moderately soft to soft. 2mm wide pyrrhotite band parallel S_2 at 653.3. Clayey fault(?) gouge at 653.1. Good core recovery. Fair RQD. Blocky core at 652.9-653.2. Gradational contacts parallel S_2.
L	653.4	660.2			5B0.1	→ 4LØ (100%: 5B6) 95:05: TRACE
						Light to medium grey phyllite with slight yellowish-green tint and off-white quartz-

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						calcite siltstone laminae/beds following $S_1 S_2/S_2$. Moderately calcareous. CS_2 and PS_2 foliated. Silvery-yellowish grey fracture surfaces. Moderately soft to moderately hard (where silicified). Trace disseminated pyrrhotite (Ø.5-1.Ø %) as euhedral cubic clusters and pyrrhotite laminae (1-2mm wide) parallel S_2. Rare trace chalcopyrite wisps along bands parallel S_2. Very good core recovery. Good RQD. Blocky core at 654.7-654.9. Gradational contacts parallel S_2. White-buff quartz-calcite concordant bands (veins?) subparallelling S_2 are moderately calcareous, hard and have sharp contacts with 5BØ1. Rare olive green bands (2-5 cm wide) of chloritic phyllite parallelling S_2 are moderately calcareous, and moderately soft; with olive green fracture surfaces and gradational contacts parallel S_2 with 5BØ1.
L	660.2	664.1			5B61	→ 4LØ (1ØQ) 98:Ø2 Light to medium grey phyllite with yellowish green tint and off-white quartz-dolomite siltstone laminae/bands following $S_1 S_2/S_2$. Very weakly calcareous. CS_2 and PS_2 foliated. Moderately soft to moderately hard (where silicified). Pyrrhotite laminae (1-2mm wide) and blebs (1-2%) parallel S_2, Silvery yellowish grey fracture surfaces. Very good core recovery. Good RQD. Gradational contacts parallel S_2. White bull quartz concordant bands (veins?) subparallelling S_2 are non-calcareous, hard and have sharp contacts with 5B61→4LØ.
L	664.1	667.8			5B61	(4LØ1) 85:15 Light to medium grey phyllite with off-white quartz-dolomite siltstone laminae/beds following $S_1, S_2/S_2$. Very weakly calcareous. CS_2 and PS_2 foliated. Silvery grey

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						fracture surfaces. Moderately soft to soft. No sulphides. Good core recovery (Slight core loss at 664.3-664.4). Fair RQD. Blocky core at 664.0-664.1. Gradational upper contact parallel S_2. Pyritic laminae (1-2mm. wide) parallel S_2 and euhedral pyritic cubes at 663.8-664.1. Sharp lower contact at CA 80°.
						Yellowish greenish grey quartz-sericite-chlorite altered phyllite with siltstone laminae/beds following $S_1, S_2/S_2$ occurring at 664.3-664.5 is very weakly calcareous, moderately hard (silicification) and has yellowish silvery grey fracture surfaces and gradational contacts with 5B61.
L	667.8	670.8			4G0	→4E4(5B46) 85:15
						Yellowish grey-white pyritic-baritic massive sulphide (65% pyrite, 10% pyrrhotite, 15% quartz, 10% barite). Non-calcareous. CS_2 and PS_2 foliated. White-grey-pyritic fracture surfaces. Hard. Dense, heavy (barite). Pyrite occurs as fg.-mg. euhedral cubes in masses and laminae following S_1, S_2. Pyrrhotite occurs as brown fg. subhedral cubiform crystals interstitial to pyrite. Trace chalcopyrite as yellow-mg. subhedral crystals in pods along with quartz at 668.4, 669.6. Purplish grey fg. euhedral galena sometimes occurs. Purplish red-brown sphalerite bands (≤ 5cm. wide) at 667.9, 669.2, 670.7-670.8;
						Very good core recovery. Good RQD. Sharp upper contact at CA 80°. Sharp lower contact at CA 70°.
						Light to medium grey altered phyllite with off-white quartz-dolomite siltstone laminae, beds following S_2 at 669.25-669.5 is very weakly calcareous. PS_2 foliated, moderately soft and is cross-cut by quartz-calcite band with purplish-grey v.f.g. galena on selvages.

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1	10 14	16 20	22 24	26 28	30 34	35
L	671.08	671.19			5B6	→4LØ (4LØ) 70:30
						Light to medium grey phyllite with greenish-yellow tint and off-white laminae/beds following S_1, S_2/S_2. Very weakly calcareous. PS_2 and CS_2 foliated. Silvery yellowish-grey fracture surfaces. Moderately soft to moderately hard (where silicified). Pyrrhotite occurs as bronze fig. cubic forms (pseudomorphs after pyrite?) within (2-15cm wide) laminae, bands parallel S_2; 3-5% pyrrhotite, overall. Chalcopyrite occurs as yellow subhedral forms within wisps oriented cross-cutting S_1, S_2 (parallel L_3, L_4, L_5); trace amount, overall.
						Very good core recovery. Good RQD. Sharp upper contact at CA 70°. Gradational lower contact parallel S_2.
						Greenish-yellow grey quartz-sericite-chlorite altered phyllite with siltstone laminae/beds is very weakly calcareous, moderately hard (silicification), and has gradational contacts with 5B6 → 4LØ
L	671.19	675.57			4LØ	(4LØ→5B6) 85:15
						Yellowish-green grey quartz-sericite-chlorite altered phyllite with off-white quartz-dolomite siltstone laminae/beds following S_1, S_2/S_2. Very weakly calcareous. CS_2 and PS_2 foliated. Yellowish silvery grey fracture surfaces. Moderately hard, smooth (where silicified). Pyrrhotite laminae, bands (1-5mm wide) parallel S_2 and wisps following S_1 are rare; 1-2% pyrrhotite, overall. Very good core recovery. Fair to poor RQD, blocky to mildly core at 673.4–673.7, 674.Ø–674.6, 675.Ø–675.4. Semi-healed oligomict clast-supported breccia at 674.8. Shear zone at 675.Ø–675.3, C-fracture at CA 30°, S-fracture at CA 75° (i.e. not mylonitic).
						Light to medium grey, fairly fresh, phyllite with siltstone laminae/beds occurring at 674.6–674.9 is very weakly calcareous, moderately soft and has gradational contacts

DDH 91DY-04

CURRAGH RESOURCES INC.
Lithologic Log

Date: Feb. 15/91 Logged By: D. Hallinell

Code	From	To	Recov.	No.	Unit	Description
1	10 14	16 20	22 24	26 28	30 34	35
						with 4LØ. Weak yellowish green tint (quartz-sericite-chlorite alteration).
L	676.57	683Ø			5B6	⇒4LØ (1ØQ &@) 9Ø:1Ø
						Light to medium grey phyllite with yellowish-green tint (locally) and off-white siltstone (quartz-dolomite) laminae/beds following $S_1, S_2/S_0$. Very weakly calcareous. CS_2 and PS_2 foliated. Silvery grey to yellowish silvery grey fracture surfaces. Moderately soft. Pyrrhotite blebs and laminae (1-3mm wide) parallel S_2; 1-2% pyrrhotite, overall. Vuggy at 676.8, with dolomite fillings. Very good core recovery. Good to fair RQD. Blocky and clayey gouge at 676.35-676.4. Soft, very weakly calcareous (ankerite?) patch at 680.4. Gradational upper contact parallel S_2. Gradational lower contact at CA 70° parallel S_2.
						White-beige quartz-ankerite(?) concordant bands (veins?) subparallel S_2 are extremely weakly calcareous, hard and have sharp contacts with 5B6⇒4LØ.
L	683Ø	684.2			4C8	
						Pyritic (4Ø-5Ø%) quartzite with 5-10% black magnetite patches and interstitial fillings between fg-mg euhedral cubic pyrite crystals. Non-calcareous to weakly calcareous. PS_2 foliated. White-grey fracture surfaces. Hard. Pyritic bands (0.5-2.0cm wide) parallel S_2 contain m-g. euhedral cubes. Pyrrhotitic laminae, bands (1-4mm wide) parallel S_2; 5-10% pyrrhotite, overall. Black strongly magnetic patches and lenses of magnetite (≤5cm dia., ≤5cm long). Clusters of yellow subhedral chalcopyrite crystals (≤5mm long); perhaps Ø.5% chalcopyrite, overall. No V.G. seen, though chalcopyrite is very yellow (native gold inclusions possible?) at 683.8 (soft, flakes off, but greenish streak & not malleable). Heavy, dense (may contain some baryte)

DDH 91DY-04 (2 8)

CURRAGH RESOURCES INC.
Lithologic Log

Date: Feb. 15/91 Logged By: D Halliwell

Code	From	To	Recov.	No.	Unit	Description
1	10 14	16 20	22 24	26 28	30 34	35
						V.f.g. (honey) sphalerite may present.
						Very good core recovery, RQD. Gradational upper contact at CA70° parallel S_2.
						Fairly sharp lower contact at CA80°.
L	684.2	685.5			4C07	$ (4E7:4E8⇒4C8) 50:30:20
						Weakly pyrrhotitic pyritic quartzite (base-metal poor). Non-calcareous. Weakly PS_2 and CS_2 foliated. Yellowish-white-grey fracture surfaces, hard. Contains 50% pyrite in laminae, bands parallel S_2 (1mm-6cm wide) and following S_1 (1-5mm wide). Contains weakly calcareous dolomite patches and S_1 controlled vermicular shapes (≤5cm long).
						Contains 10% pyrrhotite laminae, bands parallel S_2. Moderately dense, heavy. Very good core recovery, RQD. Fairly sharp upper contact at CA80° marked by 4E7.
						Fairly sharp lower contact at CA75°. Contains 30% quartz, 10% dolomite.
						Massive (pyrite-pyrrhotite) sulphide occurring at 684.2-684.5 contains 65% pyrite, 15% pyrrhotite, 18% quartz and 2% dolomite. Very weakly calcareous. Massive to PS_2 foliated to (locally) CS_2 foliated. Brownish-yellow fracture surfaces. Hard to moderately hard. Weakly magnetic. Fairly dense, heavy.
						Massive pyritic quartzite with magnetite at 685.1-685.5 contains 60% pyrite, 30% quartz, 9% magnetite, 1% dolomite and trace chalcopyrite associated with quartz-dolomite-magnetite fractures, poks. Cross-cut by grey dolomite-magnetite fracture at CA20°.
L	685.5	685.9			4G0	
						Baritic massive sulphide contains 45% pyrite, 15% barite, 20% quartz, 15% honey to red-brown sphalerite and 4% dolomite, 0.5% galena, 0.5% chalco. Very weakly calcareous

DDH 91DY-04 (2 8)

CURRAGH RESOURCES INC.
Lithologic Log

Date: Feb. 15/91 Logged By: D. Halliwell

Code	From	To	Recov.	No.	Unit	Description
1	10 14	16 20	22 24	26 28	30 34	35
						Massive to PS_2 foliated. Brownish-yellow-grey-white fracture surfaces. Moderately hard. Pyrite is massive to PS_2 banded and occurs as f.g. euhedral cubes. Whitish f.g. disseminated dense (heavy) barite is difficult to see. Blonde (honey) sphalerite is v.f.g. anhedral and is difficult to see; reddish-brown sphalerite is more massive, occurring at 685.7-685.9. Large clusters of creamy v.f.g. angular dolomite are very weakly calcareous. Purplish grey v.f.g. euhedral cubic galena. Yellow v.f.g. subhedral chalcopyrite occurs on fracture surfaces. Non-magnetic (no magnetite or pyrrhotite).
						Very good core recovery, RQD. Fairly sharp upper contact at CA75°. Gradational lower contact parallel S_2
L	685.9	690.1			4E08	→ 4C08 & 9
						Massive pyrite-magnetite sulphide with magnetite laminae, bands and patches; dolomite (patches) and chalcopyrite (veins). Contains 60% pyrite, 25% quartz, trace pyrrhotite, 10% magnetite, 4% dolomite and 1% chalcopyrite; overall. Very weakly calcareous (dolomite patches). Massive to CS_2 foliated. Yellowish-white-grey ± black fracture surfaces. Moderately hard. Pyrite is massive to laminated/banded following S_1. Brecciated zone at 688.7 (fairly healed oligomict clast-supported breccia with subangular-equant massive pyritic clasts). Black v.f.g. subhedral magnetite forms irregular patches (2mm-3cm. dia.) and laminae (1-2mm wide) following S_1; strongly magnetic. Creamy dolomite patches (2mm-2cm dia.) are weakly calcareous. Chalcopyrite occurs along quartz-magnetite fractures as yellow m.g. subhedral crystals and dendritic-wirelike forms. Very yellow, soft inclusions (barely visible) may be V.G. at 688.4-688.6 (several locations). Trace pyrrhotite occurs at 688.4-688.6. No sphalerite, galena seen.
						Very good core recovery, RQD. Gradational upper contact parallel S_2.

DDH 91DY-04 (2 8)

CURRAGH RESOURCES INC.
Lithologic Log

Date: Feb 17/91 Logged By: D. Halliwell

Code	From	To	Recov.	No.	Unit	Description
	10 14	16 20	22 24	26 28	30 34	36
L	691.0 1	692.6			4C8,7	89 (4L1) 95:05
						Magnetite, pyrrhotite-bearing pyritic quartzite containing 40% quartz, 35% pyrite, 10% magnetite, 5% pyrrhotite, 8.5% dolomite, and 1.5% chalcopyrite. Very weakly calcareous. PS_2 and CS_2 foliated. White-grey-yellow fracture surfaces. Hard. Yellowish f.g-m.g. euhedral cubic pyrite disseminated and within 1-30 mm. wide bands parallel S_2. Black v.f.g. subhedral(?) magnetite within 1-20 mm. wide bands parallel S_2 and 1-3 mm. laminae following S_1; strongly magnetic. Brown f.g. subhedral(?) pyrrhotite within 1-3 mm laminae parallel S_2. Off-white patches, laminae and late veinlets cross-cutting S_1, S_2 of weakly calcareous dolomite. Yellow m.g. subhedral chalcopyrite as blebs and veinlet-fillings (2mm-3cm.), notably at 691.35-691.55 (veinlet at CA 40° selvaged by brown pyrrhotite and black non-magnetic euhedral mineral with reddish internal reflections (blackjack sphalerite?).
						Very good core recovery, RQD. Fairly sharp upper contact at CA 20°. Sharp lower contact at CA 50°.
						Yellowish-green grey quartz-sericite ± chlorite altered phyllite at 692.2-692.6 is non-calcareous, moderately hard, CS_2 foliated, has yellowish silvery grey (sericitic) fracture surfaces, and has gradational contacts with 4C8789.
L	692.6 6	693.4			AE8,	(4E8→4C8) 60:40
						Magnetite-bearing pyritic massive sulphide containing 70% pyrite, 20% quartz, 8% magnetite, 1.5% dolomite and 0.5% chalcopyrite. Weakly calcareous. Massive to PS_2 foliated. Brassy yellow-grey-white fracture surfaces. Hard. Brassy yellow f.g-m.g. euhedral cubic pyrite as masses, bands and laminae parallel S_2. Black f.g. (subhedral?) magnetite occurs within laminae following S_2. Off-white patches, laminae and bands of dolomite parallel S_2. Yellow m.g-f.g. subhedral

DDH 91DY-04

CURRAGH RESOURCES INC.

Lithologic Log

Date: Feb. 17/91 Logged By: D. Halliwell

Code	From	To	Recov.	No.	Unit	Description
						chalcopyrite along veinlets at CA 40°-50°.
						Very good core recovery. Good RQD. Sharp upper contact at CA 50° Gradational lower contact.
						Pyritic massive sulphide tending towards pyritic quartzite at 692.9-693.4 contains 60% quartz, 35% pyrite, 4% dolomite and 1% chalcopyrite. Weakly calcareous. PS_2 foliated. Hard. Gradational contacts with 4E8
L	693.4	693.5			4CQ	→ 4EØ (4EØ:5B46) 70:28:02
						Pyritic quartzite containing 55% pyrite, 40% quartz, 4% dolomite and 1% chalcopyrite. Very weakly calcareous. PS_2 to CS_2 foliated. White-grey-brassy yellow fracture surfaces. Hard. Brassy yellow f.g-m.g. euhedral-cubic pyrite within laminae-bands (1mm-5cm wide) parallel S_2 and masses. V.f.g. quartzose matrix. Off-white dolomite-quartz pods elongate parallel S_2 are weakly calcareous. Yellow m.g. euhedral chalcopyrite as pods along quartz-dolomite veinlets. Remobilized c.g. brassy yellow (pyritic) reddish-black blackjack sphalerite, and yellow chalcopyrite & purplish grey galena at intersection of two quartz-dolomite veinlets at CA 60°, CA 70° at ↓ 694.6 within 5B46. Very good TCR. Good RQD. Gradational upper, lower contacts parallel S_2.
						Pyritic massive sulphide contains 65% pyrite, 30% quartz, 5% sulphides.
L	695.5	696.0			4GQ	
						Baritic-pyritic massive sulphide contains 60% pyrite, 20% barite, 15% quartz 5% dolomite. Brassy yellow v.f.g. (euhedral-cubic?) pyrite occurs as masses and bands (2-5cm wide). Off-white, soft, heavy dense barite occurs as masses and disseminations

DDH 91DY-04

CURRAGH RESOURCES INC.
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Code	From	To	Recov.	No.	Unit	Description
1	10 14	16 20	22 24	26 28	30 34	36
						Off-white weakly calcareous f.g. dolomite occurs as patches and bands (parallel S_2). Very weakly calcareous. Massive to PS_2 foliated. Moderately hard. Ochre limonitic stain. Very good core recovery. Good RQD. Gradational contacts parallel S_2
L	696.0	696.2			4GQ	
						Pyritic quartzite with 50% quartz, 30% pyrite and 20% carbonate. Very weakly calcareous. PS_2 foliated. Grey-white-brassy yellow fracture surfaces. Hard. Brassy-yellow m.g. euhedral-cubic pyrite occurs as disseminations and 1-10mm bands parallel S_2. Off-white m.g. anhedral "speckles" of very weakly calcareous carbonate (dolomite ± ankerite). Very good core recovery. Good RQD. Sharp upper contact at CA70°. Sharp lower contact at CA80°.
L	696.2	696.6			4EQ@	→4GQ@
						Pyritic massive sulphide contains 70% pyrite, 20% quartz, 5% barite, 5% dolomite and trace chalcopyrite. Very weakly calcareous. Massive to PS_2 foliated. White-grey-brassy yellow fracture surfaces. Hard to moderately hard. Brassy yellow f.g. - f.g. (euhedral-cubic) pyrite occurs as masses and bands (2-5cm wide) parallel S_2. Off-white, soft, dense (heavy) barite occurs at 696.4-696.6 as disseminations and bands (2-6cm wide) parallel S_2. Off-white weakly calcareous dolomite occurs in laminae/bands parallel S_2.
						Very good core recovery. Good RQD. Sharp upper contact at CA80°. Sharp lower contact at CA65°.
						Brecciated, vuggy dolomite-ankerite band at 696.35-696.4 is off-white-black, hard, weakly to very weakly calcareous and has sharp contacts with 4GQ

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CURRAGH RESOURCES INC.
Lithologic Log

Date: Feb 17/91 Logged By: D. Hallinwell

Code	From	To	Recov.	No.	Unit	Description
						subparallel S_2. Black v.f.g. anhedral non-magnetic, non-calcareous unknown mineral occurs.
L	696.6	697.8			4L9	→4L1 (100S#) 65:35 WITH BRECCIAS
						Yellowish-green grey quartz-sericite-chlorite altered phyllite with off-white quartz-dolomite siltstone laminae, beds following S_2. Very weakly calcareous. PS foliated. Yellowish silvery grey fracture surfaces. Moderately hard (silicified). No sulphides. Very good core recovery. Good to very good RQD. Sharp upper contact at CA 65°. Gradational lower contact parallel S_2.
						White to off-white bull quartz-dolomite-calcite concordant bands (veins?) subparallel S_2 are moderately to weakly calcareous, hard and have sharp contacts with 4L0→4L1. Healed polymict matrix-supported breccia with angular-subangular quartz, carbonate and altered phyllite clasts at 696.7-696.8, 697.0-697.2 and 697.4-697.6. Breccia matrices contain remobilized e.g.-v.c.g. pyrite (brassy yellow), sphalerite (red-brown) chalcopyrite (yellow), pyrrhotite (brown) and galena (purplish grey) as veinlet (breccia matrix)-fillings
L	697.8	703.1			5B6	→4L0 (100S#:5B0) 95:04:01
						Light to medium grey phyllite with yellowish-green interbands, off-white quartz-dolomite siltstone laminae/bands following S_1, S_2 // S_3. Very weakly calcareous. PS and CS$_2$ foliated. Silvery grey (± yellowish) fracture surfaces. Moderately soft. Laminae and lenses of pyrrhotite parallel S_2. Very good core recovery. Good RQD. Gradational upper/lower contacts.
						White-buff bull quartz-dolomite-calcite concordant bands (veins?) subparallelling S_2 are calcareous, hard and have sharp contacts with 5B6→4L0, 5B0.
						Non-calcareous unaltered phyllite occurs at 699.0-699.2.

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CURRAGH RESOURCES INC.
Lithologic Log

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Date: Feb. 17/92 Logged By: D. Hallinan

Code	From	To	Recov.	No.	Unit	Description
	10 14	16 20	22 24	26 28	30 34	36
L	7003 1	7007 3			5B6,1	→4L17 (100$#) 90:10
						Light to medium grey phyllite +/- yellowish-green quartz-sericite-chlorite altered and with off-white quartz-dolomite siltstone laminae/beds following S_1, S_2 / S_3. Very weakly calcareous. CS_2 and PS_2 foliated. Silvery grey fracture surfaces +/- yellowish tint. Moderately hard, smooth (weak silicification). Pyrrhotite laminae (1-3mm wide) following S_1, S_2. Very good core recovery. Good RQD. Gradational contacts parallel S_2.
						Off-white built quartz-dolomite-calcite contact be la(veins?) subparallel S_2 are weakly to moderately calcareous, hard and have sharp contacts with 5B1→4L17.
L	7073	7087			4C8	(4L1) 70:30
						Magnetite-bearing pyritic quartzite contains 50% quartz, 30% pyrite, 15% magnetite and 5% dolomite. Very weakly calcareous CS_2 and PS_2 foliated. White-grey-brassy yellow fracture surfaces. Hard. Black v.f.g (subhedral?) magnetite occurs as 1-5mm wide bands parallel S_2 and laminae following S_1. Brassy yellow m.f.g. euhedral-cubic pyrite occurs within bands parallel S_2 and laminae following S_1. Off-white weakly calcareous dolomite occurs as laminae, beds.
						Interbands of yellowish-green grey quartz-sericite-chlorite altered phyllite with siltstone laminae/beds are weakly calcareous, CS_2 and PS_2 foliated, moderately soft and have gradational contacts with 4C8.
L	7087	7093			4C0	
						Pyritic quartzite contains 50% quartz, 45% pyrite and 5% dolomite.

DDH 91DY-Ø4

CURRAGH RESOURCES INC.
Lithologic Log

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Date: Feb 17/91 Logged By: D. Hallmall

Code	From	To	Recov.	No.	Unit	Description
						Very weakly calcareous. S_1 and S_2 foliated. White-grey-brassy yellow fracture surfaces. Hard. Brassy yellow mg-fg euhedral-cubic pyrite occurs as disseminations, bands parallel S_2. Very good core recovery, good RQD. Gradational upper contact parallel S_2!
						7Ø9.3 = EOH

CURRAGH RESOURCES INC.

GEOTECHNICAL LOG

DDH# 91DY-Ø4 MINZ

Units: Feet / Metres Date: Feb 15/91 Logged By: DRH Page A of

Run (Length)	TCR (Length)	RQD (Length)	Strength	Degree Breakage	Weathering Alteration	FRACTURES wrt CA																Core Size	Comments
						0–30				30–65				50–70				65–90					
						No	Rough	Alt	Type	No	Rough	Alt	Type	No	Rough	Alt	Type	No	Rough	Alt	Type		
574.5	+0.7	+0.3																				NQ	
577.6	2.9	1.9	R4	15	2	3	15	10	J	1	15	10	J					10	15	10	J		
580.6	3.1	1.9	R5	14	2	2	15	10	J	3	14	10	J					4	14	10	J		
583.7	3.0	1.7	R4	13	1	Ø	–	–	–	3	14	10	J					11	14	10	J		
586.7	3.1	2.2	R4	14	1	Ø	–	–	–	3	14	10	J					16	14	10	J		
589.8	3.0	2.7	R4	15	2	Ø	–	–	–	Ø	–	–	–					4	14	10	J		
592.5	2.5	1.6	R4	14	1	1	14	10	J	3	15	10	J					13	14	10	J		
595.Ø	2.2	1.1	R3	12	2	Ø	–	–	–	3	14	10	J					20	11	8	S		
596.5	1.6	0.4	R3	10	2	2	15	10	J	2	15	10	J					13	11	10	S		
597.9	1.1	0	R3	10	2	1	14	10	J	1	16	10	J					17	11	10	S6		clayey-argillaceous
600.9	3.0	0.9	R3	10	1	2	16	10	J	2	14	10	J					39	11	5	S		
604.Ø	3.0	1.1	R3	10	1	1	15	10	J	3	12	10	J					29	12	6	S		
607.2	3.0	0.7	R3	10	2	1	14	10	J	1	15	10	J					39	11	5	S		
610.2	3.0	2.0	R2	13	1	Ø	–	–	–	Ø	–	–	–					30	12	6	S		
611.7	1.5	0.9	R2	12	1	Ø	–	–	–	Ø	–	–	–					12	20	10	S		
614.8	3.1	1.7	R2	12	1	Ø	–	–	–	1	12	10	S					31	12	6	S		
617.8	3.0	2.3	R2	12	1	Ø	–	–	–	2	14	10	J					23	12	6	S		
620.9	3.1	1.5	R2	14	1	Ø	–	–	–	1	13	10	S					31	12	6	S		
623.9	3.0	0.8	R2	12	1	1	16	10	J	3	14	10	S					45	12	3	S		
625.4	1.5	0	R2	9	2	1	16	10	J	Ø	–	–	–					36	11	10	S		
627.9	2.2	1.4	R2	12	1	Ø	–	–	–	3	14	10	J					17	12	10	S		
630.0	2.1	0.5	R2	10	1	Ø	–	–	–	2	15	10	J					36	11	10	S		
631.0	1.6	1.2	R3	11	1	Ø	–	–	–	Ø	–	–	–					14	12	10	S		
632.5	0.7	0.7	R3	13	1	Ø	–	–	–	1	17	10	J					3/4	12/12	10/10	S/S		
633.1	0.6	0.3	R3	13	1													23	12	8	S		
636.1	2.7	1.6	R2	15	1	1	16	10	J	2	17	10	J					30	12	6	S		
639.2	3.0	1.2	R2	14	1	Ø	–	–	–	2	16	10	J					30	12	6	S		
642.2	2.9	1.8	R2	14	1	Ø	–	–	–	Ø	–	–	–					42	12	3	S		
645.3	3.1	1.1	R2	11	1	2	16	10	J	2	16	10	J					22	12	8	S		
648.3	3.1	2.2	R2	14	1	Ø	–	–	–	Ø	–	–	–					16	12	10	S		
651.4	2.7	2.3	R2	15	1	Ø	–	–	–	1	17	10	J										

CURRAGH RESOURCES INC.

GEOTECHNICAL LOG

DDH# 91-DY-04

Units: Feet / Metres Date: FEB 4/91 Logged By: RW/DRH Page ____ 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
654.4	3.0	1.2	R3	13	1	Ø	–	–	–	Ø	–	–	–	33	12	6	S	NQ	
657.5	3.0	1.3	R2	12	1	Ø	–	–	–	Ø	–	–	–	32	12	6	S		
660.5	3.0	1.0	R2	13	1	Ø	–	–	–	Ø	–	–	–	48	13	3	S		
663.5	3.0	0.9	R2	12	1	Ø	–	–	–	Ø	–	–	–	46	12	3	S		
666.6	2.8	0.4	R2	12	1	Ø	–	–	–	3	11	10	S	55	12	3	S		
669.6	2.9	0.7	R2	8/12	1	1	16	10	J	2	15	10	J	57	13	3	S		
672.7	3.1	1.2	R3	13/14	1	Ø	–	–	–	1	15	10	J	36	12	6	S		
674.5	1.9	0.2	R2	8	2	4	15	10	J	4	14	10	S	40	12	3	S		
676.4	1.9	0.1	R2	10	2	1	14	10	J	3	9	10	GJ	33	12	6	S		clayey fault gouges
678.8	2.1	1.0	R2	10	1	2	14	10	J	2	16	10	J	36	12	5	S		
681.8	3.0	1.9	R2	14	1	Ø	–	–	–	2	14	10	J	24	12	8	S		
684.9	3.0	2.5	R3	14	1	Ø	–	–	–	3	14	10	J	15	12	10	S		
687.9	3.0	2.8	R3	14	1	1	15	10	J	1	15	10	J	15	13	10	S		
691.0	3.0	2.5	R3	14	1	1	15	10	J	2	16	10	J	7	13	10	S		
694.0	3.0	2.5	R3	14	1	Ø	–	–	–	5	15	10	J	10	13	10	S		
697.1	3.0	2.4	R3	13	1	Ø	–	–	–	3	15	10	J	16	13	10	S		
700.1	3.1	2.6	R2	14	1	Ø	–	–	–	1	16	10	J	16	13	10	S		
703.2	2.9	1.8	R2	13	1	Ø	–	–	–	2	15	10	J	26	13	8	S		
706.2	2.9	2.7	R2	13	1	Ø	–	–	–	1	13	10	S	14	12	10	S		
709.3	2.9	2.5	R2	14	1	Ø	–	–	–	1	16	10	J	14	12	10	S		
EOH																			

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DDH 91DY-04 (2 / 8) CURRAGH RESOURCES INC.
Structural Log Date: Feb. 16/91 Logged By: D. Hallewell

Code	From	To	Feature	Sym	S_0 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	
S								Quartz Diorite, Massive.
S								2
S								Quartz Diorite, Diorite, Massive.
S	593	2	CS2S	T	169	50 018	68	
S	607	4	CS2S	T	054	42 276	77	
S	607	0	CS2S	T	169	30 000	65	DD2
S	610	4	CS2S	T	029	16 026	71	
S	617	4	CS2Z	T	000	33 217	74	
S	622	8	CS2S	T	089	15 018	78	
S	628	5	CS2S	T	028	56 000	71	
S	631	1	PS2-	T			88	No CS_2 without "saddle"-like appearances.
S	638	9	CS2S	T	025	32 037	64	
S	646	1	CS2S	T	089	17 049	60	
S	651	8	CS2S	T	024	11 017	77	
S	657	7	CS2Z	T	063	63 061	83	
S	661	3	CS2S	T	137	46 296	80	
S	666	4	CS2S	T	169	79 000	82	DD2
S	673	3	CS2Z	T	149	11 069	77	
S	680	2	CS2S	T	118	16 355	84	
S	685	8	CS2Z	T	173	40 180	50	
S	690	3	CS2S	T	114	62 277	82	
S	698	2	CS2S	T	019	17 338	72	
S	701	2	CS2S	T	156	23 000	64	DD2
S	705	5	CS2S	T	071	35 000	76	DD2

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DDH 91DY-04 (2 / 8) CURRAGH RESOURCES INC.

Fault Log

Date: Feb. 16/91 Logged By: D. Hallinwell

Code	FROM	TO (At)	Feature	REC.	UPPER Dip Direct	INTERNAL Dip Direct.	LOWER Dip Direct	Description
	10 14	16 20	22 24	26	28 32	34 38	40 44	
F	5920	5925	2B					Blocky. Upper, lower contacts at CA 70°, 58°, respectively
F	5925		1S			341		Slickensides at 341° to S_2 strike, 263° to S_2 dip.
F	6043	6044	1BR					Blocky to rubbly zone. Chloritic
F	6304	6307	1B					Broken. Upper, lower contacts at CA 86°, 82°; respectively.
F	6737	67A0	2B					Blocky zone. Upper, lower contacts at CA 67°, CA 74°; respectively.
F	6743	6746	3B					Blocky zone. Upper, lower contacts at CA 86°, CA 88°; respectively
F	6753	6755	2GR			71 026		Chloritic-sericitic fault gouge with
						84 028		C, S structures not parallel (i.e.
						75 081		not true mylonite) at CA 29°(C)
								CA 27°(S). C at 026°/71° to
								S_2 strike. S at 028°/84°
								to S_2 strike. Fault gouge at
								081°/75° to S_2 strike.
F	6769	6770	1B					Blocky. Upper, lower contacts at CA 64°, CA 68°; respectively

DDH 91DY-04 CURRAGH RESOURCES INC.

Page 1 of 2

Logged by D. Halliwell

ASSAY LOG (SAMPLER'S COPY) Date Feb 16/91 Sampled by

CODE	FROM	TO	SAMPLE	INTR.	REC (m)	UNIT	DESCRIPTION
	5925	5940	652791			4L0	
	5940	5956	652801			4L1	
	5956	5965	652811			5B61	→4L17
	5965	5983	652821			4L17	
	5983	5997	652831			5B61	→4L0
	5997	6003	652841			4E8	→4C8
	6003	6015	652851			4C0	(4C7)
	6015	6024	652861			4C0	→5B416
	6024	6041	652871			5B416	
	6041	6049	652881			4L0	
	6049	6060	652891			4L1	→5B416
	6060	6070	652901			4L0	(4L1:4L7:4H0)
	6070	6100	652911			5B64	
	6300	6325	652921			5B64	→4L1
	6534	6545	652931			5B01	(4L0)
	6545	6565	652941			5B01	
	6565	6592	652951			5B0	
	6592	6602	652961			5B0	
	6602	6622	652971			5B6	→4L0
	6622	6641	652981			5B6	→4L0
	6641	6660	652991			5B6	
	6660	6678	653001			5B6	
	6678	6690	653011			4G0	
	6690	6708	653021			4G0	(4E0)
	6708	6719	653031			5B6	→4L0 (4L0)
	6719	6730	653041			4L0	(4L0→5B6)
	6730	6757	653051			4L0	(4L0→5B6
	6757	6780	653061			5B6	→4L0
	6780	6810	653071			5B6	→4L0
	6810	6830	653081			5B6	→4L0
	6830	6842	653091			4C8	
	6842	6855	653101			4E0	
	6855	6859	653111			4G0	
	6859	6880	653121			4E0	→4C08 & 9

DDH 91DY-04 CURRAGH RESOURCES INC. Page ____ of ____

Logged by D. Halliwell

ASSAY LOG (SAMPLER'S COPY) Date Feb. 16/91 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
	6880	6885	653113			4E08	→ 4C08 89 ← Cu ± Au
	6885	6900	653114			4E08	→ 4C08 89
	6900	6911	653115			AC87	89 (4L1)
	6911	6916	653116			AC87	89 (4L1) ← Cu ± Au
	6911	6922	653117			AC87	89 (4L1)
	6922	6933	653118			AE8	→ 4C8
	6933	6955	653119			AC0	→ 4E0
	6955	6966	653120			AG0	
	6966	6965	653121			AE0	(4C0)
	6965	6977	653122			AL0	
	6977	6972	653123			AL0	
	6972	6978	653124			700$#	cpy, gal
	6977	7000	653125			5B61	→ 4L0
	7006	7017	653126			5B61	→ 4L17
	7017	7087	653127			AC8	
	7088	7099	653128			AC0	FOH

DY PROGRAM - DEVIATION ANALYSIS

JOHN ZBEETNOFF
91DY-04

TOTAL DEPTH	DIRECTION DEG	ANGLE DEG	VERTICAL DEPTH	LATITUDE FEET	DEPARTURE FEET	VERTICAL SECTION	DOG LEG
0	0.0	0.00	0.00	0.00 N	0.00 E	0.00	0.00
107	339.0	0.75	107.00	0.85 N	0.25 W	0.89	0.70
207	357.5	1.10	206.98	2.22 N	0.53 W	2.16	0.46
307	350.0	1.45	306.96	4.43 N	0.79 W	4.21	0.39
407	342.0	1.70	406.92	7.09 N	1.47 W	6.84	0.33
507	320.0	1.60	506.85	9.70 N	2.93 W	9.84	0.67
707	330.0	2.50	706.73	15.88 N	7.14 W	17.30	0.40
797	326.0	2.70	796.64	19.34 N	8.30 W	21.38	0.30
897	317.5	3.40	896.52	26.78 N	15.26 W	30.64	0.46
1057	326.5	5.30	1056.25	30.50 N	18.02 W	35.46	0.61

THE DOGLEG SEVERITY IS IN DEGREES PER 100 FEET
THE VERTICAL SECTION WAS COMPUTED ALONG AZ. 329.34

BASED UPON MINIMUM CURVATURE TYPE CALCULATIONS. THE BOTTOM HOLE DISPLACEMENT IS 35.46 FEET, IN THE DIRECTION OF AZ. 329.34

Northern Analytical Laboratories ltd.

March 8,1991

Work Order # 13078

File # 13078a

P.O. # 400302

Curragh Resources Inc.
117 Industrial Road.
Whitehorse, Yukon
Y1A 2T8

Assay Certificate

Sample	g/t Au	g/t Ag	%Pb	%Zn	%Fe	SG
65292	0.07	4.7	0.35	0.46	8.76	2.93
65293	0.09	0.7	0.06	0.01	3.72	2.80
65294	0.04	1.8	0.14	0.16	5.21	2.86
65295	0.07	2.8	0.29	0.17	6.87	2.88
65296	0.07	6.1	0.47	0.65	4.64	2.83
65297	0.07	0.3	0.02	0.01	3.97	2.85
65298	0.02	<0.1	0.03	<0.01	3.58	2.82
65299	0.06	<0.1	0.01	<0.01	3.12	2.84
65300	0.10	2.7	0.20	0.32	4.17	2.72
65301	0.84	48.5	3.06	3.84	21.94	4.48
65302	0.52	39.2	2.90	2.23	23.09	4.21
65303	0.09	7.0	0.46	0.20	9.40	2.99
65304	0.07	2.5	0.11	0.06	5.36	2.86
65305	0.13	5.2	0.28	0.32	6.76	2.95
65306	0.08	0.6	0.04	0.08	5.91	2.84
65307	0.09	0.4	0.02	0.03	5.44	2.84
65308	0.02	0.3	<0.01	0.01	5.10	2.84
65309	0.51	20.7	1.13	0.50	19.97	3.38
65310	0.78	17.3	0.45	0.12	28.27	4.13
65311	1.27	107.2	5.08	5.20	11.36	4.26
65312	0.87	23.7	1.25	0.18	27.53	4.49
65313	1.31	29.9	1.30	0.63	30.22	4.40
65314	1.23	11.6	0.40	0.12	30.71	4.34
65315	0.46	32.6	1.81	1.28	22.36	3.89
65316	0.35	21.6	1.33	0.78	15.99	3.26
65317	0.43	29.5	1.90	0.94	18.41	3.38
65318	0.88	15.6	0.50	0.18	31.45	4.37
65319	0.76	16.9	0.53	0.32	27.27	4.11
65320	1.11	8.8	0.15	0.09	27.84	4.14
65321	1.82	42.9	1.57	1.00	22.32	3.81

Applied Science Technologists and Technicians of British Columbia
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Northern Analytical Laboratories ltd.

March 8,1991

Work Order # 13078

Curragh Resources Inc.
117 Industrial Road.
Whitehorse, Yukon
Y1A 2T8

File # 13078b

P.O. # 400302

Assay Certificate

Sample	g/t Au	g/t Ag	%Pb	%Zn	%Fe	SG
65322	0.40	17.3	0.85	1.44	5.43	2.91
65323	0.45	14.3	1.03	1.06	23.62	3.90
65324	0.21	20.7	1.31	2.31	6.98	2.97
65325	0.07	<0.1	0.01	0.05	4.25	2.78
65326	0.09	1.1	0.07	0.18	7.69	2.85
65327	0.37	3.2	0.17	0.20	13.54	3.13
65328	0.35	1.2	0.13	0.14	10.67	3.01

Science technologists and Technicians of British Columbia Association
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Northern Analytical Laboratories ltd.

March 1,1991

Work Order # 13074

Curragh Resources Inc.
117 Industrial Road.
Whitehorse, Yukon
Y1A 2T8

File # 13074

P.O. # 400300

Assay Certificate

Sample	g/t Au	g/t Ag	%Pb	%Zn	%Fe	SG
65279	0.18	2.0	<0.01	0.03	5.53	2.81
65280	0.10	0.5	<0.01	0.02	5.02	2.74
65281	0.32	1.7	0.06	<0.01	13.85	3.05
65282	0.27	5.6	0.25	0.03	23.17	3.33
65283	0.11	<0.1	<0.01	<0.01	6.84	2.88
65284	0.49	4.7	<0.01	0.01	29.57	4.01
65285	0.26	1.2	0.02	0.02	15.31	3.19
65286	0.15	<0.1	0.05	0.02	10.43	3.23
65287	0.12	1.1	<0.01	0.01	6.41	2.81
65288	0.09	0.3	<0.01	0.01	6.99	2.84
65289	0.11	0.7	0.01	0.01	5.63	2.82
65290	0.16	1.0	0.01	0.03	9.96	2.96
65291	0.07	<0.1	0.01	0.04	5.41	2.86

Applied Science Technologists and Technicians of British Columbia
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