

Property	SNIP	District	Liard, M.D.	Hole No.	S-37	Page	1 of 7
Commenced	July 14, 1987	Location		Tests at	0.0/192.0 m	Horiz. Comp.	
Completed	July 16, 1987	Core size	BQ	Corr. dip	-55°/-48°	Vert. Comp.	
Coordinates	11,352.53 N	8,292.07 E		True Brg.	030	Logged by	C.L.
Objective				% Recov.	99.7	Date	September 25, 1987
				Elevation	430.50		

Metres From To	Description	FROM	TO	Length	Au ppb	Ag ppm	Cu ppm	Au g/t
0.0 - 4.9	Overburden							
4.9 - 55.4	Feldspathic Wacke	4.90	8.00	3.10	0.	0.0	46.	
	- dark grey, coarse to granular feldspathic wacke	8.00	11.00	3.00	0.	0.0	54.	
	- locally sections of light grey and pale green - alteration	11.00	14.00	3.00	40.	0.6	98.	
	- patches and wisps of biotite found in areas of dense microfracturing with +/- pyrite	14.00	17.00	3.00	38.	0.0	129.	
	- weakly cross-cut by calcite veins (every 30-40 cm)	17.00	20.00	3.00	24.	0.0	158.	
	- several calcite-biotite and calcite-quartz-biotite zones (+/- pyrite, zones up to 15cm wide) i.e. 12.2 to 13.9	20.00	23.00	3.00	32.	0.0	175.	
		23.00	24.00	1.00	38.	0.0	298.	
	19.9 to 20.2 - Dense fracturing, biotite and pyrite infilling fractures	24.00	24.50	0.50	42.	3.5	271.	
	22.5 to 22.9 - Pale green, soft unit (sericitized) weak foliation @ 65°	24.50	25.00	0.50	286.	70.2	377.	
	- Some quartz veining and minor pyrite	25.00	26.00	1.00	62.	0.9	179.	
	24.2 - Quartz-pyrite-biotite zone	26.00	27.10	1.10	40.	1.9	174.	
	- 10cm thick, 15% pyrite	27.10	30.10	3.00	32.	0.0	192.	
	24.5 to 24.9 - Sulphide zone	30.10	33.10	3.00	20.	2.3	216.	
	- Upper contact is defined by calcite and disseminated pyrite bands (10°)	33.10	36.10	3.00	32.	0.0	161.	
	- Lower contact is a mottling of calcite and annite	36.10	39.10	3.00	40.	0.0	189.	
	- Throughout the zone are irregular veins of calcite, pyrite, sphalerite and annite	39.10	42.20	3.10	40.	0.5	229.	
	- 15% pyrite, 25% sphalerite, 30% annite, 10% quartz, 20% calcite, sphalerite tends to form irregular veinlets and clots	42.20	45.20	3.00	44.	0.4	279.	
		45.20	48.20	3.00	32.	1.4	248.	
	25.4 - 1.0cm pyrite-calcite vein (50% pyrite) with a 0.5-1.0cm biotite envelope	48.20	51.20	3.00	40.	1.0	310.	
	25.6 to 26.7 - Granular feldspathic wacke with 3% pyrite, coarse grained, fracture controlled	51.20	54.20	3.00	32.	0.0	215.	
	35.3 to 36.2 - Vague epidote blotching							
	36.2 to 37.2 - Light grey, very fine grained							
epd. →	38.2 to 40.9 - Several epidote blotches and epidotized fragments							
	- Blotches have a biotite envelope, 3% pyrite, greater concentration of pyrite within epidote blotches							
	42.4 - 0.1cm sphalerite veinlet, 25°							
	42.5 to 48.5 - Blocky, in places the unit appears to be a fragmental cemented with a biotitic matrix							
	- Contains a few fractures with biotite envelopes (+/- pyrite, pyrrhotite and possibly arsenopyrite)							
	50.0 to 52.2 - Fine grained feldspathic wacke							

Coq-gran s.w.

Biotite not in all

Footage		Description	FROM	TO	Length	Au ppb	Ag ppm	Cu ppm	Au g/t
From	To								
		54.2 - 10cm of dense fracturing, infilled with a creamy colored mineral (possibly ankerite)							
		- Bleaching of rock unit around fracturing							
		52.5 to 55.4 - Coarse feldspathic wacke grading to a granular feldspathic wacke							
	55.4 - 87.7	Feldspathic Wacke	54.20	57.20	3.00	20.	0.5	107.	
		- medium greenish grey, medium grained with short intervals (<1.0m) coarse grained	57.20	60.20	3.00	20.	0.0	115.	
		- weakly cross-cut by calcite and annite-quartz-calcite veins	60.20	63.20	3.00	22.	0.0	101.	
		60.7 to 61.6 - Brownish tint - biotitic	63.20	66.20	3.00	20.	0.0	119.	
		61.6 - 10cm well foliated (weakly sheared) calcite-annite zone followed 15cm of calcite-ankerite zone	66.20	69.20	3.00	20.	0.0	36.	
		66.5 - 20cm granular feldspathic wacke with a few epidotized fragments	69.20	72.20	3.00	0.	0.0	33.	
		68.2 to 68.7 - Dense quartz-annite-calcite veining, quartz has a pinkish tint	72.20	75.20	3.00	20.	0.0	93.	
		68.7 to 70.3 - Several asbestos veins 0.1cm to 2.0cm	75.20	78.20	3.00	0.	0.0	105.	
		83.5 to 86.3 - Pale grayish green	78.20	81.20	3.00	64.	0.0	104.	
		- Medium hard interval	81.20	84.20	3.00	452.	53.2	103.	
		- Possibly sericitic alteration	84.20	87.20	3.00	52.	2.1	85.	

11g F.W.
see also

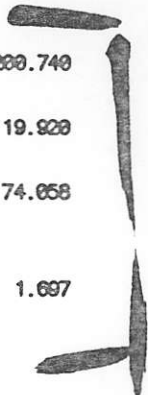
Footage		Description	FROM	TO	Length	Au ppb	Ag ppm	Cu ppm	Au g/t
From	To								
87.7	117.0	Interbedded Coarse and Granular Feldspathic Wacke	87.20	90.20	3.00	62.	2.2	122.	
		- Interbedded coarse and granular feldspathic wacke, medium grey to 95.6 and from 95.6 to 117.0 it is dark grey, biotitic, and 2% disseminated pyrite and locally fracture controlled pyrite veinlets	90.20	93.20	3.00	0.	1.2	89.	
			93.20	96.20	3.00	38.	1.4	90.	
		95.6 to 105.0 - Blocky, fragmental appearance, as for 42.5 to 48.5	96.20	99.20	3.00	54.	0.4	169.	
		105.0 to 105.4 - Biotite-pyrite-calcite zone	99.20	102.20	3.00	56.	0.0	127.	
		- Contorted biotite envelopes and clots	102.20	105.00	2.80	440.	1.3	253.	
		- 15-20% pyrite, 2-3% pyrrhotite, minor chalcopyrite	105.00	105.40	0.40	140000.	45.3	1440.	200.740
		105.0 to 106.4 - Pyrite-annite-calcite vein - 15°, 5% pyrite	105.40	106.00	0.60	544.	0.0	103.	
		106.6 - Weakly foliated - 30°	106.00	106.40	0.40	15000.	5.9	882.	19.920
		107.2 to 108.2 - Sulphide zone	106.40	107.20	0.80	616.	1.9	328.	
		- Upper and lower contacts approx. 80° (core has been ground)	107.20	108.20	1.00	46000.	82.0	2400.	74.058
		- Above and below contacts is biotitic across 3.0cm	108.20	108.60	0.40	260.	1.7	335.	
		- Upper and lower 25cm of sulphide zone - 30% pyrite, 10% sphalerite, 2% pyrrhotite, 30% quartz, 5% annite, 15% calcite, upper 25cm 1-2% chalcopyrite	108.60	109.90	1.30	40.	0.0	57.	
		- Central part of zone - 80% pyrite, 5% pyrrhotite, 1-2% arsenopyrite, and quartz, annite, calcite and ankerite, quartz as augens	112.90	115.90	3.00	1446.	1.9	269.	1.697
			115.90	118.90	3.00	64.	0.0	162.	
		108.2 to 108.6 - Blocky - dense microfracturing, biotite and minor pyrite infilling fractures							
		108.6 to 109.9 - Dark green micaceous unit flecked with black biotite?							
		- Flecks indicate a weak foliation @ 80°							
		109.9 to 111.6 - As for 108.2 to 108.6							
		113.0 - 5.0cm thick shear, minor pyrite, biotite envelope							
		113.0 to 117.0 - 2-3% disseminated pyrite, very fine grained							
117.0	129.9	Feldspathic Wacke	118.90	121.90	3.00	20.	0.0	40.	
		- medium to dark grey, with short (< 20cm) pale greenish grey altered (sericitic) units i.e. 117.5 and 125.2	121.90	124.90	3.00	22.	0.0	89.	
		- minor calcite veining, minor pyrite - fracture controlled	124.90	127.90	3.00	50.	0.0	102.	
		- few quartz-calcite veins +/- pyrite	127.90	128.80	0.90	260.	0.9	191.	
		118.5 - 10cm quartz-calcite vein with a few blebs of pyrite	128.80	128.95	0.15	3200.	6.3	932.	3.840
		128.8 - 15cm semi-massive sulphide zone							
		- 30% pyrite, 3% pyrrhotite, remainder annite, ankerite?, calcite and quartz							
		- Lower contact approx. 80°							

*Coarse gran F.W.
to 105.0
- 105.0 to 105.4
105.0 to 105.4
105.0 to 105.4*

*M.Z.
Au*

*M.G. F.W.
to 117.0
117.0 to 117.0
117.0 to 117.0*

Au



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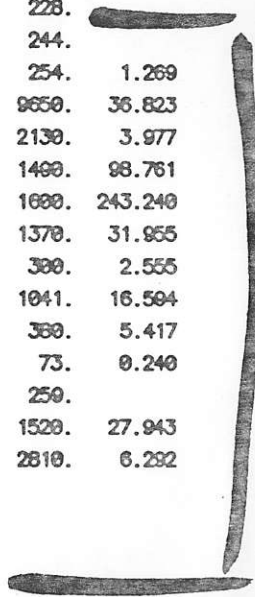
Footage		Description	FROM	TO	Length	Au ppb	Ag ppm	Cu ppm	Au g/t
From	To								
129.9	146.4	Feldspathic Wacke	128.95	132.00	3.05	120.	0.4	179.	
		- dark grey, coarse to granular feldspathic wacke	132.00	135.00	3.00	82.	0.0	106.	
		- few calcite, quartz-calcite and annite-quartz-calcite veins - 45-50°	135.00	138.00	3.00	400.	0.5	130.	
		- veins with +/- pyrite and pyrrhotite	138.00	141.00	3.00	40.	0.5	94.	
			141.00	144.00	3.00	46.	0.6	52.	
			144.00	147.00	3.00	22.	0.0	131.	
146.4	165.2	Feldspathic Wacke	147.00	147.70	0.70	156.	8.2	160.	
		- dark grey with medium to light grey intervals	147.70	150.70	3.00	40.	0.9	84.	
		- few calcite, quartz-calcite and annite-quartz-calcite veins, +/- pyrite	150.70	153.70	3.00	44.	0.6	107.	
		146.5 to 147.0 - Dense calcite veining	153.70	156.70	3.00	42.	0.6	151.	
		147.0 to 147.5 - Altered (carbonatized) to pale bluish grey	156.70	159.70	3.00	38.	0.7	131.	
		- Upper contact - 70° - biotite clots	159.70	162.70	3.00	226.	1.6	176.	
		- Lower 20cm contorted biotite, annite and sphalerite veins, 10% sphalerite, 2% pyrite	162.70	165.70	3.00	24.	0.0	132.	
		- Lower contact- ankerite and gouge							
		147.7 to 149.0 - Interbedded medium grained and fine grained feldspathic wacke							
		- 35-10°, fine grained units are creamy grey colored							
		147.7 to 152.3 - Blocky, moderate microfracturing							
		153.7 to 153.6 - Coarse grained feldspathic wacke							
		153.6 to 158.6 - Interbedded medium and fine grained feldspathic wacke							
		- Fine grained units are densely microfractured and are creamy grey colored							
		161.2 to 162.5 - Light grey, dense, fine grained, moderately fractured with annite or pyrite or ankerite infilling fracture							
165.2	185.3	Feldspathic Wacke	165.70	168.70	3.00	20.	0.0	92.	
		- dark grey, coarse to granular feldspathic wacke	168.70	171.70	3.00	22.	0.0	104.	
		- moderately cross-cut by calcite and quartz-calcite veins	171.70	174.70	3.00	64.	0.0	68.	
		167.3 to 168.8 - Few epidote blotches	174.70	177.70	3.00	0.	0.0	36.	
		177.3 to 175.3 - Several blocks of laminated fine grained feldspathic wacke	177.70	180.70	3.00	46.	0.0	153.	
		177.3 to 185.0 - Few annite veins +/- pyrite and pyrrhotite	180.70	183.70	3.00	40.	0.0	144.	
		178.0 to 179.3 - Several ankerite veinlets, unit appears to be very dense	183.70	186.70	3.00	40.	0.0	89.	
		184.7 - Annite-calcite zone, 7.0cm wide, minor pyrite and pyrrhotite, few specks of chalcopyrite							

*Int-gran F.W.**146.5 to 147.0
147.0 to 147.5**M.S. F.W.**146.5 to 147.0**C.g-gran F.W.**165.2 to 168.8*

Footage		Description	FROM	TO	Length	Au ppb	Ag ppm	Cu ppm	Au g/t
From	To								
185.3	210.2	Feldspathic Wacke	186.70	189.70	3.00	40.	0.0	300.	
		- dark grey, medium grained feldspathic wacke	189.70	192.70	3.00	80.	0.4	203.	
		191.0 to 194.8 - Moderately cut by quartz-calcite veins	192.70	194.30	1.60	106.	0.4	137.	
		195.8 to 196.8 - Grey black - biotitic, moderately fractured	194.30	195.30	1.00	126.	1.5	192.	
		- 2% pyrite, coarse grained (80% fracture controlled)	195.30	196.30	1.00	172.	2.1	228.	
		196.8 to 197.0 - Carbonatized zone, pale greenish grey	196.30	196.70	0.40	380.	2.8	244.	
		- Minor sulphides, 3% pyrite, minor pyrrhotite, trace chalcopyrite	196.70	197.00	0.30	960.	1.4	254.	1.269
		197.0 to 201.2 - Sulphide zone	197.00	197.20	0.20	25000.	22.0	9650.	36.823
		- 197.0 - 197.15 - massive pyrite - 60% pyrite, 15% pyrrhotite, 1% chalcopyrite, biotite and carbonate	197.20	197.80	0.60	3220.	6.0	2130.	3.977
		- 197.15 - 197.25 - biotitic	197.80	198.20	0.40	82000.	20.8	1400.	98.761
		- 197.25 - 198.0 - semi-massive sulphides - fine to coarse grained pyrite (30%), 5% pyrrhotite, minor chalcopyrite	198.20	199.00	0.80	200000.	41.1	1600.	243.240
		- 198.0 - 198.2 - massive sulphides, 50% fine to coarse grained pyrite, 10% pyrrhotite	199.00	199.60	0.60	30500.	6.4	1370.	31.955
		- 198.2 - 198.6 - semi-massive sulphides, 25% pyrite, fine to coarse grained, 3% pyrrhotite, @ 198.6, 1.0cm sphalerite vein - 50 ⁰	199.60	200.20	0.60	1518.	2.2	300.	2.555
		- 198.6 - 199.0 - carbonatized zone, 10% pyrite, minor pyrrhotite, trace chalcopyrite, @ 198.9, sphalerite vein, 0.5cm thick - 50 ⁰	200.20	200.80	0.60	15300.	7.5	1041.	16.504
		- 199.0 - 199.2 - massive sulphides, 50% pyrite, 5% pyrrhotite	200.80	201.20	0.40	9120.	2.6	360.	5.417
		- 199.2 - 199.4 - semi-massive sulphides, 20% pyrite, 2% pyrrhotite, trace chalcopyrite	201.20	202.40	1.20	136.	0.0	73.	0.240
		- 199.4 - 199.6 - massive sulphides, 60% pyrite, 10% pyrrhotite	202.40	203.40	1.00	116.	0.5	259.	
		- 199.6 - 200.2 - carbonatized zone, 3% pyrite, 1% pyrrhotite	203.40	203.90	0.50	19520.	11.3	1520.	27.943
		- 200.2 - 201.2 - semi-massive sulphides, 15% pyrite, 2% pyrrhotite	203.90	204.55	0.65	5480.	13.4	2810.	6.292
		201.2 to 203.4 - Dark grey to grayish black feldspathic wacke							
		- 1% pyrite - mostly fracture controlled							
		203.4 to 204.5 - Sulphide zone							
		- 203.4 - 203.9 - massive sulphides, 40% coarse grained to fine grained pyrite, minor pyrrhotite							
		- 203.9 - 204.05 - carbonatized zone, 25% pyrite, 3% pyrrhotite							
		- 204.05 - 204.2 - biotitic, minor pyrite and sphalerite							
		- 204.2 - 204.4 - carbonatized, 5% pyrrhotite, 2% pyrite, 0.5% chalcopyrite							

M.J. F.W.
185.3 to 197.0
Mod. biotite, Calc

M.7.
Fu



Property SNIP

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Footage		Description	FROM	TO	Length	Au ppb	Ag ppm	Cu ppm	Au g/t
From	To								
		- 204.4 - 204.5 - biotitic, 5% pyrite, 1% pyrrhotite, 0.5% sphalerite	204.55	205.50	0.95	612.	0.4	140.	
	204.5 to 210.2	- Dark grey, medium grained feldspathic wacke	205.50	206.50	1.00	138.	1.1	187.	
		- @ 205.1, 20cm thick carbonatized zone, 3-5% pyrite	206.50	207.50	1.00	20.	0.0	42.	
		- 205.1 - 206.5 - moderate quartz-calcite veining, @ 206.3, 2.0cm thick pyrite vein	207.50	208.50	1.00	38.	0.0	21.	
		- @ 207.3, blocks of fine grained feldspathic wacke	208.50	210.20	1.70	278.	0.0	80.	
		- 208.9 - 209.5 - alteration, pale green - sericitic?, several ankerite veins, lower 10cm is carbonatized and sericitized, 2% pyrite							
		- 209.5 to 210.2 - few carbonatized intervals with 2% pyrite							
210.0		END OF HOLE							

*M.P. S.W.
2-5% Py.
mod carb ser.*