JERVOIS MINING NL - DRILLHOLE LOG

DRILLHOLE: NC12	Logged by: J.G.Purvis	Date: 28.11.98	Depth: 40.7m	Size: NTW
	Co-ords: 4918N / 5920E (Grid)	RL: 514m (est)	Dip: - 45	Azimuth: 213 AMG

DRILL ADVANCE					LITHOLOGY					
From	To	Interval	Recovered	Lost	From	To	DESCRIPTION	ALTERATION	STRUCTURE	MINERALIZATION
0	1.5	1.5	1.15	0.35	0	0.8	HIGHLY OXIDIZED & LIMONITIC SANDSTONE		Crumbly.	Limonite-stained with boxworks
1.5	2	0.5	0.5	0			Yellowish-brown, clayey, med gr quartzose sst.			of limonite & MnOx on fracts
2	2.5	0.5	0.5	0						
2.5	3.9	1.4	1.4	0	0.8	22.2	VARIABLE ALTERED SULPHIDIC SEDIMENTS	Strong patchy biotite>	Lineated & banded:	Conformable bands of dissem to
3.9	4.7	0.8	0.8	0			Pale grey with brown sections. Hard,	silica alt usually assoc	50/LCA at 7.2m	semi-massive sulphides (py/po-
4.7	5.9	1.2	1.2	0			interbanded sequence of highly biotitized	with sulphides. Strong	55/LCA at 11.3m	sp-gn) with vein-like qtz-sulphide
5.9	7.4	1.5	1.5	0			sulphidic rock, quartzose sst, & sericite-biotite	silica>sericite alt	60/LCA at 13.5m	segregations; intercalated with
7.4	9	1.6	1.6	0			altered blotchy rock possibly after carbonate.	elsewhere.	70/LCA at 20.2m	zones of 1-3% dissem & veinlet
9	10.6	1.6	1.55	0.05			Typically fi-med gr, sandy-textured & qtzose,	Biotite alt increases	Broken by fracts to 13m,	(many greisenous) py/po>>sp-gn
10.6	12.1	1.5	1.5	0			but ranges from silty (non-qtzose) to coarsely	with depth, as does	strongest 5-20/LCA.	Best sulphides:
12.1	13.7	1.6	1.6	0			sandy (detrital qtz to 2-3mm), & occasional	"greisenous" alteration	Unbroken below 13m.	2.15-2.6m: band 75/LCA (dips N
13.7	15.2	1.5	1.5	0			zones with lithic frags to 1.5cm. Many biotitized	comprising qtz-fluor-		at 60) of 20% dissem py-sp-gn
15.2	16.7	1.5	1.5	0			bands have below-average primary qtz content.	musc-carb-actinolite-		3.75-3.95m: 5-7% dissem py.
16.7	18.2	1.5	1.5	0				sulphide veining to		6.6-6.7m: band 60/LCA 20% py
18.2	19.7	1.5	1.5	0				2cm both high-angle &		6.7-7.1m: 3% py>>sp-gn,dissem
19.7	21.2	1.5	1.5	0				low-angle in opp		7.1-8.4m: semi-massive band
21.2	22.7	1.5	1.5	0				sense to lineation.		65/LCA of py-sp-gn (baritic?)
22.7	24	1.3	1.3	0				Occasional qtz veins,		13-13.7m: 10% dissem py-sp-gn
24	25.5	1.5	1.5	0				high-angle & <5cm		14.6-15.25m: 3-5% py-sp-gn.
25.5	27.1	1.6	1.6	0				except: 8.85-9.65m		15.25-16.25m: 2% py>sp-gn, in
27.1	28.7	1.6	1.6	0				abundant irreg qtz veins		strong sulphide veinlets //
28.7	30.2	1.5	1.5	0				to 20cm thick; & 20.7-		lineation, incl at 15.4m: 5mm
30.2	31.7	1.5	1.5	0				21.2m: qtz vein 70/LCA		gn>>py veinlet 55/LCA with 24
31.7	33.2	1.5	1.5	0				with 30% rock		grains of VISIBLE GOLD.
33.2	34.7	1.5	1.35	0.15				inclusions.		18.6-19.75m: semi-massive
34.7	36.2	1.5	1.5	0						band 70/LCA of po-sp-gn>py,
36.2	37.7	1.5	1.5	0						with 6 grains of VISIBLE GOLD.
37.7	39.2	1.5	1.5	0						19.75-20.2m: 10-15% dissem
39.2	40.7	1.5	1.5	0						po-sp-gn.
										21.2-22.2m: 3-10% dissem po>
										py>sp-gn, increasing with depth.

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DRILL ADVANCE					LITHOLOGY					
From	To	Interval	Recovered	Lost	From	To	DESCRIPTION	ALTERATION	STRUCTURE	MINERALIZATION
					22.2	32.5	INTENSELY BIOTITIZED & SULPHIDIC	Intense biotitization,	Marked lack of fracturing-	Common bedded bands of heavily
							SEDIMENTS. Dark brown, massive to finely	patchy silicification	almost unbroken.	dissem to semi-massive po-py
							banded. Moderately hard (quite soft where	(usually outside biotite	Also marked lack of non-	sp-gn(+ba?). Occasional veins
							biotitization most intense). Composed largely of	zones).	sulphide veining, apart	to 2cm (65/LCA) & irreg patches,
							of qtz (mainly detrital) and metasomatic biotite.	28.8-29.1m: qtz>barite	from some high-angle	of coarse gr gn>sp. Fi gr dissem
							After interbedded fi-med gr qtzose sst, qtzose	veining with py-sp-gn,	greisenous qtz-fluor>po-	sulphides throughout.
							siltstone & qtz microconglomerate (rounded	to 2cm // bedding.	sp-gn veining to 24.5m.	Best sulphides:
							qtz clasts usually 3-4mm, rarely to 1cm).		Well-developed regular	22.2-25.75m: Bands of semi-
							Sulphides preferentially in coarser gr zones,		bedding:	massive po>gn-sp>py, averaging
							biotitization best in finer-gr zones.		65/LCA at 23.4m.	30cm thick, separated by 15cm
									72/LCA at 24.9m & 26m.	zones of 3-20% dissem sulphides
									75/LCA at 28.8m.	Semi-massive po-qtz-fluor veins
										at 23m (4cm 70/LCA) & 23.5m
										(8cm 80/LCA), opp sense to So.
										26.25-27.8m: 5-7% gn-sp-po-py.
										27.8-28.7m: band (70/LCA) of
										15% dissem po-gn-sp>py.
										28.7-29.6m: 20% gn-sp>po>py.
										dissem & common strong veins
										29.85-31.5m: 20% dissem gn-
										sp>po>py (baritic?).
										31.5-32.5m: 15% sp-gn>po-py
										mainly in veinlets 60-70/LCA,
										incl at 31.5m: 7mm sp>gn veinlet
										65/LCA with 1.5mm GOLD grain.
					32.5	40.7	ALTERED FINE QUARTZOSE SANDSTONE.	Strong patchy silif &	Generally unbanded &	Minor sulphide veining.
							Grey & brown, hard to very hard, massive &	lesser biotitization, with	mostly unbroken.	32.5-36.2m: 1% py>po-gn-sp,
							fairly uniform. More siliceous & less meta-	former overprinting the	Bedding 75/LCA at	mainly dissem.
							somatized than unit above.	latter. Veining minor,	34.5m & 65/LCA at 36m	36.2-37m: 5-10% gn-sp>py>po
								except in strongest		in veining & fine dissem.

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								biotitized zone 36-38m,		37-38m: 5-7% gn-sp-py>po in
								where there is strong		greisenous veins & dissem.
								greisenous veining		38-40.7m: 2% py-sp-gn>po, as
								(qtz-fluor-musc-py-po-		fi gr dissem in biotite-alt zones,
								sp-gn), to 2.5cm &		& microveinlets.
								high-angle in opposite		
								sense to bedding, with		
								bleached selvages that		
								remove biotite & dissem		
								sulphides from the		
								wallrocks.		
							END OF HOLE 40.7m			
							Downhole camera surveys:			
							At 6m: Dip: - 45.5 Azimuth: 211 AMG			
							At 40.7m: Dip: - 44.7 Azimuth: 206 AMG			

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