

JERVOIS MINING NL - DRILLHOLE LOG

DRILL ADVANCE					LITHOLOGY					
From	To	Interval	Recovered	Lost	From	To	DESCRIPTION	ALTERATION	STRUCTURE	MINERALIZATION
DRILLHOLE: TC02					Logged by: J.G.Purvis			Date: 20.1.00	Depth: 43.4m	Size: NTW
					Co-ords: 5 406116N / 420974E. 845S / 1175W Grid			RL: 535m	Dip: - 90	Azimuth:
0	1.9	1.9	0.1	1.8	0	1.9	TERTIARY BASALT SOIL & FRAGMENTS.			
1.9	3.4	1.5	0.2	1.3			Weakly magnetic.			
3.4	4.9	1.5	0.1	1.4						
4.9	6.4	1.5	0.3	1.2	1.9	7.6	FINE QUARTZ SAND (TERTIARY).	Oxidized.		
6.4	7.6	1.2	0.05	1.15			Mainly fine white loose qtz sand (cuttings), with			
7.6	7.9	0.3	0.2	0.1			yellow clayey sections (cored). At approx 4m,			
7.9	9	1.1	0.75	0.35			thin band of Ordovician qtz sst pebbles to 4cm.			
9	10.3	1.3	0.8	0.5						
10.3	10.9	0.6	0.6	0	7.6	8.4	MUDSTONE (TERTIARY).	Oxidized.	Bedding 55/LCA at base	
10.9	12.4	1.5	1.45	0.05			Soft grey sticky mudstone, becoming lignitic			
12.4	13.2	0.8	0.75	0.05			below 7.9m. Orange sandy layers above 7.9m			
13.2	13.9	0.7	0.7	0						
13.9	15.4	1.5	1.5	0	8.4	8.8	LIGNITE (TERTIARY). Dark brown. Soft.		Bedding 70/LCA.	
15.4	16.9	1.5	1.5	0					Abrupt basal contact.	
16.9	18.4	1.5	1.5	0						
18.4	19.9	1.5	1.5	0	8.8	9.2	BLACK PYRITIC MUDSTONE (TERTIARY).		Abrupt basal contact	2-3% dissem pyrite.
19.9	21.4	1.5	1.5	0			Highly carbonaceous. Partly-consolidated.		along bedding 70/LCA.	
21.4	22.9	1.5	1.5	0						
22.9	23.9	1	0.9	0.1	9.2	20.8	EPIDOTE-GARNET SKARN.	Intensely altered.	Crumbly & leached to	Generally rare dissem py.
23.9	24.6	0.7	0.7	0			Pale pinkish green. Massive med gr rock	Minor low-angle calcite	10.3m, then unbroken.	16-19m: very minor thin chlorite-
24.6	25.8	1.2	1.1	0.1			composed mainly of epidote & garnet, with	veinlets.	Crude banding 85/LCA.	magnetite bands with py, cp & bi
25.8	26.9	1.1	1.1	0			lesser calcite & chlorite-actinolite. Blotchy &		Abrupt change at base.	
26.9	27.3	0.4	0.4	0			streaky "pseudoclastic" texture.			
27.3	27.6	0.3	0.3	0						
27.6	28.9	1.3	1.25	0.05	20.8	22.1	CHLORITE-MAGNETITE SKARN.	Intensely altered.	Fractured (only slightly	10-15% magnetite>>py in dissem,
28.9	29.4	0.5	0.5	0			Green & black, med gr, heavy, magnetic.		broken). Diffuse & irreg	patches & semi-massive bands
29.4	30.1	0.7	0.15	0.55			Banded chlorite-magnetite rock with lesser		banding 85/LCA. Basal	to 2cm. Py veinlets to 5mm 50/
30.1	30.2	0.1	0.1	0			garnet, epidote & calcite.		contact abrupt, 85/LCA.	LCA in opp sense to banding.
30.2	31.2	1	1	0						
31.2	31.8	0.6	0.55	0.05	22.1	23.2	FRACTURED CALC-SILICATE.	Strongly altered.	Abundant fracturing,	1-2% dissem & veinlet hematite.
31.8	32.9	1.1	1.05	0.05			Grey-green, fi-med gr rock composed largely	Abundant calcite & qtz	becoming shattered &	No sulphides or magnetite.
32.9	34.5	1.6	1.6	0			of qtz, yellowish carbonate & chlorite. After	veinlets //LCA & 90/LCA	badly broken by faulting	

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34.5	36.1	1.6	1.5	0.1			fine partly-qtzose sst with minor interbeds of non-siliceous siltstone.	hematite & greasy chlorite sericite on fractures.	below 23m. Bedding 75-85/LCA.		
36.1	37.7	1.6	1.5	0.1							
37.7	39.3	1.6	1.6	0							
39.3	40.3	1	1	0	23.2	31.85	FAULTED QUARTZ SANDSTONE.	Strongly silicified & siliceous	Abund fracts (some with crush seams), strongest	To 25m: minor py or limonite/ hematite after py.	
40.3	41.9	1.6	1.55	0.05			Grey, fi-med gr, very hard. Slightly impure qtz sst, shattered & badly broken by major fault.	oxidized. Patchy chlorite-sericite-cb alt where impure. Fract-fillings & veinlets of qtz, chlorite, sericite, hematite, calcite epidote or limonite.	5-25/LCA. Fault centred below 30m with intense shattering & cleavage 70/LCA. So in siltst 80/LCA. Basal contact So 90/LCA.	25-25.6m: 1% py (or limonite) in high-angle veinlets & dissem. 25.6-31.85m: minor py, dissem & high-angle veinlets, incl qtz-py veins to 15mm at 30.8-31.4m.	
41.9	43.4	1.5	1.5	0			Minor sericitic siltstone laminae.				
					31.85	33.9	SERICITIC SILTSTONE.	Weakly biotitized, conc around qtz sst lenses & sericitic siltstone.	So 80/LCA. Fractured & broken in places (strongest fracts near //LCA). Basal contact So 80/LCA	Minor veinlet > dissem py. Veinlets qtz-py & high-angle. 32.05m: 1cm qtz-py vein //So.	
					33.9	37.5	ALTERED SILTY SANDSTONE & SKARN.	Strongly altered: mainly chlorite (+cb), silica & biotite.	Unusual wavy & streaky bedding 85/LCA. Small fault 90/LCA at base.	2% py>po, dissem & in calcite veinlets. Sulphides best in strongest chlorite or biotite alt. 37.1m: 1cm qtz-py vein 90/LCA.	
							Dark green & fawny brown, hard. Complex mixed zone, incl altered fine qtzose sst, chlorite-actinolite-qtz skarn (minor detrital qtz), & sericitic siltstone.	Common red hematitic calcite veinlets (+py).			
					37.5	43.4	BIOTITIZED SANDSTONE & SILTSTONE.	Mild biotite>chlorite alt, decreasing with depth.	Finely bedded 85/LCA. Slightly broken to 40m by low-angle fractures	Minor py, dissem & in occasional strong high-angle calcite(-qtz)-py veins.	
							Dark brownish-grey, fi gr, moderately siliceous silty sandstone & siltstone (latter increasingly common with depth).	Calcite veins (red to 41m then white).	faced with hematitic calcite.	38.1-38.4m: 3 x 5-15mm calcite-py veins 60-80/LCA.	
							END OF HOLE				