

JERVOIS MINING NL - DRILLHOLE LOG

DRILLHOLE: NC16					Logged by: J.G.Purvis			Date: 19.12.99	Depth: 61.0m	Size: NTW
					Co-ords: 5 406643N / 425667E, (4992N / 6100E Grid)			RL: 540m (est)	Dip: -45	Azimuth: 213 AMG
DRILL ADVANCE					LITHOLOGY					
From	To	Interval	Recovered	Lost	From	To	DESCRIPTION	ALTERATION	STRUCTURE	MINERALIZATION
0	1.1	1.1	0.5	0.6	0	1	SOIL.			
1.1	1.5	0.4	0.3	0.1						
1.5	2.5	1	1	0	1	11.9	OXIDIZED ALTERED QUARTZOSE	Moderate patchy biotite	Badly fractured & broken	Strong limonite stains & bxwks
2.5	3.8	1.3	1.3	0			SANDSTONE. Brown & grey. Limonitic, fine	alt. Moderate to strong	with some clay seams,	on fractures.
3.8	4.6	0.8	0.8	0			to med gr qtzose sandstone. Calc-silicate	oxidation.	esp above 6.5m.	No sulphides in less-oxidized
4.6	5.5	0.9	0.9	0			band at 3-4m. Common thermal metamorphic	Qtz-musc vein, to 1cm,	Bedding at 3m: 55/LCA.	sections.
5.5	6.6	1.1	1.05	0.05			mineral 'spotting'. Probable bioturbation at	at 7-8m //LCA.	Abrupt basal contact 40/	
6.6	8.2	1.6	1.5	0.1			9-10m.	5cm qtz vein 70/LCA at	LCA (// mineral lineation)	
8.2	9.1	0.9	0.9	0				9.3m.		
9.1	10	0.9	0.85	0.05						
10	11.5	1.5	0.95	0.55	11.9	21.8	QUARTZ-BIOTITE ALTERED QUARTZ	Moderate to locally	13-15.5m: broken faulted	12.3-13.1m: 2% dissem & veinlet
11.5	11.9	0.4	0.4	0			SANDSTONE. Greyish-brown. Locally hard.	strong silica-biotite alt,	zone with clay seams.	py, trace sp.
11.9	13	1.1	1.05	0.05			Mainly fine to coarse gr qtz sst, with occasional	Common 'spots', small	Bedding 14.7m: 60/LCA	13.7-14.1m: 2-3% py.
13	13.9	0.9	0.7	0.2			silty bands. Strong pyritization below 17.4m.	patches & tiny veinlets	Probable bedding 55/LCA	15.2-17.4m: 1% py, trace sp.
13.9	14.5	0.6	0.6	0				of greisenous qtz-musc	at 21m.	17.4-18.7m: 2% patchy dissem py
14.5	14.8	0.3	0.3	0				Minor oxidation to 15m.		18.7-21.8m: 7-10% dissem py,
14.8	16	1.2	1.1	0.1				Minor qtz veins, largest:		minor sp (latter increasing with
16	17.5	1.5	1.5	0				12.6m: 12mm qtz-py		depth).
17.5	19	1.5	1.5	0				vein 65/LCA; 12.9m:		16-17.3m: 5-10mm qtz-musc-py
19	20.5	1.5	1.5	0				20mm qtz vein 60/LCA.		vein //LCA. 20-20.7m: py-musc>
20.5	22	1.5	1.5	0						sp vein, 5mm, //LCA.
22	23.5	1.5	1.5	0						
23.5	25	1.5	1.5	0	21.8	30.15	STRONGLY BIOTITIZED ZONE.	Very strong biotite alt.	Bedding 60/LCA at 23m,	21.8-25m: 3-5% py>sp, dissem>
25	26.5	1.5	1.5	0			Dark brown. More variable grainsize than in	Minor garnet.	75/LCA at 24.4m,	veinlets, sp best above 23.2m.
26.5	28	1.5	1.5	0			units above. Mainly fine to coarse gr bedded	Below 27.8m biotite	Upper contact diffuse,	25-25.35m: semi-massive py>>
28	29.5	1.5	1.5	0			qtzose sst, with silty intervals (largest 24.4-	decreases: rock is qtz>	lower abrupt (high angle)	sp, banded 70/LCA.
29.5	30.6	1.1	0.75	0.35			25.1m). In coarse gr bands some detrital qtz	biotite alt.		25.35-26.5m: 2% py, very patchy
30.6	31	0.4	0.25	0.15			to 3-4mm.			26.4m: 10mm py>sp vein 20/LCA
31	31.5	0.5	0.5	0						26.5-29.8m: minor py.
31.5	32.5	1	1	0						29.8-30.15m: 2-3% py, minor sp
32.5	34	1.5	1.5	0						

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DRILL ADVANCE					LITHOLOGY					
From	To	Interval	Recovered	Lost	From	To	DESCRIPTION	ALTERATION	STRUCTURE	MINERALIZATION
34	35.5	1.5	1.5	0	30.15	31	FAULT. To 30.6m, grey sulphidic clay after rock type above. Below 30.6m, yellow clay after calc-silicate.		Strong fault.	30.15-30.6m: 3% py>sp, dissem
35.5	37	1.5	0.85	0.65						30.6-31m: minor py.
37	37.8	0.8	0.65	0.15						
37.8	38.3	0.5	0.5	0						
38.3	39.4	1.1	1.1	0	31	36.1	STRONGLY ALTERED QUARTZOSE SANDSTONE. Yellowish & brownish-grey. Med gr, very hard siliceous rock with abundant detrital qtz & unusual blotchy & streaky texture. Partly calc-silicate, esp above 33m.	Strong variable alt. Mainly qtz-sericite-py & minor blotchy qtz-chlor-actinolite, both overprinting qtz-biotite.	Marked cleavage 50-65/LCA.	31-33m: minor dissem py>po. 33-36.1m: 2-3% blotchy dissem py>po, trace sp.
39.4	40.9	1.5	1.5	0						
40.9	42.4	1.5	1.5	0						
42.4	43.5	1.1	1.1	0						
43.5	44.5	1	1	0						
44.5	46	1.5	1.5	0						
46	47.5	1.5	1.5	0	36.1	37.6	FAULTED CALC-SILICATE. Fawny-grey. Crumbly highly leached calc-silicate rock, now composed mainly of sugary qtz. Almost 50% core loss.	Remanent qtz-biotite alteration in places.	Very badly broken. Basal contact abrupt & high angle.	Occasional veinlets (<3mm) of py-sp(+cp) near upper & lower contacts, overall minor sulphides
47.5	49	1.5	1.5	0						
49	50.5	1.5	1.5	0						
50.5	52	1.5	1.5	0						
52	53.5	1.5	1.5	0						
53.5	55	1.5	1.5	0	37.6	40.25	STRONGLY ALTERED QUARTZOSE SANDSTONE. Similar to rock at 31-36m. Pale yellowish or brownish grey, med gr qtzose sst with marked lineation.	Strong qtz>sericite alt, with abrupt change to qtz-biotite alt at 38.4m.	Cleavage in sericitic sections, 60/LCA. Fractured & broken to 38.5m. Gradational change at base.	37.6-39.3m: minor dissem py. 39.3-40.25m: minor to 1% py, much in veinlets.
55	56.5	1.5	1.5	0						
56.5	58	1.5	1.5	0						
58	59.5	1.5	1.45	0.05						
59.5	61	1.5	1.5	0						
					40.25	41.3	SKARN? Dark green, very hard. Fine-grained siliceous rock composed of qtz, ferromags, chlorite & sulphides. Moderate amounts of med gr detrital qtz.	Intense silicification, with chlorite/ferromag alteration.	Basal contact abrupt & broken.	3-5% py>>po, dissem.
					41.3	51.35	MINERALIZED ZONE. Dark brown & grey, hard. Bands(//So) of fi-gr disseminated py-po-sp-gn in strongly biotite-altered fine to coarse gr qtz sst (qtz grains to 3mm). Best sulphs tend to be in coarser-gr	Very strong biotite>>qtz alteration, with patches of qtz-chlor-ferromag as noted. 47.25m: 3cm cb-tourm-	Unbroken. Well-developed bedding: 75/LCA at 42.4m; 70/LCA at 43.1m; 60/LCA at 45m; 50/LCA at 47m.	41.3-43.1m: +25% dissem po-py>gn>cp, in coarse gr sst. Two 10cm semi-massive sp-gn rich bands in top 50cm, 65/LCA. Abrupt change py to po at 42m.

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							sst. Relatively minor sulphide veins. Bands of fi-gr green qtz-chlor-ferromag alt (as at 40.3-41.3m) at 46.4-47.3m & 50.3-50.5m.	py vein, 20/LCA.	Sulphides decrease abruptly at base - not a lithological contact.	43.1-45m: 10-20% po>py>sp-cp, mainly banded dissem but 1cm irreg py-cp>sp veins 44.7-45m.			
										45-45.8m: 2-3% dissem & veinlet py>>po, minor sp.			
										45.8-47.45m: 5% py>>po, mainly in coarse gr veinlets & clots.			
										47.45-48.8m: massive sulphide			
										60% po>cp-gn-sp in subordinate biotite-tourm?-qtz gangue. Fine banding & contacts 60-70/LCA.			
										48.8-49.5m: 10-20% fine dissem py & in qtz-fluor-py veins.			
										49.5-51.35m: 5-10% py, minor cp & po, dissem & veinlets (+qtz).			
					51.35	61	BIOTITIZED QUARTZ SANDSTONE. Brown & grey. Hard. Altered fine to medium grained qtz sst. Above 54m sst is silty.	Moderate to strong, silty patchy biotite-qtz alt (bi strongest above 57m), overprinted by silif-blea assoc with qtz-musc-cb (+chlorite & fluorite) greisen veins 15/LCA. Largest veins: 55.6m (3cm, trace wolfram); 55.8m: 2cm (minor py); 57.7m: 1cm (trace wolf); 57.9-58.2m: 4cm (py, wolf, bismuthinite?)	Fine bedding 53-54m: 60/LCA. Moderately fractured & broken in basal 1m.	51.35-55.7m: very minor py, mostly in greisen veinlets.			
										55.7-57m: 3-5% fine dissem py in strongly biotitized sst.			
										57-58.7m: minor py, trace wolf-bi			
										58.7-60.3m: 3% py in strongly biotitized zone, mostly dissem, also in veinlets+-qtz.			
										60.3-60.7m: very minor py.			
										60.7-60.9m: 3% py in bio band.			
										60.9-61m: nil			
							Camera survey @ 61m: Dip: -45. Azimuth: 213 AMG.						
							END OF HOLE						

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