DRILLHOLE: NC15					Logged by: J.G.Purvis			Date: 8.12.99	Depth: 55.7m	Size: NTW
					Co-ords: 5 406636N / 425762E, (5032N / 6200E Grid)			RL: 565m (est)	Dip: - 45	Azimuth: 213 AMG
DRILL ADVANCE					LITHOLOGY					
From	To	Interval	Recovered	Lost	From	To	DESCRIPTION	ALTERATION	STRUCTURE	MINERALIZATION
0	0.4	0.4	0.25	0.15	0	2.7	OXIDIZED QUARTZ SANDSTONE. Pale brow	Strongly oxidized &	Fractured & broken.	
0.4	0.9	0.5	0.5	0			*sugary-textured fi-med gr qtz sst with occasional*	leached. Originally	Bedding 50/LCA @ 1m.	
0.9	1.9	1	0.95	0.05			qtz grains to 3mm. Minor thin qtz veins.	mildly qtz-biotite alt.	Basal contact abrupt.	
1.9	2.7	0.8	0.65	0.15						
2.7	4.2	1.5	1.35	0.15	2.7	4.5	OXIDIZED CALC-SILICATE? Brown, fine-	Strongly oxidized:	Well-developed fine	Trace remanent pyrite.
4.2	5.7	1.5	0.7	0.8			*grained & finely-banded rock, composed of qtz,*	leached & bleached,	banding 70/LCA (So?).	
5.7	7.2	1.5	0.9	0.6			dark grey-green unident mineral, garnet & biotite	with strong Mnox stains	Mildly fractured & broken.	
7.2	8.7	1.5	1.4	0.1				Originally strongly	Abrupt basal contact.	
8.7	10.2	1.5	1.4	0.1				altered.		
10.2	11.7	1.5	1.05	0.45						
11.7	13.2	1.5	1.35	0.15	4.5	7.2	CLAYEY ZONE (OXIDIZED SKARN).	Very strongly oxidized.	Crumbly (+50% core lost)	
13.2	14.7	1.5	1.35	0.15			Green & pale brown puggy clay & very soft ox	Originally intensely		
14.7	16.2	1.5	1.5	0			rock. To 6.5m after green skarn (serpentinous	altered.		
16.2	17.7	1.5	1.5	0			*at 5.8-6.5m), below this possibly calc-silicate.*			
17.7	19.2	1.5	1.5	0						
19.2	20.5	1.3	1.3	0	7.2	11.1	QUARTZ-BIOTITE HORNFELS.	Moderate qtz-biotite alt	Fractured & mildly broken	Below 8.5m: minor dissem &
20.5	22	1.5	1.5	0			Pale brownish-grey. Hard to very hard.		Strongest fracts are sub	veinlet pyrite.
22	23.6	1.6	1.4	0.2			*Patchy thermal metamorphism of mildly*		*parallel LCA & often filled*	10.85-11.1m: strong 1-2mm
23.6	24.7	1.1	1.1	0			altered fine qtz sst. Common thermal		with 1mm greisenous	pyrite veinlets 10/LCA..
24.7	25.7	1	0.65	0.35			'spotting'. Minor garnet.		veinlets (qtz-musc-fluorite	
25.7	27.2	1.5	1.5	0					& possible wolfram).	
27.2	28.7	1.5	1.5	0					*Bedding 50/LCA at 7.8m*	
28.7	30.1	1.4	1.4	0						
30.1	31.7	1.6	1.6	0	11.1	12.4	OXIDIZED CALC-SILICATE? Only 0.6m		Upper contact a large	2% dissem & veinlet pyrite.
31.7	33.2	1.5	1.5	0			recovered. Fawn, clayey crumbly & leached		clay zone. Lower contact	
33.2	34.7	1.5	1.5	0			rock, now composed *largely of fine sugary qtz.*		*abrupt & irregular.*	
34.7	36.2	1.5	1.5	0						
36.2	37.7	1.5	1.5	0	12.4	20.5	QUARTZ-BIOTITE HORNFELS. After fi-med gr	Biotitization overprinted	Only slightly broken, but	12.4-13.4m: 2-3% py, veinlets &
37.7	39.2	1.5	1.5	0			qtz sst. Purplish-brown. Hard to very hard,	& bleached by greizen-	abund hairline fractures	dissem (py vein 5-30mm, 50/LCA,
39.2	40.4	1.2	1.2	0			& brittle. Strong alteration & thermal	*ization in diffuse veinlet*	*below 15.5m, increasing*	at 13.3m). 13.4-20.5m: 1% py,
40.4	41.9	1.5	1.5	0			metamorphism, including spotting.	of qtz-fluorite-muscovite	towards strong fault at	veinlets & dissem, locally +2%.

JERVOIS MINING NL - DRILLHOLE LOG

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DRILL ADVANCE					LITHOLOGY					
From	To	Interval	Recovered	Lost	From	To	DESCRIPTION	ALTERATION	STRUCTURE	MINERALIZATION
41.9	43.4	1.5	1.5	0				assoc with the fracts.	basal contact (rock is	Some py assoc with the greisen
43.4	45	1.6	1.6	0				Some qtz veins to 7mm	shattered towards base).	veinlets & fractures.
45	46.5	1.5	1.5	0				Minor oxidation around	At 16.5m tectonic fabric	Minor sp-gn in basal fault.
46.5	48.1	1.6	1.6	0				basal fault.	(fracts &veinlets) 55/LCA	
48.1	49.7	1.6	1.6	0						
49.7	51.1	1.4	1.4	0	20.5	23	BROKEN FAULTED ZONE. Fawny-brown.	Moderate qtz>biotite alt	Fractured & broken with	20.5-21.5m: 2-3% py on fracts &
51.1	52.7	1.6	1.6	0			Lacks the intense fracturing & greisen veining	with bleaching.	small clayey fault seams,	dissem. Trace sp-gn.
52.7	54.2	1.5	1.5	0			of unit above, otherwise rock is the same (fi-		strongest 25/LCA at	21.5-22.7m: minor py. 22.7-23m:
54.2	55.7	1.5	1.5	0			med gr qtz sst).		21.9m.	py-sp-gn seams in basal fault.
					23	28.1	MINERALIZED ZONE. Grey-brown. Hard.	Strong qtz-biotite or	Largely unbroken.	23-24m: 7-10% py>sp>gn dissem
							Sulphidic biotitized qtz sst of variable grainsize	sericite alt (latter assoc	Bedded 50-60/LCA.	24-24.5m: 5% dendritic py.
							(fine to coarse gr), with greisenous overprint.	with fine greisenous	Basal contact abrupt - an	24.5-25.4m: 2% py in greisenous
							24.15m: 2cm sericitized granitic dyke, 65/LCA.	muscovite-py veinlets).	alteration front 50/LCA in	veinlets & dissem.
							24.4m: 8mm sericitized pyritic granitic dyke,	27.75m: 2cm 40/LCA	opposite sense to So.	25.4-26.5m: 2-3% py, minor sp.
							60/LCA. Both dykes with minor molybdenite.	qtz vein, minor wolfram		26.5-27.2m: 5% py mainly dissem
								28m: 25mm, 35/LCA,		27.2-28.1m: 2% py>wolf-po-cassit
								qtz-fluor-musc-wolf vein		mainly veinlets. 27.2m: 1cm 35/
										LCA py-wolf-cp vein.
					28.1	46.6	SILICIFIED QUARTZ SANDSTONE.	Very strong silicification	Cleavage in bio-alt zones	28.1-30.6m: 1-2% py, dissem.
							Pale grey, very hard, massive, med gr.	*& weak sericitization.*	40-50/LCA.	30.6-31.2m: 3-5% dissem py.
							Occasional worm burrows (eg: 29.7m & 30.6m)	Biotitized bands (<1m)	34.5m: small fault with	33-35m: 2% py, dissem.
								above 37m.	2cm 25/LCA qtz-sericite	36-36.8m: 1-2% py, dissem &
								Below 38.5m pervasive	vein, minor wolf & moly.	veinlets (4mm py vein at 36.8m)
								greisenization (qtz-fluor-	Shear 45/LCA centred at	39-46m: 2% py, mainly veinlets.
								musc+-py), also often	30.9m.	Elsewhere, minor to 1% py.
								as facings on fracts &		45-45.8m: strong py>cp-wolf
								occasional larger veins:		vein //LCA.
								33.1m: 10cm, 45/ LCA.		
								35.3m: 2cm, 15/LCA.		

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								43.3m: 20cm, 35/LCA.		
								44.15m: 3cm, 65/LCA.		
					46.6	48.2	GREISEN VEINING IN QUARTZ SANDSTONE. Greyish-white with green tinge. Very hard. 50% fine to coarse gr qtz sst (detrital qtz grains to 3mm), altered & thermally metamorphosed. 50% large, pegmatitic fluorite>qtz-muscovite-lepidolite-cb veins. Largest vein 47.25-48.2m.	Silicified & baked, with strong pervasive qtz-muscovite-fluorite alt.	Badly broken 47.45-47.7 Most veining 40-60/LCA. Basal vein has upper contact 40/LCA, lower 25/LCA.	Almost no sulphides -trace py in basal 20cm. Minor fuchsite in basal vein.
					48.2	55.7	QUARTZ-BIOTITE HORNFELS. Grey & brown. After med-coarse gr qtz sst. Very hard. Greisenous qtz-cb-fluorite-musc-py veining (*not abundant*) post-dates biotite alt. These veins at all angles, usually 5-20mm except for 10cm vein 50/LCA at 50.5m.	Mod-strong qtz-biotite> sericite/muscovite alt. Biotitization affects 50% of interval. Muscovite is pale green colour.	Good bedding at 50.9m (3cm microconglomerate bed): 50/LCA. Largely unbroken.	48.5-50m: 2-3% py, trace cp, dissem>veinlets, in bio-alt zone 50-54.2m: 2% patchy py. 54.2-55.7m: 1% patchy py, some in greisen veins. 52.9m: 5mm qtz vein, minor wolf & moly. 53.4-53.9m: 1cm 10/LCA, qtz-cb-py-wolf-bi-cp vein. 54.2m: 5mm 30/LCA, qtz-cb-py vein, trace wolf & bismuthinite.
							END OF HOLE			