# JERVOIS MINING NL - DRILLHOLE LOG

| DRILLHOLE: NC06 | Logged by: J.G.Purvis | Date: 7.11.98 | Depth: 42.3m | Size: NTW |
|---|---|---|---|---|
| | Co-ords: 4910N / 5900E (Grid) | RL: 516m (est) | Dip: - 45 | Azimuth: 213 AMG |

| DRILL ADVANCE | | | | | LITHOLOGY | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| From | To | Interval | Recovered | Lost | From | To | DESCRIPTION | ALTERATION | STRUCTURE | MINERALIZATION |
| 0 | 0.6 | 0.6 | 0.3 | 0.3 | 0 | 2.5 | OXIDIZED QUARTZOSE SILTY SANDSTONE. | Strongly oxidized from | Banding (bedding?) in | Limonite stains. Remanent |
| 0.6 | 1.8 | 1.2 | 1.05 | 0.15 | | | Cream to grey. Very clayey & crumbly below | 1.25m. Minor qtz veins | zone above 1.25m: 60/ | 5-10% dissem py , mostly |
| 1.8 | 3 | 1.2 | 0.65 | 0.55 | | | 1.25m - may represent start of true bedrock. | in upper 30cm. | LCA (dips 15 to N). | above 1.25m. |
| 3 | 3.8 | 0.8 | 0.65 | 0.15 | | | | | | |
| 3.8 | 4.2 | 0.4 | 0.3 | 0.1 | 2.5 | 9.8 | ALTERED QUARTZOSE SANDSTONE. | Mildly ox & leached to | Badly fractured & broken | 2.5-3.3m: 5-15%% py>>sp-gn |
| 4.2 | 4.8 | 0.6 | 0.45 | 0.15 | | | Grey with brown tinge, med gr. Hard below 7m. | 7m with clayey zones. | to 7m. Pug zone (fault?) | in puggy zone. |
| 4.8 | 5.4 | 0.6 | 0.6 | 0 | | | | Mildly biotitized, with | 2.5-3m. Weak cleavage | 3.3-9.8m: Minor to 1% py-sp-gn |
| 5.4 | 6.2 | 0.8 | 0.8 | 0 | | | | weaker silica-sericite- | 60/LCA, strongest at | mainly on fractures. |
| 6.2 | 6.8 | 0.6 | 0.45 | 0.15 | | | | carbonate alt. | base. | |
| 6.8 | 7.8 | 1 | 1 | 0 | | | | Below 7m:common qtz- | | |
| 7.8 | 9.3 | 1.5 | 1.5 | 0 | | | | fluorite-muscovite-py | | |
| 9.3 | 10.8 | 1.5 | 1.5 | 0 | | | | veinlets at all angles. | | |
| 10.8 | 12.2 | 1.4 | 1.3 | 0.1 | | | | | | |
| 12.2 | 13.6 | 1.4 | 1.4 | 0 | 9.8 | 15.7 | SULPHIDIC ZONE IN ALTERED QUARTZ | Very strong biotite-qtz> | Banding in sulphides | 9.8-10.3m: 2-3% dissem py. |
| 13.6 | 14.5 | 0.9 | 0.6 | 0.3 | | | SANDSTONE. Pale grey to dark brown. | chlorite alteration | 60-70/LCA. | 10.3-10.5m: Massive sp-gn-py, |
| 14.5 | 15.3 | 0.8 | 0.8 | 0 | | | Bands of semi-massive sp-gn-py in very | assoc with sulphides. | Mostly hard & unbroken, | finely banded 60/LCA. |
| 15.3 | 16.8 | 1.5 | 1.5 | 0 | | | strongly altered sst, intercalated with lesser- | Lesser-altered zones | except around crumbly | 10.5-10.85m: 10-15% dissem |
| 16.8 | 18.3 | 1.5 | 1.5 | 0 | | | altered/sulphidic zones containing qtz veins to | contain qtz-sericite. | chloritic faults at 11.3m | py>sp-gn (3-5% to 11.05m). |
| 18.3 | 19.8 | 1.5 | 1.5 | 0 | | | 18cm thick 50-70/LCA. | | (70/LCA) & 14-14.5m. | 11.05-12.45m: Trace py. |
| 19.8 | 20.6 | 0.8 | 0.8 | 0 | | | | | Between the faults are | 12.45-13.1m: 1-2% py & trace |
| 20.6 | 21 | 0.4 | 0.4 | 0 | | | | | fractures //LCA, faced | aspy-sp-gn in qtz-veined zone. |
| 21 | 21.3 | 0.3 | 0.3 | 0 | | | | | with chlorite-muscovite. | 13.1-14.5m: 2-5% py>sp-gn, |
| 21.3 | 21.7 | 0.4 | 0.4 | 0 | | | | | Basal contact 70/LCA | dissem & patches. |
| 21.7 | 22.7 | 1 | 1 | 0 | | | | | (// banding). | 14.5-15.7m: +25% sp-gn-py, in |
| 22.7 | 24.3 | 1.6 | 1.6 | 0 | | | | | | 4 semi-massive bands 15-25cm |
| 24.3 | 25.7 | 1.4 | 1.4 | 0 | | | | | | thick within dissem sulphs. |
| 25.7 | 26.5 | 0.8 | 0.8 | 0 | | | | | | |
| 26.5 | 27.3 | 0.8 | 0.8 | 0 | 15.7 | 22.05 | CHLORITE-MAFIC-QUARTZ SKARN. Dark | Very strongly meta- | Banding 50-85/LCA, | 15.7-16m: 5% po-py, trace sp-gn |
| 27.3 | 28.8 | 1.5 | 1.5 | 0 | | | green to pale greenish-grey, mostly hard. | somatized. | (averaging 60-75/LCA). | Elsewhere trace py-sp-gn. |
| 28.8 | 30.3 | 1.5 | 1.5 | 0 | | | Variable. Bands of true skarn composed of | Veinlets of serpentine. | | 18.5-19.5m: minor magnetite. |
| 30.3 | 31.8 | 1.5 | 1.5 | 0 | | | mafics (diopside/actinolite?), chlorite, | | | 19.1m: 3.5cm band of sp-gn-py |

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| DRILL ADVANCE | | | | | LITHOLOGY | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| From | To | Interval | Recovered | Lost | From | To | DESCRIPTION | ALTERATION | STRUCTURE | MINERALIZATION |
| 31.8 | 33.3 | 1.5 | 1.05 | 0.45 | | | serpentine, garnet, carbonate & biotite, inter- | | | 75/LCA. |
| 33.3 | 34.8 | 1.5 | 1.5 | 0 | | | calated with zones of qtz-chlorite hornfels after | | | |
| 34.8 | 36.3 | 1.5 | 1.5 | 0 | | | qtz sst. Remanent qtz grit (5mm clasts) in | | | |
| 36.3 | 37.8 | 1.5 | 1.5 | 0 | | | some of the skarn sections above 17m. | | | |
| 37.8 | 39.3 | 1.5 | 1.5 | 0 | | | | | | |
| 39.3 | 40.8 | 1.5 | 1.5 | 0 | 22.05 | 24.9 | SULPHIDIC ZONE. Semi-massive sp-gn>py | Strong to intense | Banding 60-65/LCA. | 22.05-22.65m: Semi-massive |
| 40.8 | 42.3 | 1.5 | 1.5 | 0 | | | veins & bands, in skarn (diopside/actinolite?- | metasomatism. | | sp-gn-py>mag>cp. |
| | | | | | | | chlorite>quartz-biotite>carbonate). | | | 22.65-22.95m: 2% sp-gn-py-mag |
| | | | | | | | | | | 22.95-23.85m: semi-massive |
| | | | | | | | | | | fi gr sp-gn-py>mag>cp, cut by |
| | | | | | | | | | | coarse gr sp-gn veins to 3cm. |
| | | | | | | | | | | 23.85-24.9m: 10% sp-gn>py>cp |
| | | | | | | | | | | dissem & in sp-gn veins (Ba |
| | | | | | | | | | | gangue) & py-cp veins. All veins |
| | | | | | | | | | | to 1cm, 5-30/LCA, x-cut banding |
| | | | | | 24.9 | 42.3 | QUARTZ-BIOTITE HORNFELS (metasomatized | Strong biotite-silica> | Bedding 85/LCA at 27m, | Generally minor to 2% py-sp-gn, |
| | | | | | | | quartz sandstone, probably originally calcareous | chlorite alteration. | 34.5m & 41.2m. | dissem & in microveinlets, with |
| | | | | | | | Brownish-grey, fi-med gr, massive, hard to very | Patches of mafics & | Fracture set above 35m | better zones as follows: |
| | | | | | | | hard. Possible bioturbation features at 28.8m | sericite. | at low angle to LCA. | 29.65-30.3m: band 50/LCA of |
| | | | | | | | & 32.1m. | Low-angle fracture- | | 10-15% fine dissem sp-gn-py. |
| | | | | | | | | fillings of greisenous | | 33.8-34m: band 70/LCA of 5% |
| | | | | | | | | chlorite-sericite-fluor | | dissem sp-gn>py. |
| | | | | | | | | (+sulphides), to 1cm. | | 35.05-35.45m: 5% coarse gr sp- |
| | | | | | | | | | | gn-py in 15/LCA greisen veinlets |
| | | | | | | | | | | 35.65m: 2cm qtz-sp-gn-py vein |
| | | | | | | | | | | 75/LCA. |
| | | | | | | | | | | 39-39.55m & 40.85-42.3m: |
| | | | | | | | | | | 3-5% finely dissem sp-gn-py. |
| | | | | | | | END OF HOLE 42.3m | | | |

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