

FALCONBRIDGE NICKEL MINES LIMITED.

DATE: 24/4/51 Location: Approx. 64.8'S, 120' W. Bearing: East Hole No: G.B.31

Logged by: W.B. Dip: Vertical Property: Gull Pond Newfoundland.

DIP TESTS.

<u>Footage</u>	<u>Angle etched on tube</u>	<u>Corrected angle</u>
0.0	Hole collared at -90°	
662.0	87°	86°

<u>FROM</u>	<u>TO</u>	<u>DESCRIPTION</u>	<u>SAMPLE NOS.</u>
0.0	14.0	Overburden : sand and boulders.	
14.0	38.5	Fine grained, light grey to light brownish-grey siliceous, locally biotitic, well banded and locally crenulated tuff with some injected quartz, disseminated pyrites, and local chalcopyrite. Banding cuts core at angles varying from 0-30°.	
38.5	70.5	Fine grained, dark green, quartz-chlorite-cordierite andesite with local anthophyllite and biotite development and minor disseminated acicular pyrites and pyrrhotite.	
70.5	72.0	Very fine grained, dark greenish black, massive, very basic-looking trap dyke.	
72.0	96.0	Mostly fine grained, dark green, quartz-cordierite-chlorite-andesite with some anthophyllite and biotite development and minor disseminated pyrrhotite and pyrites, and traces of chalcopyrite.	
96.0	109.5	Fine grained, white to light grey, sugary, siliceous, slightly banded (?) tuff with disseminated and fracture-filling pyrites throughout.	
109.5	131.0	Fine grained, dark green, chlorite-biotite-cordierite andesite with varying amounts of disseminated pyrrhotite and pyrites and very minor chalcopyrite.	
131.0	146.0	Fine grained, greyish-green, sugary, siliceous, slightly banded and crenulated tuff (?) with varying amounts of disseminated pyrites.	
146.0	157.0	Fine grained, dark green, altered, chloritic, andesite with minor disseminated pyrites.	
157.0	169.5	Fine grained, dark green, quartz-anthophyllite-chlorite cordierite andesite, with considerable finely disseminated pyrrhotite.	
169.5	188.7	Very fine grained, cherty looking, brownish-grey, finely banded and locally crenulated tuff with minor indistinct, blotchy, cordierite development and with numerous local concentrations of disseminations and fracture-fillings (?) of pyrites. Banding cuts core at 20-30°.	
188.7	225.0	Fine grained, dark green, altered, chlorite-anthophyllite-cordierite andesite, locally biotitic and with finely disseminated acicular pyrrhotite throughout.	

FALCONBRIDGE NICKEL MINES LIMITED.

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DATE: 24/4/51 Location: Approx. 64.8'S, 120' W. Bearing: East Hole No: C.B.31.

Logged by: W.B. Dip: Vertical Property: Gull Pond, Newfoundland.

<u>FROM</u>	<u>TO</u>	<u>DESCRIPTION</u>	<u>SAMPLE NOS.</u>
225.0	228.5	Fine grained, dark green, chlorite-biotite-cordierite andesite with 15% disseminated pyrrhotite and pyrites and minor chalcopyrite.	1744
228.5	231.5	Very fine grained, greenish-grey, slightly banded, cherty rock with rare pyrites and chalcopyrite fracture-fillings.	1745
231.5	249.0	Fine grained, dark green, altered, locally biotitic, chlorite-cordierite andesite with varying amounts of disseminated pyrites and pyrrhotite and minor chalcopyrite.	
249.0	290.3	Fine grained, dark green, altered ^{chlorite-} anthophyllite-cordierite andesite, minor pyrites and pyrrhotite.	
290.3	306.3	Fine grained, intercalated dark green altered andesite and brownish-grey biotite-cordierite banded tuffaceous rock, narrow brecciated zone (2") at 291.8'.	
306.3	317.5	Fine grained, light to dark grey, slightly crenulated altered tuff, minor disseminated pyrites.	
317.5	333.6	Fine grained, dark green, quartz-cordierite-anthophyllite rock, probably altered andesite, minor pyrites and chalcopyrite.	
333.6	370.5	Very fine grained, light grey to dark brownish grey, cherty-looking, finely banded and crenulated siliceous tuff. Banding cuts core at 0-30°. Some cordierite development and minor disseminated pyrites and local sporadic chalcopyrite.	
370.5	378.3	Very fine grained, dark greenish black trap-dyke with occasional scattered felspar phenocrysts.	
378.3	380.0	Ground core.	
380.0	424.0	Fine grained, dark green quartz-biotite-chlorite-anthophyllite andesite, with varying amounts of disseminated pyrrhotite, pyrites and minor local chalcopyrite.	
424.0	452.0	Mostly very fine grained, light to medium grey siliceous cherty looking and locally sericitic, well banded and locally crenulated tuffs with varying amounts of disseminated pyrites.	
452.0	471.0	Fine grained, dark greenish black, quartz-biotite-chlorite-anthophyllite andesite to quartz biotite andesite with disseminated pyrrhotite and pyrites. Slight shear of 10' at 470.5'.	
471.0	473.7	Highly silicified altered tuffs (?) with minor disseminated pyrites.	1834

FALCONBRIDGE NICKEL MINES LIMITED.

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DATE: 24/4/51 Location: Approx. 64.8'S 120.0'W. Bearing: East Hole No: G.B.31.

Logged by: W.B.

Dip: Vertical

Property: Gull Pond, Newfoundland.

<u>FROM</u>	<u>TO</u>	<u>DESCRIPTION</u>	<u>SAMPLE NO3.</u>
473.7	479.0	Fine grained, dark greenish black, quartz-biotite-chlorite andesite with minor disseminated pyrites and pyrrhotite.	1835
479.0	507.0	Fine grained, medium grey, siliceous and locally sericitic, finely banded and crenulated tuff with occasional quartz eyes (?) and varying amounts of disseminated pyrites.	
507.0	592.0	Mostly fine grained, dark greenish-black, quartz-biotite phase of altered andesite with local anthophyllite development and varying amounts of disseminated pyrrhotite, pyrites and very minor chalcopryite.	
592.0	598.0	Fine grained, dark green, quartz-anthophyllite-biotite-cordierite (?) andesite with minor pyrrhotite and scattered blebs of chalcopryite.	1852
598.0	600.0	Fine grained, light brownish-grey, cherty looking, banded, crenulated and fractured altered tuffs with scattered pyrites and chalcopryite blebs and fracture-fillings.	1853
600.0	627.2	Fine grained, dark green, quartz-chlorite-anthophyllite-cordierite andesite with minor disseminated pyrites, pyrrhotite and traces of chalcopryite.	
627.2	663.0	Very fine grained, dark greenish black, trap dyke, highly fractured and cut by numerous fine quartz, carbonate and pyrites fracture-fillings.	

HOLE FINISHED.

Hole started 22/4/51
Hole finished 12/5/51

casing left in and hole left open.

ASSAY RECORD SHEET

Hole No. GB-31

GULLBRIDGE MINES LIMITED
Badger, Newfoundland

SAMPLE NO.	FROM	TO	LENGTH	% CU	CU Feet %	DESCRIPTION
1728	23.0	26.7	3.7	0.97	3.59	Fine grained, light brownish-grey, siliceous, well banded and locally crenulated tuff, with minor pyrite and local chalcopyrite.
1729	26.7	32.0	5.3	0.21	1.11	Similar, somewhat biotitic, and with local concentrations of disseminated pyrite.
1730	32.0	34.5	2.5	0.63	1.58	Similar, with occasional chalcopyrite blebs and fracture-fillings
1731	34.5	38.5	4.0	0.27	1.08	Similar, with minor disseminated pyrite.
1732	38.5	40.5	2.0	0.91	1.82	Fine grained, dark green, altered, chlorite-cordierite andesite with heavily disseminated pyrrhotite, pyrite and minor chalcopyrite.
1733	40.5	44.0	3.5	0.30	1.05	Fine grained, dark green, chlorite-anthophyllite-cordierite andesite, locally biotitic and with minor disseminated pyrite, pyrrhotite and traces chalcopyrite.
1734	80.0	88.0	8.0	0.21		Fine grained, dark green, chlorite-anthophyllite-cordierite andesite, with some biotitic development and with minor disseminated pyrite, pyrrhotite and traces chalcopyrite.
1735	88.0	90.0	2.0	0.46		Similar, with minor chalcopyrite.
1736	90.0	92.0	2.0	0.27		Fine grained, dark grey, quartz-biotite rock (phase of altered andesite) with minor disseminated pyrite and pyrrhotite.
1737	92.0	96.0	4.0	0.28		Fine grained, dark greyish-green, quartz-chlorite-biotite-cordierite andesite with 15% disseminated pyrrhotite, pyrite and minor chalcopyrite.
1738	109.5	119.0	9.5	0.28		Fine grained, dark green, quartz-chlorite-biotite-cordierite andesite with fine disseminated, locally acicular, pyrite and pyrrhotite with minor chalcopyrite.
1739	119.0	124.5	5.5	0.34		Fine grained, dark green, chlorite-biotite-cordierite andesite with 15% blebs and disseminated acicular pyrrhotite with minor pyrite and traces chalcopyrite.

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Badger, Newfoundland

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SAMPLE NO.	FROM	TO	LENGTH	% CU	CU Feet %	DESCRIPTION
1740	124.5	131.0	6.5	0.44		Similar to 119.0-124.5, with 15 to 20% locally heavily disseminated pyrite, pyrrhotite and minor chalcopyrite.
1741	131.0	141.0	10.0	0.25		Fine grained, greyish-green, sugary, siliceous, slightly banded and crenulated tuff (?) with 15% disseminated pyrite.
1742	141.0	146.0	5.0	0.54		Similar, with 8 to 10% disseminated pyrite and minor chalcopyrite.
1743	146.0	149.0	3.0	0.37		Fine grained, dark green, chloritic andesite cut by numerous chloritic slips and with 10% disseminated pyrite.
	149.0	225.0	NOT	SAMPLED		
1744	225.0	228.5	3.5	0.50	1.75	Fine grained, dark green, chlorite-biotite-cordierite andesite with 15% disseminated pyrrhotite and pyrite and minor chalcopyrite.
1745	228.5	231.5	3.0	0.50	1.50	Very fine grained, greenish-grey, slightly banded cherty rock with rare pyrite and chalcopyrite fracture-fillings
1746	231.5	236.5	5.0	2.57 (2.54)	12.85	Fine grained, andesitic material with 50% disseminated pyrite and 3 to 4% chalcopyrite.
1747	236.5	239.0	2.5	2.24 (1.98)	4.95	Fine grained, dark green, altered, chlorite-cordierite andesite, with 10% disseminated pyrite and pyrrhotite and minor chalcopyrite.
1748	239.0	243.5	4.5	1.34	6.03	Similar, locally biotitic and with 15% disseminated pyrrhotite and pyrite and minor chalcopyrite.
1749	243.5	249.0	5.5	0.52	2.86	Fine grained, dark green, chlorite-cordierite andesite with minor disseminated pyrite.
	249.0	262.5	NOT	SAMPLED		
1766	262.5	266.9	4.4	0.27		Fine grained, dark green, chlorite-cordierite-anthophyllite andesite, with 5% disseminated pyrite and pyrrhotite, trace chalcopyrite.
1767	266.9	269.8	2.9	0.63		Similar, with 5 to 10% disseminated pyrite and pyrrhotite and minor chalcopyrite.

SAMPLE NO.	FROM	TO	LENGTH	% CU	CU Feet %	DESCRIPTION
1768	269.8	279.6	9.8	0.31		Fine grained, dark green, altered chloritic andesite to 276.2: quite siliceous from 276.2-279.6: minor pyrite, pyrrhotite and traces chalcopyrite.
	279.6	283.4	N O T	S A M P L E D		
1769	283.4	288.0	4.6	0.22		Fine grained, dark green, altered, chlorite-anthophyllite-cordierite andesite with 3 to 5% disseminated pyrite and pyrrhotite and traces chalcopyrite.
	288.0	295.5	N O T	S A M P L E D		
1774	295.5	298.7	3.2	1.15	3.68	Fine grained, dark green, altered, chlorite-cordierite andesite with 10 to 15% disseminated pyrrhotite and 5% chalcopyrite.
1775	298.7	303.0	4.3	1.12	4.82	Fine grained, intercalated cherty tuff (?) and altered andesite with 3% chalcopyrite blebs.
1776	303.0	306.3	3.3	1.18	3.89	Mostly very fine grained, medium-grey, cherty, banded and locally crenulated tuff with 3% scattered chalcopyrite blebs.
	306.3	320.5	N O T	S A M P L E D		
1796	320.5	325.5	5.0	0.19	0.95	Fine grained, dark green, quartz-anthophyllite-cordierite andesite with minor pyrrhotite.
1797	325.5	326.8	1.3	0.40	0.52	Similar, with minor chalcopyrite.
1798	326.8	333.5	6.7	0.07	0.47	Fine grained, dark green quartz-anthophyllite-cordierite andesite with traces pyrrhotite and chalcopyrite.
	333.5	345.0	N O T	S A M P L E D		
1799	345.0	348.0	3.0	0.89	2.67	Very fine grained, grey, cherty, banded and crenulated tuffs cut by numerous quartz fracture-fill ^{ing} and with minor disseminated chalcopyrite.
	348.0	380.0	N O T	S A M P L E D		
1800	380.0	383.5	3.5	0.67	2.34	Fine grained, dark-greyish-green, siliceous, quartz-biotite phase of altered andesite with finely disseminated pyrrhotite and chalcopyrite.
1801	383.5	387.5	4.0	0.92	3.68	Similar, with 2 to 3% chalcopyrite.

GULLBRIDGE MINES LIMITED
Badger, Newfoundland

SAMPLE NO.	FROM	TO	LENGTH	% CU	CU	DESCRIPTION
1802	387.5	397.5	10.0	0.08		Fine grained, dark greenish-black, quartz-anthophyllite-biotite-magnetite andesite with 8 to 10% disseminated pyrrhotite and trace chalcopryite.
	397.5	399.0	CORE	GROUND		
1803	399.0	409.0	10.0	0.07		Fine grained, dark greenish-black, somewhat cherty-looking, quartz-biotite phase of highly altered andesite with finely disseminated pyrite, pyrrhotite, and traces chalcopryite.
1804	409.0	419.0	10.0	0.04		Similar.
1805	419.0	424.0	5.0	0.39		Similar, with minor fine chalcopryite.
1806	424.0	427.0	3.0	Nil		Very fine grained, light to medium grey, cherty-looking, siliceous very highly crenulated tuff with 10% finely disseminated pyrite.
1807	427.0	429.0	2.0	1.09 (1.13)		Fine grained, banded, siliceous tuffs with 60% heavily disseminated to massive pyrite with minor chalcopryite.
1808	429.0	433.0	4.0	0.40		Fine grained, medium grey, siliceous, finely-banded and crenulated tuff with 15% disseminated pyrite and minor chalcopryite. Banded at 25°.
1809	433.0	435.2	2.2	0.68		Similar, locally sericitic and with 15 to 20% locally heavily disseminated pyrite with minor chalcopryite.
1810	435.2	438.2	3.0	0.60		Fine grained, grey, siliceous, well-banded tuff, with 15 to 20% disseminated interlamellar pyrite and traces chalcopryite, banded at 10 to 15°.
1811	438.2	442.0	3.8	0.51		Similar to 429.0-433.0 with 15% disseminated pyrite.
1812	442.0	448.7	6.7	0.11		Fine grained, grey, cherty-looking, siliceous, well-banded, tuff with 15% disseminated and interlamellar pyrite, banded at 20°.
1813	448.7	452.0	3.3	0.15		Very fine grained, light grey, siliceous, cherty tuff (?) with 10 to 12% disseminated euhedral pyrite.

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Badger, Newfoundland

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SAMPLE NO.	FROM	TO	LENGTH	% CU	CU	DESCRIPTION
1814	452.0	462.0	10.0	0.36		Fine grained, dark greenish-black, quartz-chlorite-biotite-anthophyllite-magnetite andesite with 10 to 12% disseminated pyrrhotite, pyrite and traces chalcopyrite.
1815	462.0	471.0	9.0	0.12		Fine grained, dark greenish-black, quartz-biotite phase of altered andesite with 8 to 10% finely disseminated pyrite and pyrrhotite. Slight 10° shear at 470.5.
1834	471.0	473.7	2.7	0.05		Highly silicified altered tuffs with minor disseminated pyrite.
1835	473.7	479.0	5.3	0.10		Fine grained, dark greenish-black, quartz-biotite-chlorite andesite with minor disseminated pyrite and pyrrhotite.
1836	479.0	482.0	3.0	0.05		Fine grained, medium grey, siliceous and locally sericitic, finely banded and crenulated tuff with occasional quartz eyes and minor disseminated pyrite.
	482.0	485.0	C O R E	G R O U N D		
1837	485.0	486.0	3.0	0.07		Similar to 479.0-482.0. Banded at 20°.
1838	486.0	496.0	10.0	0.15		Similar to 479.0-482.0.
1839	496.0	507.0	9.0	0.10		Similar, banding locally parallel to core.
1840	507.0	517.0	10.0	0.10		Fine grained, dark greenish-black, quartz-biotite phase of altered andesite with 10% disseminated and fracture-fill pyrite and traces chalcopyrite.
1841	517.0	527.0	10.0	0.07		Similar.
1842	527.0	536.0	9.0	0.15		Similar, with 10 to 15% disseminated pyrrhotite and disseminated and fracture-filling pyrite.
1843	536.0	545.0	7.0	0.40		Similar, with 15% disseminated pyrrhotite and pyrite and 2 to 3% fine chalcopyrite.
1844	545.0	555.0	10.0	0.35		Similar to 536.0-545.0 with 15% finely disseminated pyrrhotite and pyrite, tight 50° minor shear at 552.0.

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Badger, Newfoundland

SAMPLE NO.	FROM	TO	LENGTH	% CU	CU	DESCRIPTION
1845	555.0	565.0	10.0	0.15		Fine grained, dark brownish-grey, quartz-biotite phase of altered andesite with 15% finely disseminated pyrrhotite and pyrite.
1846	565.0	571.0	6.0	0.70 (0.68)		Similar, with some anthophyllite development and with 10% disseminated pyrrhotite and pyrite and 2% local disseminated and blebs chalcopyrite.
1847	571.0	577.0	6.0	0.60		Similar.
1848	577.0	579.0	2.0	0.85		Similar, with minor pyrrhotite, pyrite and traces chalcopyrite.
1849	579.0	583.0	4.0	1.65		Similar, with 15% finely disseminated pyrite and considerable finely disseminated chalcopyrite.
1850	583.0	588.0	5.0	0.80 (0.83)		Fine grained, dark greenish-black, quartz-biotite-anthophyllite phase of altered andesite with 3 to 5% very finely disseminated chalcopyrite.
1851	588.0	592.0	4.0	0.75		Similar, with finely disseminated pyrrhotite and 4 to 5% very finely disseminated and fracture-fill chalcopyrite.
1852	592.0	598.0	6.0	0.45		Fine grained, dark green, quartz-anthophyllite-biotite-cordierite (?) andesite with minor pyrrhotite and scattered chalcopyrite blebs.
1853	598.0	600.0	2.0	0.45		Fine grained, light brownish-grey, cherty-looking, banded, crenulated and fractured, altered tuffs with scattered pyrite and chalcopyrite blebs and fracture-fillings.
1854	600.0	602.5	2.5	0.40		Fine grained, dark green, quartz-chlorite-anthophyllite-cordierite andesite with minor biotite and 10% disseminated pyrite and pyrrhotite and minor chalcopyrite.
1855	602.5	607.5	5.0	0.25		Fine grained, dark green, quartz-anthophyllite-chlorite-cordierite andesite with minor disseminated pyrrhotite and pyrite and traces chalcopyrite.
	607.5	612.0	4.5	C O R E		G R O U N D
1856	612.0	615.5	3.5	0.55		Similar to 602.5-607.5 with 15% disseminated pyrrhotite, pyrite and traces chalcopyrite.
1857	615.5	619.5	4.0	0.15		Similar with 8 to 10% disseminated pyrrhotite and pyrite.

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Badger, Newfoundland

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SAMPLE NO.	FROM	TO	LENGTH	% CU	CU	DESCRIPTION
1858	619.5	622.5	3.0	0.40 (0.44)		Similar with minor disseminated pyrrhotite, pyrite and chalcopyrite.
1859	622.5	627.2	4.7	0.15		Similar, locally slightly biotitic.
<u>Summary:</u>						
	23.0	44.0	21.0	0.19		
	88.0	98.0	8.0	0.32		
	109.5	149.0	39.5	0.35		
	225.0	231.5	6.5	0.50		
	231.5	243.5	12.0	2.04		
	262.5	279.6	17.1	0.35		
	295.5	306.3	10.8	1.15		
	345.0	348.0	3.0	0.89		
	380.0	387.5	7.5	0.84		
	427.0	442.0	15.0	0.60		
	538.0	615.5	77.5	0.53		

FALCONBRIDGE NICKEL MINES LIMITED

Gullbridge Mines Limited

ASSAY AVERAGES

Gull Pond, Nfld.

<u>Sample No.</u>	<u>From</u>	<u>To</u>	<u>Length</u>	<u>% Cu</u>
1744	225.0	228.5	3.5	0.50
1745	228.5	231.5	3.0	0.50
1746	231.5	236.5	5.0	2.57
1747	236.5	239.0	2.5	1.98
1748	239.0	243.5	4.5	1.34
1749	243.5	249.0	5.5	0.52
	225.0	249.0	24.0	1.25
1745	231.5	236.5	5.0	2.57
1747	236.5	239.0	2.5	1.98
1748	239.0	243.5	4.5	1.34
	231.5	243.5	12.0	1.98
1774	295.5	298.7	3.2	1.15
1775	298.7	303.0	4.3	1.12
1776	303.0	306.3	3.3	1.18
	295.5	306.3	10.8	1.14

Summary:

225.0	249.0	24.0	1.25
231.5	243.5	12.0	1.98
295.5	306.3	10.8	1.14