DIAMOND DRILLING

Township: Hawkins

Report No: 16

WORK PERFORMED FOR: Falconbridge Ltd.

RECORDED HOLDER: SAME AS ABOVE [x]

: OTHER [ ]

CLAIM NO.	HOLE NO.	FOOTAGE	DATE	NOTE
P 758693	GO-40	150m	Feb/85	(1)
P 698388	GO-39	112.8m	Jan/85	(1)
P 758693	GO-41	85m	Feb/85	(1)
"	GO-42	113m	"	(1)
P 698404	GO-43	89m	"	(1)
P 698402	GO-44	176m	Mar/85	(1)
P 698401	GO-45	191.12m	"	(1)
"	GO-46	176m	"	(1)
P 758693	GO-47	153m	Mar-Apr/85	(1)
P 698401	GO-48	107m	Apr/85	(1)
P 698396	GO-49	182m	"	(1)
P 698411	GO-50	114m	"	(1)
"	GO-51	185m	"	(1)
	13	1833.92		

NOTES: (1) #106-86

FALCONBRIDGE NICKEL MINES LIMITED

DIAMOND DRILL RECORD

LOCATION L1 + 00E, 0 + 50S DIRECTION AZ 360° DIP -45° HOLE No. GO-39

LOGGED BY Bruce Miller CASING 3.4 m SHEET No. 1

STARTED January 27, 1985 CORE SIZE BQ CORRECTED TESTS 3m - 42.6°, 33m - 39.5°, 63m - 37.2°, 93m - 39°

FINISHED January 29, 1985

PROPERTY Gervais Option, Oba, Ontario (PN 508)

FROM	TO		SUMMARY LOG DESCRIPTION
0.0	3.4		CASING
3.4	9.2		MAFIC AMPHIBOLITE 1a, b (2a)
9.2	21.46		FELSIC GNEISS COMPLEX 2ab (1a) (METAVOLCANICS)
21.46	25.88		MAFIC AMPHIBOLITE 1a, b (2a)
25.88	106.94		FELSIC GNEISS COMPLEX 2ab, (1a, b) (METAVOLCANICS)
106.94	112.8		MAFIC AMPHIBOLITE 1a, b (2a)
	112.8		END OF HOLE

Contractor: Bradley Brothers Diamond Drilling Limited, Timmins, Ontario.

Core is being stored at camp on Gervais property southeast of Oba, Ontario.

Richard Kenny

FALCONBRIDGE NICKEL MINES LIMITED

DIAMOND DRILL RECORD

LOCATION L1 + 00E, 0 + 50S DIRECTION AZ 360° DIP -45° HOLE No. GO-39

LOGGED BY Bruce Miller CASING 3.4 m SHEET No. 1

STARTED January 27, 1985 CORE SIZE BQ CORRECTED TESTS 3m - 42.6°, 33m -

FINISHED January 29, 1985 39.5°, 63m - 37.2°, 93m - 39°

PROPERTY Gervais Option, Oba, Ontario (PN 508)

FROM	TO		DESCRIPTION
0.0	3.4		CASING
3.4	9.2		MAFIC AMPHIBOLITE 1a, b (2a) Fine grained dark green massive mafic amphibolite with occasional hairline quartz veinlets. Well fractured with oxidized fracture coatings. Nil sulphide mineralization. 4.8 - 4.9 Felsic metatuff? band - fine grained 5.5 - 5.6 Felsic metatuff? band - fine grained 5.77 - 5.82 Felsic metatuff? band - fine grained
9.2	21.46		FELSIC GNEISS COMPLEX 2ab (1a) (METAVOLCANICS) Fine and medium grained medium grey felsic metatuffs? and/or gneisses with occasional gash quartz vein. Interlayering of aphanitic and fine grained medium grey felsic bands with variably textured medium grey felsic gneiss. Includes weak sericite alteration and nil to trace pyrite mineralization. PYrite occurs in disseminations as well as fracture coatings which are oxidized/gossaned. 9.2 - 10.14 Fine grained felsic unit - medium grey 9.79 - 9.93 Fine grained layered amphibolite band 10.14 - 11.0 Fine to medium grained felsic band 10.34 - 10.74 Aphanitic felsic band 11.0 - 11.26 Aphanitic felsic band 11.26 - 14.37 Fine to medium grained medium grey mottled felsic unit

FALCONBRIDGE NICKEL MINES LIMITED

DIAMOND DRILL RECORD

LOCATION_____ DIRECTION_____ DIP_____ HOLE No. GO-139

LOGGED BY_____ CASING_____ SHEET No. 2

STARTED_____ CORE SIZE_____ CORRECTED TESTS_____

FINISHED_____

PROPERTY_____

FROM	TO		DESCRIPTION
			14.37 - 16.34 Fine grained medium grey felsic band
			16.34 - 19.17 Medium grained (variably textured in part) medium grey felsic gneiss
			19.17 - 20.13 Fine to medium grained mottled and variably textured felsic metatuff?/gneiss band
			20.13 - 21.28 Aphanitic felsic band - massive felsic flow?
			20.6 - 20.83 Fine grained layered amphibolite band
			21.28 - 21.46 Fine to medium grained moderately porphyritic felsic band
21.46	25.88		MAFIC AMPHIBOLITE 1a, b (2a)
			Fine grained massive and layered mafic amphibolite with two 10 cm felsic bands. A greater portion is massive amphibolite which has occasional felsic wisps and 1 cm horizons with 3 mm pyrite cubes - nil pyrite overall with the exception of hairline pyrite coatings (both discordant and concordant fractures).
			21.46 - 21.95 Fine grained massive amphibolite
			21.95 - 22.05 Fine grained felsic metatuff? band
			22.05 - 22.6 Fine grained layered amphibolite
			22.6 - 24.45 Fine grained massive amphibolite
			24.45 - 24.54 Fine grained felsic metatuff? band
			24.54 - 25.88 Fine grained layered amphibolite
25.88	106.94		FELSIC GNEISS COMPLEX 2a, b (1a, b) (METAVOLCANICS)
			Medium grey felsic metatuffs ?and gneisses which transitionally

FALCONBRIDGE NICKEL MINES LIMITED

DIAMOND DRILL RECORD

LOCATION_____ DIRECTION_____ DIP_____ HOLE No. G0-39

LOGGED BY_____ CASING_____ SHEET No. 3

STARTED_____ CORE SIZE_____ CORRECTED TESTS_____

FINISHED_____

PROPERTY_____

FROM	TO		DESCRIPTION
			change from fine grained to medium to fine grained phases progressively as the hole deepens. These rocks are evenly textured (uniform consistancy) with a well developed foliated fabric.
			Included are bands of fine grained felsics and mafics which are relatively unaltered and nonmineralized.
			Fine grained felsic metatuffs? in contact with the mafic amphibolites are sericitic and contain trace to ½% disseminated pyrite.
			Medium grained felsic gneiss has nil to trace disseminated pyrite and is unaltered.
			Gash clear quartz veins are present throughout and may or may not be mineralized.
			25.88 - 30.6 Fine grained medium grey felsic metatuffs?
			26.41 - 26.49 Fine grained layered amphibolite
			26.73 - 26.75 Fine grained layered amphibolite
			27.3 - 27.55 Fine grained layered amphibolite
			27.86 - 28.36 Interlayered fine grained layered amphibolite and felsic metatuffs
			30.6 - 30.8 Fine grained silicified mafic band
			30.8 - 48.84 Medium grained medium grey felsic gneiss with occasional to rare gash clear quartz veins
			32.86 - 32.94 Fine grained felsic to intermediate band
			32.99 - 33.19 Fine grained felsic to intermediate band

FALCONBRIDGE NICKEL MINES LIMITED

DIAMOND DRILL RECORD

LOCATION_____ DIRECTION_____ DIP_____ HOLE No. GO-39

LOGGED BY_____ CASING_____ SHEET No. 4

STARTED_____ CORE SIZE_____ CORRECTED TESTS_____

FINISHED_____

PROPERTY_____

FROM	TO		DESCRIPTION
			37.54 - 37.71 Fine grained mafic amphibolite band
			37.78 - 37.80 Fine grained mafic amphibolite band
			40.01 - 40.06 Fine grained felsic band
			40.33 - 40.69 Fine grained felsic band
			40.92 - 41.51 Fine grained felsic band
			46.98 - 47.88 Fine grained felsic band
			48.59 - 48.70 Fine grained felsic band
			48.84 - 50.34 Fine grained felsic band
			50.34 - 71.8 Medium to coarse grained medium grey felsic gneiss with occasional gash quartz veins (clear)
			71.8 - 72.02 Fine grained felsic band
			72.02 - 80.7 Medium grained medium grey weakly mottled felsic gneiss with occasional clear gash quartz veins and weak sericite alteration. Nil to trace pyrite.
			72.16 - 72.48 Fine grained felsic band
			73.76 - 73.79 Fine grained mafic band
			74.54 - 74.58 Fine grained felsic to intermediate band
			77.5 - 77.69 Fine grained massive amphibolite band
			80.7 - 106.94 Fine grained medium grey felsic metatuffs? including moderate sericite alteration and trace to ½% disseminated pyrite
			85.69 - 89.75 Gash white/cloudy quartz vein
			86.14 - 86.24 Gash white/cloudy quartz vein

FALCONBRIDGE NICKEL MINES LIMITED

DIAMOND DRILL RECORD

LOCATION_____ DIRECTION_____ DIP_____ HOLE No. GO-39

LOGGED BY_____ CASING_____ SHEET No. 5

STARTED_____ CORE SIZE_____ CORRECTED TESTS_____

FINISHED_____

PROPERTY_____

FROM	TO		DESCRIPTION
			87.16 - 87.69 Aphanitic felsic band - trace to ½% pyrite
			89.07 - 89.12 Aphanitic felsic band
			89.24 - 89.39 Aphanitic felsic band
			92.84 - 93.8 Aphanitic felsic band
			104.96 - 105.1 Aphanitic felsic band
			105.14 - 105.31 Aphanitic felsic band
			105.31 - 105.56 Fine grained layered amphibolite band
			105.56 - 105.71 Aphanitic felsic band - alkali enriched
			105.71 - 106.13 Fine grained layered amphibolite band
			105.98 - 106.06 Aphanitic felsic band - alkali enriched
			106.13 - 106.94 Fine grained weakly porphyritic felsic band - weakly alkali enriched
106.94	112.8		MAFIC AMPHIBOLITE 1a, b (2a)
			Fine grained mafic layered and massive mafic amphibolite - included are narrow fine grained felsic metatuff? bands. The presence of narrow felsic wisps distinguishes layered from massive amphibolite units.
			Pyrite disseminations and hairline fracture coatings are the extent of pyrite mineralization which is minimal.
			Minor concordant gash quartz veins are present.
			106.94 - 111.51 Layered mafic amphibolite
			107.15 - 107.37 Fine grained felsic metatuff band
			111.51 - 112.8 Massive mafic amphibolite

FALCONBRIDGE NICKEL MINES LIMITED

DIAMOND DRILL RECORD

LOCATION_____ DIRECTION_____ DIP_____ HOLE No. GO-39

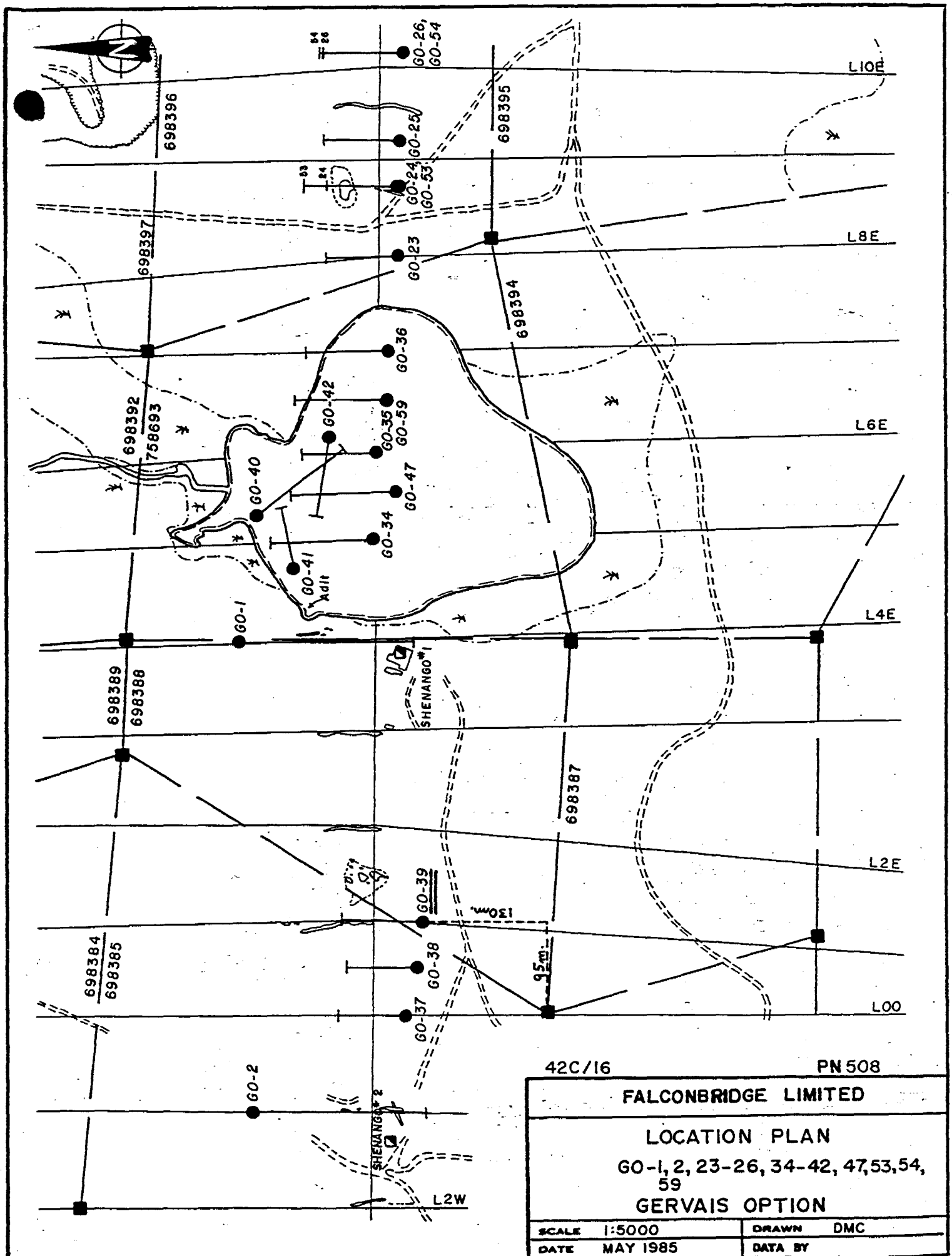
LOGGED BY_____ CASING_____ SHEET No. 6

STARTED_____ CORE SIZE_____ CORRECTED TESTS_____

FINISHED_____

PROPERTY_____

FROM	TO		DESCRIPTION
	112.8		END OF HOLE Contractor: Bradley Brothers Diamond Drilling Limited, Timmins, Ontario. Core is being stored at camp on Gervais property southeast of Oba, Ontario.



42C/16 PN 508

FALCONBRIDGE LIMITED

LOCATION PLAN

GO-1, 2, 23-26, 34-42, 47, 53, 54, 59

GERVAIS OPTION

SCALE 1:5000	DRAWN DMC
DATE MAY 1985	DATA BY

REVISED: FEB. 1986

Richard Kemp

FALCONBRIDGE NICKEL MINES LIMITED

DIAMOND DRILL RECORD

LOCATION L5 + 31E; 1 + 24N DIRECTION AZ 142° DIP -45° HOLE No. GO-40

LOGGED BY Bruce Miller CASING 30.0 m SHEET No. 1

STARTED February 9, 1985 CORE SIZE BQ CORRECTED TESTS 30m - 42.3°, 60 m

FINISHED February 12, 1985 39°, 90m - 37.6°, 120m - 37.3°, 150m -

PROPERTY Gervais Option, Oba, Ontario (PN 508) 36.7°

FROM	TO		SUMMARY LOG DESCRIPTION
0.0	30.0		CASING
30.0	38.06		FELSIC METATUFFS 2a, b (1a, b)
38.06	40.07		MAFIC AMPHIBOLITE 1a, b (2a)
40.07	44.5		FELSIC METATUFFS 2a, b
44.5	48.85		MAFIC AMPHIBOLITE 1a, b (2a)
48.85	53.33		FELSIC METATUFF 2a, b (1a)
53.33	89.37		MAFIC AMPHIBOLITE 1a, b (2a, 5c)
89.37	150.0		FELSIC GNEISS COMPLEX 2ab (1a, b) (METAVOLCANICS)
	150.0		END OF HOLE

Contractor: Bradley Brothers Diamond Drilling Limited, Timmins, Ontario.

Core is being stored at camp on Gervais Property southeast of Oba, Ontario.

Richard Kenny

FALCONBRIDGE NICKEL MINES LIMITED

DIAMOND DRILL RECORD

LOCATION L 5 + 31E 1 + 24N DIRECTION AZ 142° DIP -45° HOLE No. GO-40

LOGGED BY Bruce Miller CASING 30.0 m SHEET No. 1

STARTED February 9, 1985 CORE SIZE BQ CORRECTED TESTS 30m - 42.3°, 60m -

FINISHED February 12, 1985 39.0°, 90m - 37.6°, 120m - 37.3°, 150m -

PROPERTY Gervais Option, Oba, Ontario (PN 508) 36.7°

FROM	TO		DESCRIPTION
0.0	30.0		CASING
30.0	38.06		FELSIC METATUFFS 2a, b (1a,b) Fine grained to aphanitic light grey foliated felsic metatuffs? which are cut by occasional hairline quartz-calcite veinlets, and are highly sericitic. Minor concordant clear gash quartz veins cut this unit. Discordant gash quartz veins are present but rare. Mineralization is minimal - Nil pyrite. 31.6 - 32.1 Fine grained layered and massive mafic amphibolite band.
38.06	40.07		MAFIC AMPHIBOLITE 1a, b (2a) Fine grained chloritic layered and massive mafic amphibolite band with minor hairline quartz-calcite veinlets and one 1 cm brecciated slip plane (parallel to quartz-calcite veinlets and near perpendicular to foliation). Nil to trace hairline pyrite fracture filling. 38.96 - 39.04 Fine grained felsic metatuff band.
40.07	44.5		FELSIC METATUFFS 2a, b Aphanitic to medium grained medium to light grey felsic metatuff? band - sericitic, minor quartz calcite veinlets, occasional quartz-muscovite-pyrite clots, and nil to trace disseminated pyrite.
44.5	48.85		MAFIC AMPHIBOLITE 1a, b (2a) Fine grained layered and massive mafic amphibolite band with

FALCONBRIDGE NICKEL MINES LIMITED

DIAMOND DRILL RECORD

LOCATION_____ DIRECTION_____ DIP_____ HOLE No. GO-40

LOGGED BY_____ CASING_____ SHEET No. 2

STARTED_____ CORE SIZE_____ CORRECTED TESTS_____

FINISHED_____

PROPERTY_____

FROM	TO		DESCRIPTION
			minor cross-cutting hairline quartz-calcite veinlets, and occasional felsic metatuff band. Chloritic alteration with nil to trace hairline pyrite accumulations. 45.2 - 45.24 Fine grained felsic metatuff? band 46.45 - 46.52 Ditto 46.57 - 46.60 Ditto 46.68 - 47.01 Ditto
48.85	53.33		FELSIC METATUFF 2a, b (1a) Fine to medium grained medium to light grey felsic metatuff band - sericitic, minor cross-cutting hairline quartz-calcite veinlets with weak silicification haloes, Nil to trace disseminated pyrite and occasional gash quartz vein. 53.1 - 53.15 Silicified fine grained mafic amphibolite band
53.33	89.37		MAFIC AMPHIBOLITE 1a,b (2a, 5c) Fine grained interbanded layered and massive mafic amphibolite with minor bands of fine grained medium grey felsic metatuffs. Included are discordant hairline quartz-calcite veinlets, narrow concordant brown biotite/chlorite wisps as well as lighter greenish chlorite wisps. Pyrite and to a lesser extent pyrrhotite may occur in these wisps in trace amounts. One narrow coarse grained pink pegmatite dyke intrudes this unit. 53.33 - 57.9 Fine grained layered amphibolite interlayered

FALCONBRIDGE NICKEL MINES LIMITED

DIAMOND DRILL RECORD

LOCATION_____ DIRECTION_____ DIP_____ HOLE No. G0-40

LOGGED BY_____ CASING_____ SHEET No. 3

STARTED_____ CORE SIZE_____ CORRECTED TESTS_____

FINISHED_____

PROPERTY_____

FROM	TO		DESCRIPTION
			with narrow fine grained felsic bands and one massive mafic amphibolite band
			52.24 - 55.24 Fine grained felsic band
			55.37 - 56.0 Fine grained massive mafic amphibolite
			56.0 - 56.19 Fine grained felsic metatuff band
			56.53 - 56.64 Ditto
			56.73 - 56.86 Ditto
			57.0 - 57.13 Ditto
			57.7 - 57.84 Ditto
			57.9 - 60.61 Fine grained massive mafic amphibolite
			60.61 - 62.9 Fine grained layered mafic amphibolite
			61.22 - 61.38 Fine grained felsic metatuff band
			62.9 - 68.16 Fine grained massive mafic amphibolite
			68.16 - 69.15 Fine grained porphyritic felsic metatuff band
			69.15 - 76.9 Fine grained layered mafic amphibolite
			69.38 - 69.47 Fine grained felsic metatuff band
			71.25 - 71.36 Ditto
			76.9 - 88.7 Fine grained massive mafic amphibolite
			83.7 - 84.3 Fine grained layered mafic amphibolite
			85.24 - 86.06 Ditto
			86.24 - 86.42 Coarse grained pink pegmatite dyke
			88.7 - 89.37 Fine grained interlayered felsic metatuff bands with fine grained layered mafic amphibolite bands (*Maximum individual band widths of about 10 cm*).

FALCONBRIDGE NICKEL MINES LIMITED

DIAMOND DRILL RECORD

LOCATION_____ DIRECTION_____ DIP_____ HOLE No. G0-40

LOGGED BY_____ CASING_____ SHEET No. 4

STARTED_____ CORE SIZE_____ CORRECTED TESTS_____

FINISHED_____

PROPERTY_____

FROM	TO		DESCRIPTION
			Nil to trace pyrite.
89.37	150.0		FELSIC GNEISS COMPLEX 2ab (1a, b) (METAVOLCANICS) Fine grained medium grey felsic metatuffs which, over three meter transition zone, grade into medium grained medium grey felsic gneisses. Numerous hairline quartz-calcite veinlets are present down to a highly altered weakly brecciated narrow fault zone at 125.6 meters. These veinlets are less abundant to absent below the fault zone. Fine grained mafic amphibolite bands occur randomly throughout the felsic section and have variable widths. Frequent concordant and discordant clear to cloudy gash quartz veins have variable widths of up to 10 cm. Sericite alteration is weak to moderate in the metatuffs and absent within the medium grained gneisses. Disseminated pyrite mineralization ranges from trace to ½% within the metatuffs and nil to trace within the medium grainec gneisses. 89.37 - 118.59 Fine grained medium grey felsic metatuffs with hairline discordant quartz-calcite veinlets, nil tc trace to ½% disseminated pyrite and random gash quartz veins. 98.56 - 98.91 Fine grained medium to dark grey felsic to

FALCONBRIDGE NICKEL MINES LIMITED

DIAMOND DRILL RECORD

LOCATION_____ DIRECTION_____ DIP_____ HOLE No. G0-40

LOGGED BY_____ CASING_____ SHEET No. 5

STARTED_____ CORE SIZE_____ CORRECTED TESTS_____

FINISHED_____

PROPERTY_____

FROM	TO		DESCRIPTION
			intermediate band
			101.42 - 101.47 Clear gash quartz vein
			101.56 - 101.64 Ditto
			101.81 - 101.86 Ditto
			113.86 - 114.13 Weakly brecciated fine grained felsic meta-tuffs - minor fault zone (oriented about 10° off foliation angle). No alteration, nil pyrite.
			119.59 - 119.85 Fine grained silicified mafic amphibolite band, nil pyrite
			119.85 - 150.0 Medium grained medium grey felsic gneiss with random discordant and concordant clear to cloudy gash quartz veins, hairline quartz calcite veinlets (down to 126 meters), nil to trace pyrite and minor mafic amphibolite bands
			125.42 - 125.77 Highly altered zone around a 1 cm fault/slip plane - includes epidote, alkali/hematite and carbonate alteration
			126.32 - 126.58 Silicified mafic amphibolite band
			131.5 - 132.26 Silicified medium grained gneiss - nil pyrite
			134.3 - 134.36 Fine grained mafic amphibolite band
			135.06 - 135.12 Fine grained mafic amphibolite band
			135.12 - 135.6 Fine grained felsic band - medium grey
			135.6 - 136.36 Fine grained massive mafic amphibolite band
			130.33 - 130.43 Fine grained felsic band - medium grey

FALCONBRIDGE NICKEL MINES LIMITED

DIAMOND DRILL RECORD

LOCATION_____ DIRECTION_____ DIP_____ HOLE No. GO-40

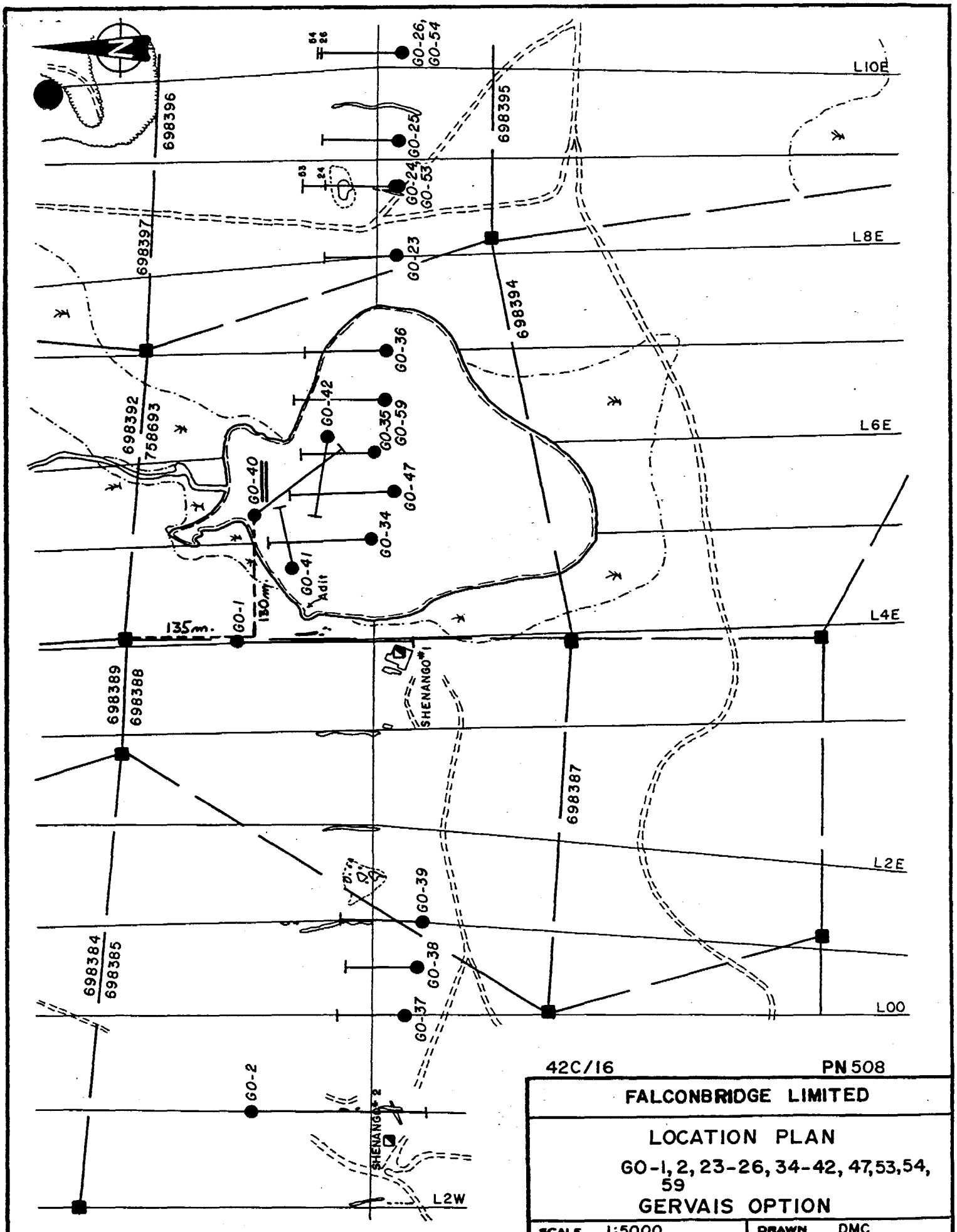
LOGGED BY_____ CASING_____ SHEET No. 6

STARTED_____ CORE SIZE_____ CORRECTED TESTS_____

FINISHED_____

PROPERTY_____

FROM	TO		DESCRIPTION
	150.0		END OF HOLE Contractor: Bradley Brothers Diamond Drilling Limited, Timmins, Ontario. Core is being stored at camp of Gervais Property southeast of Oba, Ontario.



42C/16 PN 508

FALCONBRIDGE LIMITED

LOCATION PLAN

GO-1, 2, 23-26, 34-42, 47, 53, 54, 59

GERVAIS OPTION

SCALE	1:5000	DRAWN	DMC
DATE	MAY 1985	DATA BY	

REVISED: FEB. 1986

Richard Kenny

FALCONBRIDGE NICKEL MINES LIMITED

DIAMOND DRILL RECORD

LOCATION L4 + 75E 0 + 84N DIRECTION AZ 077° DIP -45° HOLE No. GO-41

LOGGED BY Bruce Miller CASING 16 m SHEET No. 1

STARTED February 12, 1985 CORE SIZE BQ CORRECTED TESTS 16m - 38.7°, 46m - 38.5°, 76m - 37°

FINISHED February 13, 1985

PROPERTY Gervais Option, Oba, Ontario (PN 508)

FROM	TO		SUMMARY LOG DESCRIPTION
0.0	16.0		CASING
16.0	70.0		FELSIC GNEISS COMPLEX 2a, b (6b) (METAVOLCANICS)
70.0	73.45		FAULT ZONE (2a)
73.45	78.0		FELSIC METATUFFS 2ab
78.0	85.0		MAFIC AMPHIBOLITE 1ab (6b, 2a)
	85.0		END OF HOLE
			Contractor: Bradley Brothers Diamond Drilling Limited, Timmins, Ontario.
			Core is being stored at camp on Gervais Property southeast of Oba, Ontario.

Richard Kenny

FALCONBRIDGE NICKEL MINES LIMITED

DIAMOND DRILL RECORD

LOCATION L4 + 75E 0 + 84N DIRECTION AZ 077° DIP -45° HOLE No. GO-41

LOGGED BY Bruce Miller CASING 16 m SHEET No. 1

STARTED February 12, 1985 CORE SIZE BQ CORRECTED TESTS 16m - 38.7°, 46m-

FINISHED February 13, 1985 38.5°, 76m - 37°

PROPERTY Gervais Option, Oba, Ontario (PN 508)

FROM	TO		DESCRIPTION
0.0	16.0		CASING
16.0	70.0		FELSIC GNEISS COMPLEX 2a, b (6b) (METAVOLCANICS) Fine to medium grained medium grey moderately sericitic felsic metatuffs with foliation axis parallel to or nearly parallel to core axis. Contains trace to ½% disseminated pyrite with local 1% accumulations and random coarse grained clots, commonly associated with quartz veins and blebs but also along annealed fractures. Irregular gash quartz veins are present throughout the sectior and often include muscovite clots, as well as pyrite. Boudinage structures are easily visible in cross-section and relatively abundant. Hairline quartz-calcite veinlets are discordant and become increasingly abundant closer at the fault zone between 70.0 and 73.45. Silicification and sericitization of the metatuffs adjacent to the fault causes a lighter greenish grey colour. One narrow minor fault which is 5 cm wide occurs at 55.8 meters downhole and includes quartz, calcite, alkali and minor epidote alteration. Nil pyrite. 27.0 - 27.25 Fine grained lamprophyre dyke 28.36 - 28.45 Ditto 31.77 - 31.79 Ditto

FALCONBRIDGE NICKEL MINES LIMITED

DIAMOND DRILL RECORD

LOCATION_____ DIRECTION_____ DIP_____ HOLE No. GO-41

LOGGED BY_____ CASING_____ SHEET No. 2

STARTED_____ CORE SIZE_____ CORRECTED TESTS_____

FINISHED_____

PROPERTY_____

FROM	TO		DESCRIPTION
			32.44 - 32.62 Fine grained lamprophyre dyke
			33.97 - 34.01 Ditto
			34.40 - 34.57 Fine grained lamprophyre dyke (actual width = 1.5 cm)
			46.36 - 46.74 Fine grained lamprophyre dyke
			55.0 - 55.76 Medium grey fine grained felsic metatuffs with numerous hairline quartz-calcite veinlets
			55.76 - 55.8 Minor fault zone - ivory/creamy coloured milled fault gouge
70.0	73.45		FAULT ZONE (2a)
			Fine to medium grey felsic metatuffs which are intensely cut by hairline quartz-calcite veinlets and two separate narrow faults (6 cm and 40 cm).
			The faults are a creamy coloured grind composed of a fine grained matrix and 1 - 2 mm rounded fragments of host rock. Larger fragments are reddish in colour with extensive alkali enrichment.
			There is no sulphide mineralization and only minor epidote alteration.
			Due to the nature of the fault zone, foliation angles on either side differ by approximately 20° (the west side has a foliation angle of nearly 0°).
			70.0 - 73.45 Fine to medium grained medium greenish grey felsic metatuffs with numerous quartz-calcite

FALCONBRIDGE NICKEL MINES LIMITED

DIAMOND DRILL RECORD

LOCATION_____ DIRECTION_____ DIP_____ HOLE No. G0-41

LOGGED BY_____ CASING_____ SHEET No. 3

STARTED_____ CORE SIZE_____ CORRECTED TESTS_____

FINISHED_____

PROPERTY_____

FROM	TO		DESCRIPTION
			veinlets.
			70.59 - 70.65 Minor fault zone - fault gouge
			71.7 - 71.86 Alkali enriched reddish-pinkish coloured felsic metatuffs and gash white quartz vein
			72.6 - 73.06 Fault gouge - creamy coloured grind with 9 cm reddish-pink alkali-enriched felsic metatuff fragment?
73.45	78.0		FELSIC METATUFFS 2ab
			Fine to medium grained medium greenish-grey sericitic felsic metatuffs which exhibit weak silicification and alkali metasomatism.
			Random gash white quartz veins and hairline quartz-calcite veinlets cut the section.
			Generally nil pyrite with occasion trace dissemination.
78.0	85.0		MAFIC AMPHIBOLITE 1ab (6b, 2a)
			Fine grained massive and layered mafic amphibolite with inter-layered fine grained to aphanitic felsic metatuff bands.
			Numerous minor step and reverse step faults with 1 to 2 cm displacements offset layered amphibolite and felsic metatuff bands.
			Hairline quartz-calcite veinlets are present throughout and are most abundant proximal to a minor fault zone between 83.9 and 84.17 meters.
			The fault zone is a fine grained greenish grind of mafic

FALCONBRIDGE NICKEL MINES LIMITED

DIAMOND DRILL RECORD

GO-41

LOCATION_____ DIRECTION_____ DIP_____ HOLE No._____

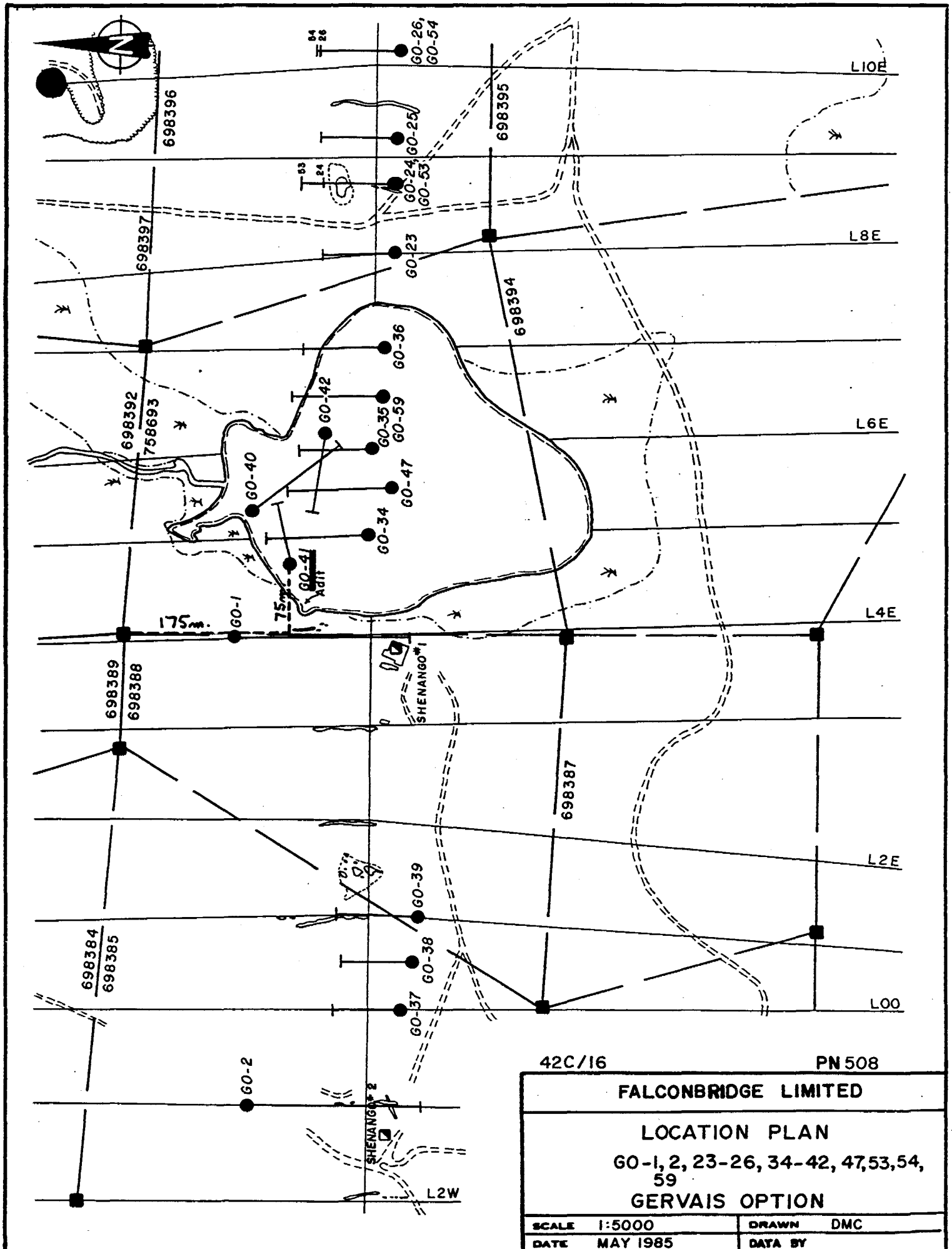
LOGGED BY_____ CASING_____ SHEET No. 4

STARTED_____ CORE SIZE_____ CORRECTED TESTS_____

FINISHED_____

PROPERTY_____

FROM	TO		DESCRIPTION
			amphibolite and moderate silicification and calcification.
			One lamprophyre dyke occurs between 84.28 and 84.65 meters.
			Nil pyrite mineralization.
			78.52 - 78.57 Aphanitic felsic band
			78.97 - 79.19 Ditto
			79.72 - 80.5 Ten equally spaced step and reverse step faults, each with one to two centimeter offsets. Four cm net offset.
			82.0 - 82.08 Aphanitic felsic band
			83.9 - 84.17 Fault zone with chloritic milled mafic amphibolite and minor quartz-calcite veining and pervasive moderate silicification and calcification
			84.28 - 84.65 Fine grained lamprophyre dyke
	85.0		END OF HOLE
			Contractor: Bradley Brothers Diamond Drilling Limited, Timmins, Ontario.
			Core is being stored at camp on Gervais Property southeast of Oba, Ontario.



42C/16 PN 508

FALCONBRIDGE LIMITED

LOCATION PLAN

GO-1, 2, 23-26, 34-42, 47, 53, 54, 59

GERVAIS OPTION

SCALE 1:5000	DRAWN DMC
DATE MAY 1985	DATA BY

REVISED: FEB. 1986

Richard Kenny

FALCONBRIDGE NICKEL MINES LIMITED

DIAMOND DRILL RECORD

LOCATION L6+13E/0+50N DIRECTION AZ 278° DIP -45° HOLE No. GO-42

LOGGED BY Bruce Miller CASING 48m SHEET No. 1

STARTED February 14/85 CORE SIZE BQ CORRECTED TESTS 48m-39.9°;

FINISHED February 16/85 78m-38.9°; 113m-38°

PROPERTY Gervais Option, Oba, Ontario PN 508

FROM (metres)	TO		DESCRIPTION SUMMARY LOG
0.0	48.0		CASING
48.0	93.26		FELSIC GNEISS COMPLEX 2a,b (6b) (METAVOLCANICS)
93.26	95.25		FAULT ZONE
95.25	113.0		FELSIC GNEISS COMPLEX 2ab (METAVOLCANICS)
	113.0		END OF HOLE

Contractor: Bradley Bros. Limited, Timmins, Ontario

Core is being stored at the camp on the Gervais Property, southeast of Oba, Ontario.

Richard Kenny

FALCONBRIDGE NICKEL MINES LIMITED

DIAMOND DRILL RECORD

LOCATION L6+13E/0+50N DIRECTION AZ 278° DIP -45° HOLE No. GO-42

LOGGED BY Bruce Miller CASING 48m SHEET No. 1

STARTED February 14/85 CORE SIZE BQ CORRECTED TESTS 48m-39.9°;

FINISHED February 16/85 78m-38.9°; 113m-38°

PROPERTY Gervais Option, Oba, Ontario PN 508

FROM (metres)	TO		DESCRIPTION
0.0	48.0		CASING Included is a 75cm boulder of coarse grained gabbroic hornfelsed mafic amphibolite or coarse grained gabbro. 10cm hornblende lathes are common with coarse grained interstitial feldspar. The lathes are hexagonal in cross-section. Nil to trace pyrite.
48.0	93.26		FELSIC GNEISS COMPLEX 2a,b (6b) (METAVOLCANICS) Fine grained medium grey sericitic felsic metatuffs which includes random concordant and discordant cloudy and clear gash quartz veins and fine grained disseminated pyrite. Generally the foliation parallels the drill core with occasional kinks and boudinage structures which cause deviations of up to 10°. Pyrite disseminations range from trace to 1/2% while quartz-rich rocks contain 1/2% to 1% and up to 2% on occasion. Minor to moderate epidote alteration, increasing downhole approaching the fault, is present in metatuffs up to 2 meters from the fault. There is no epidote alteration in any of the other fine grained metatuffs apart from a 10cm fracture filling zone at 50m downhole. Hairline quartz-calcite are present throughout the section and are more populated closer to the fault. Overall, they occur rarely to frequently approaching the fault.

FALCONBRIDGE NICKEL MINES LIMITED

DIAMOND DRILL RECORD

LOCATION_____ DIRECTION_____ DIP_____ HOLE No. G0-42

LOGGED BY_____ CASING_____ SHEET No. 2

STARTED_____ CORE SIZE_____ CORRECTED TESTS_____

FINISHED_____

PROPERTY_____

FROM (metres)	TO		DESCRIPTION
			50.0-50.1 fine grained felsic metatuffs with hairline epidote-quartz-calcite fracture filling 63.14-63.5 fine grained mafic lamprophyre dyke - trace disseminated pyrite 80.77-80.86 cloudy-white gash quartz vein 86.3-86.39 cloudy-white gash quartz vein 86.39-87.0 fine grained mafic lamprophyre dyke - trace disseminated pyrite 91.0-93.26 fine grained felsic metatuffs with sericite, hematite and epidote alteration along with hairline quartz-calcite veinlets.
93.26	95.25		FAULT ZONE Fine grained unfoliated grind of felsic to intermediate composition - dark greenish colour. Included is a 63cm brecciated zone with intense quartz-calcite-epidote veinlets and alteration. Minor hematite veinlets are up to 2mm wide but mostly hairline in width. There is no sulphide mineralization. The fault contact is 0° to 25° to the foliation angle which is in turn 9° to the core axis at this point.
95.25	113.0		FELSIC GNEISS COMPLEX 2ab (METAVOLCANICS) Medium and fine grained dark greenish felsic gneisses and

FALCONBRIDGE NICKEL MINES LIMITED

DIAMOND DRILL RECORD

LOCATION_____ DIRECTION_____ DIP_____ HOLE No. GO-42

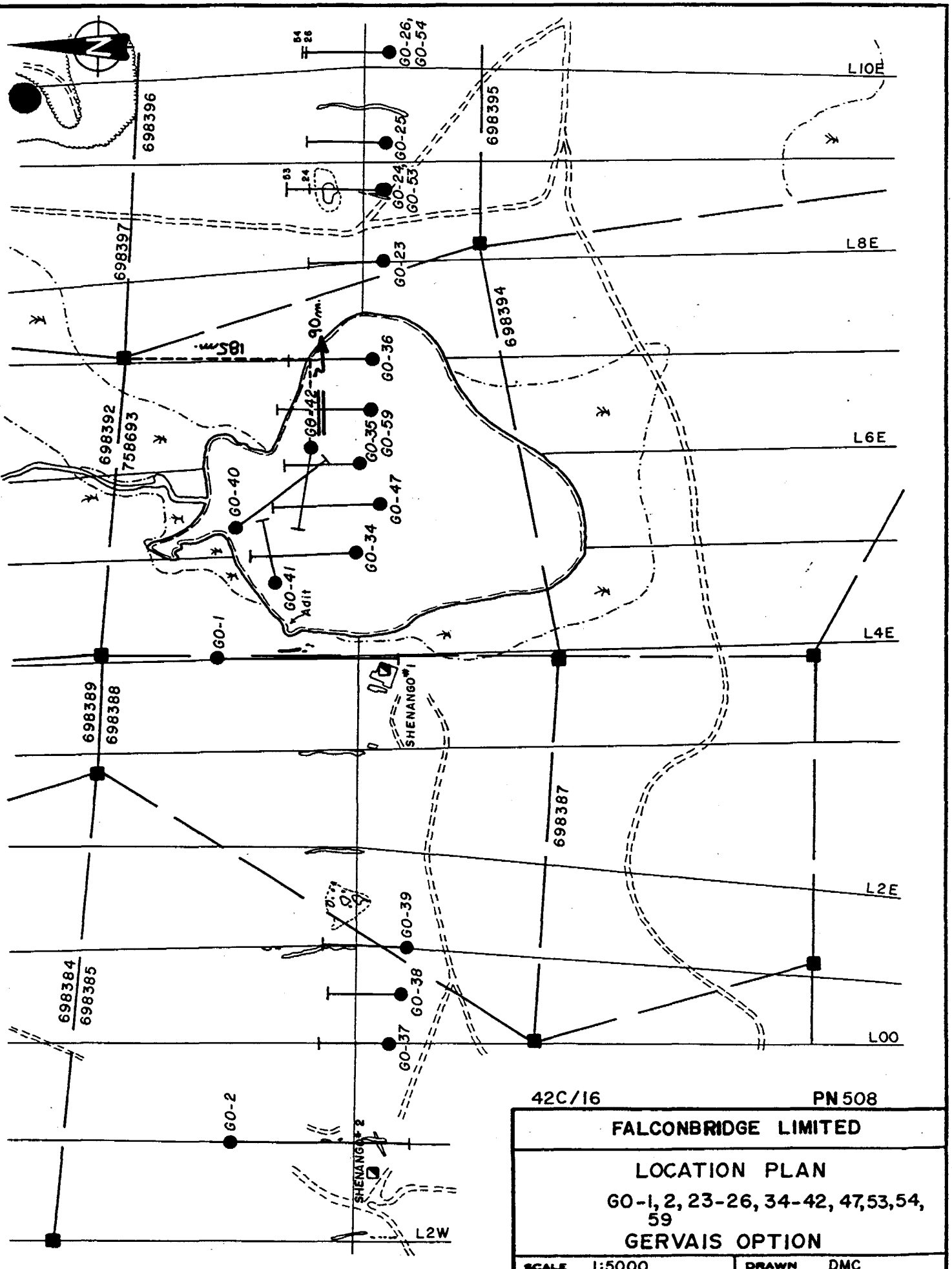
LOGGED BY_____ CASING_____ SHEET No. 3

STARTED_____ CORE SIZE_____ CORRECTED TESTS_____

FINISHED_____

PROPERTY_____

FROM (metres)	TO		DESCRIPTION
			metatuffs with chlorite and weak sericite alteration. Intense quartz-calcite-epidote-hematite hairline fractures are present in rocks adjacent to the fault. These become less abundant to nonexistent to end of hole.
			Mineralization includes nil to trace disseminated pyrite in the fine grained metatuffs but the medium grained gneisses contain none. These have probably been driven off by fault generated fluids.
			95.25-100.0 Intensely altered medium grained greenish felsic gneiss with abundant hairline quartz-calcite-epidote-hematite veinlets. Nil pyrite.
			100.0-109.85 medium grained greenish felsic gneiss with minor vugs and quartz-calcite veinlets. Nil pryite. Chloritic.
			109.1-109.28 fine grained altered mafic band.
			109.85-113.0 Fine grained greenish felsic metatuffs with minor quartz-calcite hairline veinlets. Nil-trace pyrite.
	113.0		END OF HOLE
			Contractor: Bradley Bros. Limited, Timmins, Ontario
			Core is being stored at the camp on the Gervais Property, southeast of Oba, Ontario.



42C/16 PN508

FALCONBRIDGE LIMITED

LOCATION PLAN

GO-1, 2, 23-26, 34-42, 47, 53, 54, 59

GERVAIS OPTION

SCALE 1:5000	DRAWN DMC
DATE MAY 1985	DATA BY

REVISED: FEB. 1986

Richard Kenning

FALCONBRIDGE NICKEL MINES LIMITED

DIAMOND DRILL RECORD

LOCATION L19+91E/0+76N DIRECTION AZ 112° DIP -45° HOLE No. GO-43

LOGGED BY Bruce Miller CASING 3.0m SHEET No. 1

STARTED February 16, 1985 CORE SIZE BQ CORRECTED TESTS 3m-40°; 33m-42°,

FINISHED February 18, 1985 63m-39.8°; 89m-41.5°

PROPERTY Gervais Option, Oba, Ontario PN 508

FROM (metres)	TO		DESCRIPTION
			SUMMARY LOG
0.0	3.0		CASING
3.0	21.74		MAFIC AMPHIBOLITE 1ab (2a)
21.74	57.76		FELSIC GNEISS COMPLEX 2ab (1a) (METAVOLCANICS)
57.76	73.92		DIABASE DYKE 6a (6b)
73.92	89.0		FELSIC GNEISS COMPLEX 2ab (1a, 6a, b?) (METAVOLCANICS)
	89.0		END OF HOLE

Contractor: Bradley Bros. Limited, Timmins, Ontario

Core is being stored at the camp on Gervais property southeast of Oba, Ontario.

Richard Kenny

FALCONBRIDGE NICKEL MINES LIMITED

DIAMOND DRILL RECORD

LOCATION L19+91E/0+76N DIRECTION AZ 112° DIP -45° HOLE No. GO-43

LOGGED BY Bruce Miller CASING 3.0m SHEET No. 1

STARTED February 16, 1985 CORE SIZE BQ CORRECTED TESTS 3m-40°; 33m-42°;

FINISHED February 18, 1985 63m-39.8°; 89m-41.5°

PROPERTY Gervais Option, Oba, Ontario PN 508

FROM (metres)	TO		DESCRIPTION
0.0	3.0		CASING
3.0	21.74		MAFIC AMPHIBOLITE lab (2a)
			Fine grained layered and massive mafic amphibolites in contact with the felsic gneiss complex at 21.74 meters downhole.
			Numerous concordant brown biotite/chlorite-pyrrhotite bands are present within about 9 meters of the contact. Felsic and light greenish coloured wisps distinguish layered from massive amphibolite.
			Two fine grained felsic bands are present with widths of 1.3m and 0.2m.
			Alteration is minimal, apart from the narrow biotite/chlorite wisps.
			Metamorphism is of amphibolite facies.
			Mineralization includes nil to trace pyrite and approximately 1% pyrrhotite along 5mm wisps, generally nil disseminated pyrite.
			3.0-11.17 fine grained massive mafic amphibolite
			5.85-5.95' gash quartz vein - concordant
			11.17-21.74 fine grained layered mafic amphibolite
			12.06-13.4 fine grained felsic metatuff band, weak sericite, nil to trace pyrite
			20.49-20.69 fine grained felsic metatuff band
21.74	57.76		FELSIC GNEISS COMPLEX 2ab (1a) (METAVOLCANICS)
			Fine grained medium to light grey felsic metatuffs with

FALCONBRIDGE NICKEL MINES LIMITED

DIAMOND DRILL RECORD

LOCATION_____ DIRECTION_____ DIP_____ HOLE No. GO-43

LOGGED BY_____ CASING_____ SHEET No. 2

STARTED_____ CORE SIZE_____ CORRECTED TESTS_____

FINISHED_____

PROPERTY_____

FROM (metres)	TO		DESCRIPTION
			occasional narrow (10 cm average) mafic amphibolite bands within the upper twelve meters.
			Several hairline quartz-calcite veinlets are most populated in the upper 10 meters of this unit, and occasional overall.
			Sericite alteration becomes more pronounced downhole to contact with a diabase dyke at 57.76 meters. Medium grey felsic metatuffs are weakly sericitic while light grey equivalents are highly sericitic.
			Pyrite mineralization parallels sericite alteration. Weakly sericitic rocks contain nil to trace pyrite while highly sericitic varieties contain trace to 1/2% disseminated pyrite.
			Discordant and concordant cloudy gash quartz veins are random with variable widths (up to 18 cm)
			21.74-22.48 fine to medium grained medium grey felsic band
			22.48-22.62 fine grained layered mafic amphibolite band
			22.62-36.6 fine grained medium grained felsic metatuffs with numerous hairline quartz calcite veinlets with occasional silicification haloes, nil to trace pyrite with rare pyrite clots
			22.74-22.8 fine grained layered mafic amphibolite
			22.8-22.86 gash white quartz vein
			27.4-27.52 fine grained chloritic and pyritic layered amphibolite band
			29.35-29.52 fine grained silicified layered mafic amphibolite band

FALCONBRIDGE NICKEL MINES LIMITED

DIAMOND DRILL RECORD

LOCATION_____ DIRECTION_____ DIP_____ HOLE No. GO-43

LOGGED BY_____ CASING_____ SHEET No. 3

STARTED_____ CORE SIZE_____ CORRECTED TESTS_____

FINISHED_____

PROPERTY_____

FROM (metres)	TO		DESCRIPTION
			30.93-31.04 aphanitic felsic band 31.04-31.23 silicified fine grained layered amphibolite band 31.7-31.8 fine grained layered amphibolite band 31.91-31.16 fine grained layered amphibolite band 32.49-32.57 fine grained layered amphibolite band 32.92-33.28 chlorite schist - sheared mafic amphibolite 36.6-57.76 fine grained light grey felsic metatuffs which progressively become more sericitic downhole. Hairline quartz-calcite veinlets occur less frequently than in medium grey metatuffs. Quartz gashes are clear to cloudy. Trace to 1/2% disseminated pyrite. 37.44-37.64 aphanitic felsic band 48.25-48.43 white gash quartz vein
57.76	73.92		DIABASE DYKE 6a (6b) Fine to medium grained equigranular diabase dyke which is magnetic and weakly to moderately fractured. Both contacts with felsic metatuffs are riddled with quartz calcite veining and are sheared to chlorite schist. Chlorite schist zones are 30cm and 1.15 cm (downhole contact) wide. Nil to trace disseminated pyrite. 57.76-58.02 rubbley fine grained diabase cut by random and intense quartz-calcite veins.

FALCONBRIDGE NICKEL MINES LIMITED

DIAMOND DRILL RECORD

LOCATION_____ DIRECTION_____ DIP_____ HOLE No. G0-43

LOGGED BY_____ CASING_____ SHEET No. 4

STARTED_____ CORE SIZE_____ CORRECTED TESTS_____

FINISHED_____

PROPERTY_____

FROM (metres)	TO		DESCRIPTION
			58.02-58.34 chlorite-schist = sheared diabase
			58.34-71.8 medium grained diabase
			71.8-72.3 fine grained brecciated diabase dyke - magnetic
			72.3-72.45 medium grained rubbley diabase
			72.45-73.6 chlorite - schist = rubbley diabase
			73.6-73.92 weakly brecciated rubbley fine to medium grained diabase cut by random quartz-calcite veins.
73.92	89.0		FELSIC GNEISS COMPLEX 2ab (1a, 6a,b?) (METAVOLCANICS) Fine to medium grained light-grey felsic metatuffs and gneisses with interlayered fine grained mafic amphibolite bands. Alteration includes weak to moderate sericite enrichment. Pyrite disseminations range from nil (within the medium grained gneisses) to trace to 1/2% (within the fine grained metatuffs). Random clear to white gash quartz vein and concordant fine grained felsic band cut the section. 73.92-80.08 fine grained sericitic felsic metatuffs - trace to 1/2% pyrite 75.45-76.01 fine grained to aphanite mafic band - magnetic (either diabase or lamprophyre) 77.42-77.54 fine grained mafic band - amphibolite? 77.85-77.9 fine grained mafic band - amphibolite? 77.9-79.6 0.7m ground core 79.13-79.4 fine grained mafic band - amphibolite?

FALCONBRIDGE NICKEL MINES LIMITED

DIAMOND DRILL RECORD

LOCATION_____ DIRECTION_____ DIP_____ HOLE No. GO-43

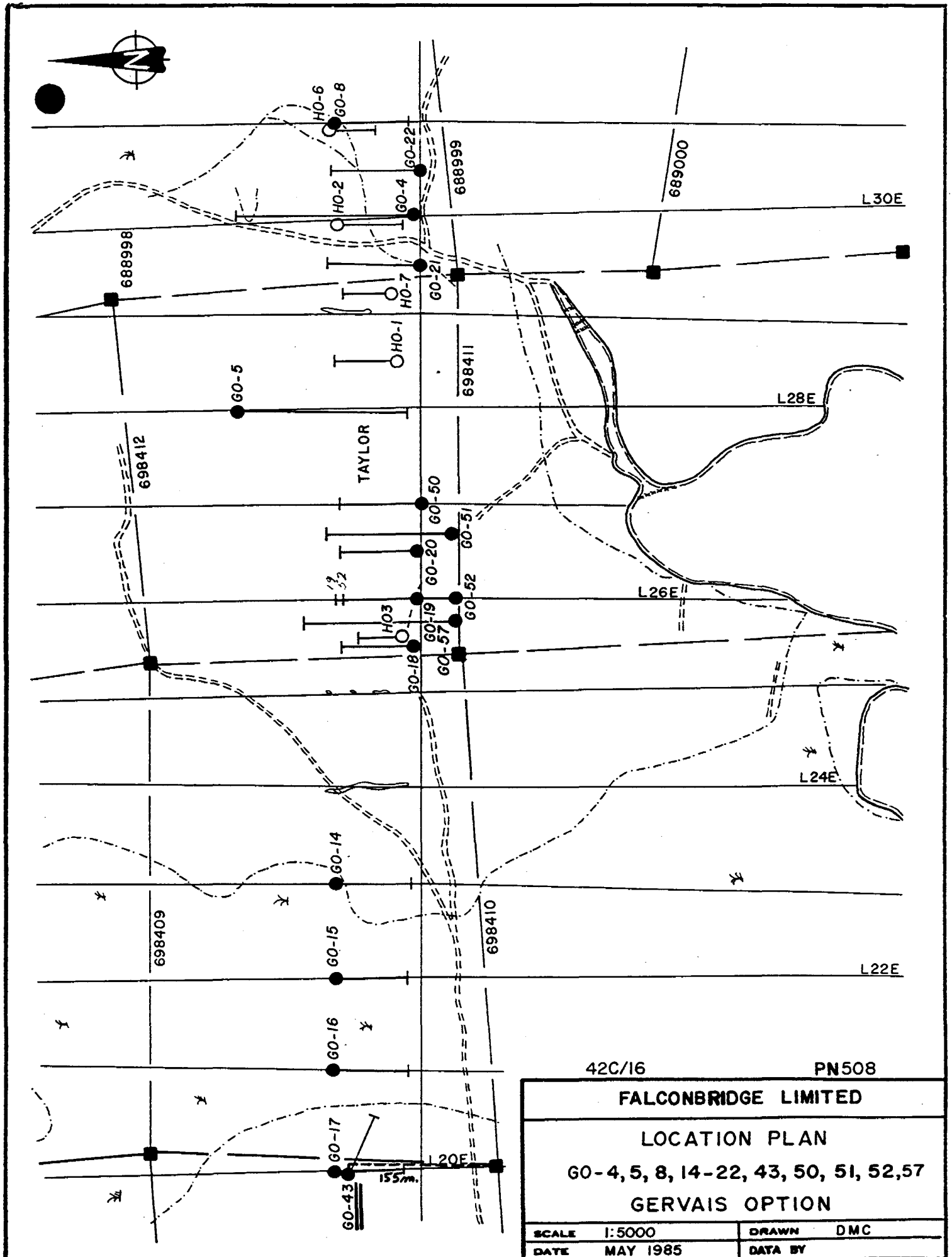
LOGGED BY_____ CASING_____ SHEET No. 5

STARTED_____ CORE SIZE_____ CORRECTED TESTS_____

FINISHED_____

PROPERTY_____

FROM (metres)	TO		DESCRIPTION
			80.08-89.0 medium grained medium grey felsic gneiss with minor random gash quartz veins.
			80.70-80.77 aphanitic felsic band
			81.18-81.56 fine grained medium grey felsic band
			84.9-85.8 fine grained layered mafic amphibolite band
	89.0		END OF HOLE
			Contractor: Bradley Bros. Limited, Timmins, Ontario
			Core is being stored at the camp on Gervais property southeast of Oba, Ontario.



42C/16 PN508

FALCONBRIDGE LIMITED

LOCATION PLAN

GO-4, 5, 8, 14-22, 43, 50, 51, 52, 57

GERVAIS OPTION

SCALE	1:5000	DRAWN	DMC
DATE	MAY 1985	DATA BY	

REVISED: MAR. 1986

Richard Kenny

FALCONBRIDGE NICKEL MINES LIMITED

DIAMOND DRILL RECORD

LOCATION L14 + 00E 1 + 05S DIRECTION AZ 360° DIP -45° HOLE No. GO-44

LOGGED BY Bruce Miller CASING 4.0m SHEET No. 1

STARTED March 18, 1985 CORE SIZE BQ CORRECTED TESTS 4m-42.5°, 35m-38.9°

FINISHED March 22, 1985 65m-36.5°, 95m-36.5°, 125m-36.5°, 155m-34.2°, 176m-36°

PROPERTY Gervais Option, Oba, Ontario (PN 508)

FROM meters	TO		SUMMARY LOG DESCRIPTION
0.0	4.0		CASING
4.0	166.5		FELSIC GNEISS COMPLEX 4a, b 2a, b (5c, 1a)
166.5	176.0		MAFIC AMPHIBOLITE 1a, b (2a)
	176.0		END OF HOLE
			Contractor: Bradley Brothers Diamond Drilling Limited, Timmins, Ontario.
			Core is being stored at camp on Gervais Property southeast of Oba, Ontario.

Richard Kenny

FALCONBRIDGE NICKEL MINES LIMITED

DIAMOND DRILL RECORD

LOCATION L14 + 00E 1 + 05S DIRECTION AZ 360° DIP -45° HOLE No. GO-44

LOGGED BY Bruce Miller CASING 4.0m SHEET No. 1

STARTED March 18, 1985 CORE SIZE BQ CORRECTED TESTS 4m-42.5°, 35m-38.9°

FINISHED March 22, 1985 65m-36.5°, 95m-36.5°, 125m-36.5°, 155m-34.2°

PROPERTY Gervais Option, Oba, Ontario (PN 508) 176m-36°

FROM meters	TO		DESCRIPTION
0.0	4.0		CASING
4.0	166.5		FELSIC GNEISS COMPLEX 4a, b 2a, b (5c, 1a) Coarse grained medium grey foliated granodiorite and quartz-feldspar-biotite gneiss grading gradually down hole to finer grained medium grey felsic metavolcanics and eventually fine grained felsic metatuffs? in contact with mafic amphibolites. Frequent layers/bands of fine grained to aphanitic medium grey felsic to intermediate composition interrupt the entire felsic section. These have variable widths and irregular intervals. Random gash quartz veins becomes more abundant down hole. Concordant and discordant veins have widths of up to 10 cm and are commonly associated with clots of muscovite and/or pyrite. Coarse grained pink pegmatite dykes are erratic and have widths of up to 1.8 meters. Occasional felsic bands are weakly porphyritic. Pyrite mineralization ranges from nil within the coarse grained gneiss to trace and ½% disseminations within the medium and fine grained felsic gneisses and metatuffs respectively. Occasional coarse grained pyrite cubes are present in lower downhole portions of the felsic complex. Biotite enrichments within the coarse grained gneisses are moderate with moderate to strong sericite enrichments within the fine grained felsic metatuffs.

FALCONBRIDGE NICKEL MINES LIMITED

DIAMOND DRILL RECORD

LOCATION_____ DIRECTION_____ DIP_____ HOLE No. GO-44

LOGGED BY_____ CASING_____ SHEET No. 2

STARTED_____ CORE SIZE_____ CORRECTED TESTS_____

FINISHED_____

PROPERTY_____

FROM meters	TO		DESCRIPTION
			4.0 - 134.8 Coarse grained medium grey felsic granodiorite gneisses with occasional concordant and discordant gash quartz veins, narrow but frequent fine grained medium grey felsic bands and minor hairline quartz calcite veinlets.
			4.0 - 12.0 Weakly oxidized zone
			7.74 - 7.82 Fine grained intermediate band
			8.10 - 8.18 Same as 7.74 - 7.82
			11.0 - 11.18 Fine grained felsic band
			11.72 - 11.82 Fine grained intermediate band
			15.8 - 15.9 Fine grained chloritic mafic amphibolite band
			16.25 - 16.33 Fine grained felsic to intermediate band
			17.36 - 17.5 Fine grained intermediate band
			18.55 - 20.05 Fine grained felsic to intermediate band
			19.73 - 19.80 Coarse grained pink pegmatite dyke
			20.1 - 20.36 Gash quartz vein-smokey-nil py
			21.52 - 21.69 Fine grained felsic to intermediate band
			22.33 - 22.53 Fine grained felsic band
			23.34 - 23.47 Fine grained felsic band
			23.53 - 23.65 Aphanitic felsic band
			24.8 - 24.92 Fine grained felsic band
			24.92 - 25.16 Fine grained massive mafic amphibolite band
			25.27 - 25.5 Clear gash quartz vein - trace pyrite
			25.68 - 25.84 Fine grained felsic band

FALCONBRIDGE NICKEL MINES LIMITED

DIAMOND DRILL RECORD

LOCATION_____ DIRECTION_____ DIP_____ HOLE No. G0-44

LOGGED BY_____ CASING_____ SHEET No. 3

STARTED_____ CORE SIZE_____ CORRECTED TESTS_____

FINISHED_____

PROPERTY_____

FROM meters	TO		DESCRIPTION

25.84 - 26.1 Fine grained weakly porphyritic felsic band

28.43 - 28.88 Fine grained felsic band

29.43 - 29.88 Same as 28.43 - 28.88

30.11 - 30.48 Same as 28.43 - 28.88

31.8 - 31.92 Same as 28.43 - 28.88

38.0 - 39.9 Coarse grained granodiorite gneiss which has been altered by hairline quartz-calcite veinlets with minor sericite and epidote.

39.06 - 39.15 Fine grained felsic to intermediate band

39.37 - 39.48 Same as 39.06 - 39.15

39.53 - 39.63 Fine grained felsic band

42.04 - 42.14 Fine grained mafic amphibolite band which is cut by a total of 6 cm of gash quartz veins - nil pyrite

42.5 - 43.08 Fine grained medium grey felsic band

46.85 - 47.02 Same as 42.5 - 43.08

48.14 - 48.34 Same as 42.5 - 43.08

50.0 - 50.09 Aphanitic medium grey felsic band

51.70 - 51.79 Fine grained medium grey felsic to intermediate band

52.76 - 52.88 Same as 51.70 - 51.79

53.11 - 53.63 Fine grained medium greenish-grey felsic band with minor epidote and alkali alteration

53.63 - 53.79 Fine grained intermediate band

57.26 - 57.45 Fine grained felsic to intermediate band

FALCONBRIDGE NICKEL MINES LIMITED

DIAMOND DRILL RECORD

LOCATION_____ DIRECTION_____ DIP_____ HOLE No. GO-44

LOGGED BY_____ CASING_____ SHEET No. 4

STARTED_____ CORE SIZE_____ CORRECTED TESTS_____

FINISHED_____

PROPERTY_____

FROM meters	TO		DESCRIPTION
			58.24 - 58.34 Fine grained felsic band
			59.14 - 60.93 Coarse grained pink pegmatite dyke
			63.83 - 63.93 Fine grained mafic band
			63.93 - 64.5 Coarse grained pink pegmatite dyke
			65.54 - 65.6 Aphanitic felsic band
			73.9 - 74.06 Fine grained felsic to intermediate band
			74.18 - 75.03 Aphanitic felsic band
			74.8 - 74.88 Medium grey felsic granodiorite gneiss band
			76.33 - 76.83 Aphanitic felsic band - trace pyrite
			77.66 - 78.07 Interlayering of fine grained felsic and intermediate to mafic bands with medium grained felsic gneiss
			81.34 - 81.48 Fine to medium grained felsic to intermediate band
			82.36 - 82.57 Aphanitic felsic band
			87.67 - 88.73 Fine grained felsic to intermediate band
			95.0 - 95.18 Cross-cutting 5 cm wide barren clear quartz vein
			95.18 - 95.4 Fine grained intermediate band
			95.76 - 95.85 Same as 95.18 - 95.4
			96.11 - 96.64 Same as 95.18 - 95.4
			96.74 - 97.46 Interlayered fine grained and medium grained felsic and intermediate bands
			106.32 - 106.99 Fine grained weakly porphyritic felsic band

FALCONBRIDGE NICKEL MINES LIMITED

DIAMOND DRILL RECORD

LOCATION_____ DIRECTION_____ DIP_____ HOLE No. GO-44

LOGGED BY_____ CASING_____ SHEET No. 5

STARTED_____ CORE SIZE_____ CORRECTED TESTS_____

FINISHED_____

PROPERTY_____

FROM	TO		DESCRIPTION
meters			
			110.85 - 110.95 Aphanitic felsic band
			110.95 - 111.23 Chlorite schist-sheared mafic amphibolite band
			112.26 - 112.43 Fine to medium grained medium grey felsic band
			115.48 - 115.62 Same as 112.26 - 112.43
			115.68 - 115.75 Same as 112.26 - 112.43
			118.35 - 118.49 Aphanitic felsic band
			124.22 - 125.13 Fine grained medium grey felsic unit
			125.26 - 125.32 Fine grained dark grey intermediate band
			126.1 - 126.3 Fine to med. grained med. grey felsic band
			134.8 - 140.05 Medium grained medium grey variably textured felsic gneiss with occasional fine grained felsic to intermediate transitional bands, trace pyrite and rare to occasional concordant gash quartz vein
			136.04 - 136.14 Fine grained felsic to intermediate band
			136.9 - 137.27 Same as 136.04 - 136.14
			139.87 - 140.05 Fine grained mafic amphibolite band
			140.05 - 158.0 Fine to medium grained medium grey felsic gneisses and possibly metatuffs? - variably textured, weakly to moderately sericitic with trace to ½% disseminated pyrite and local 1% pyrite accumulations. Concordant and discordant clear to cloudy gash quartz veins.

FALCONBRIDGE NICKEL MINES LIMITED

DIAMOND DRILL RECORD

LOCATION_____ DIRECTION_____ DIP_____ HOLE No. GO-44

LOGGED BY_____ CASING_____ SHEET No. 6

STARTED_____ CORE SIZE_____ CORRECTED TESTS_____

FINISHED_____

PROPERTY_____

FROM meters	TO		DESCRIPTION
			141.17 - 141.67 Aphanitic felsic band 142.0 - 142.11 Same as 141.17 - 141.67 142.47 - 143.15 Same as 141.17 - 141.67 143.9 - 143.96 Same as 141.17 - 141.67 144.02 - 144.12 Same as 141.17 - 141.67 158.0 - 166.5 Fine grained medium grey sericitic felsic metatuffs? with trace to ½% pyrite and clear to cloudy gash quartz veins
166.5	176.0		MAFIC AMPHIBOLITE 1a, b (2a) Fine grained dark green layered and massive mafic amphibolite including narrow interlayered bands of felsic metatuffs? Pyrite mineralization ranges from nil to trace as fine disseminations. Chlorite rich bands which are only a few millimeters wide are abundant and may be remnant pillow selvages. Brown biotite/chlorite bands/wisps are commonly mineralized with magnetic pyrrhotite in trace amounts. 166.5 - 176.0 Layered mafic amphibolite with narrow massive bands. Nil pyrite 166.5 - 167.72 Interlayering of layered mafic amphibolite with fine grained felsic metatuffs 171.96 - 172.06 Fine grained felsic metatuffs band 172.6 - 172.7 Same as 171.96 - 172.06 172.84 - 172.91 Same as 171.96 - 172.06

FALCONBRIDGE NICKEL MINES LIMITED

DIAMOND DRILL RECORD

LOCATION_____ DIRECTION_____ DIP_____ HOLE No. GO-44

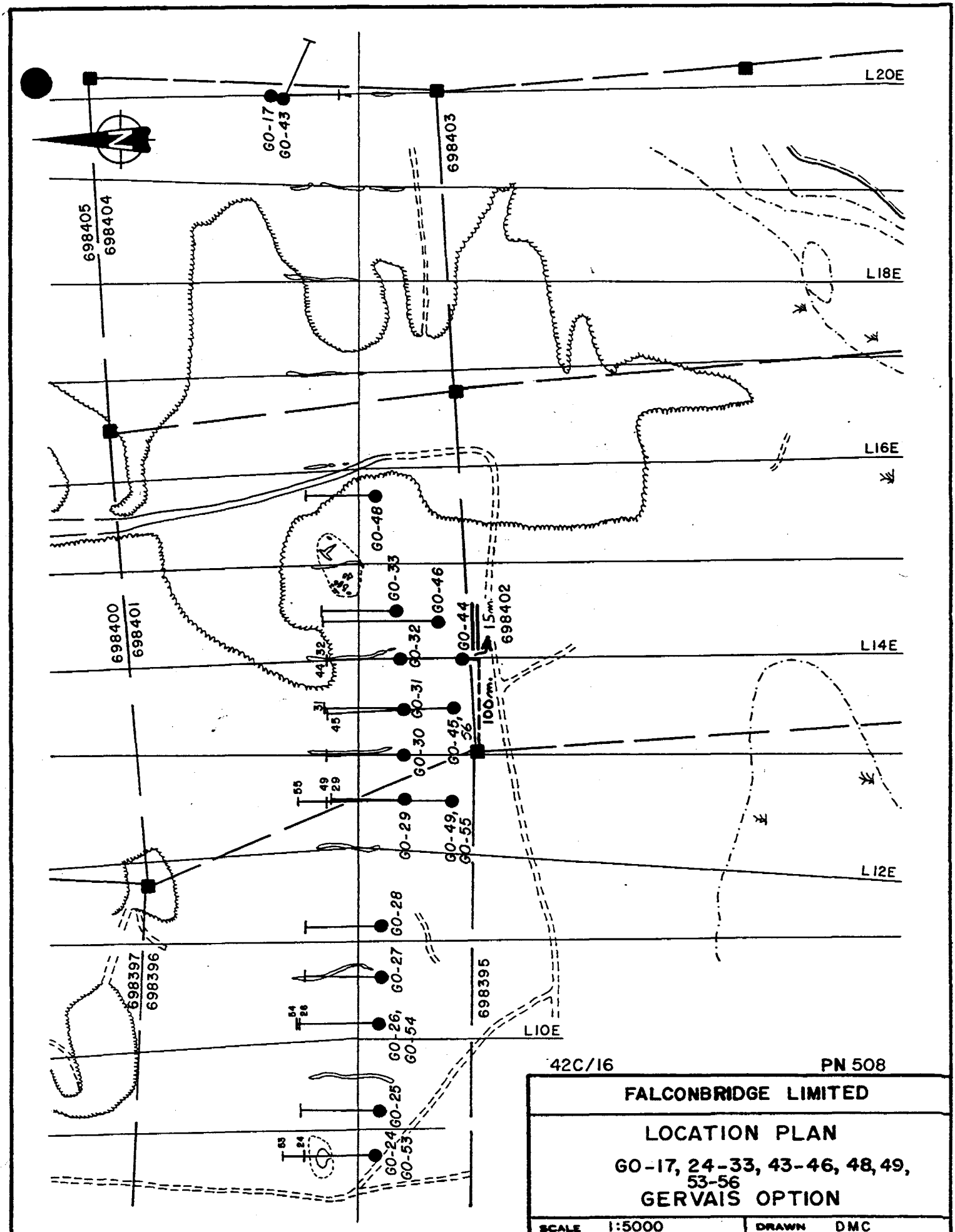
LOGGED BY_____ CASING_____ SHEET No. 7

STARTED_____ CORE SIZE_____ CORRECTED TESTS_____

FINISHED_____

PROPERTY_____

FROM	TO		DESCRIPTION
~~meters~~			
			175.76 - 175.90 Same as 171.96 - 172.06
	176.0		END OF HOLE
			Contractor: Bradley Brothers Diamond Drilling Limited, Timmins, Ontario.
			Core is being stored at camp on Gervais Property southeast of Oba, Ontario.


L20E
L18E
L16E
L14E
L12E
L10E
698403
698405
698404
698400
698401
698402
698397
698396
698395
GO-17
GO-43
GO-48
GO-33
GO-46
GO-44
GO-32
GO-31
GO-45, 56
GO-30
GO-29
GO-49, GO-55
GO-28
GO-27
GO-26, GO-54
GO-25
GO-24, GO-53
15m.
100m.
42C/16
PN 508
FALCONBRIDGE LIMITED
LOCATION PLAN
GO-17, 24-33, 43-46, 48, 49, 53-56
GERVAIS OPTION
SCALE 1:5000
DRAWN DMC
DATE MAY 1985
DATA BY
REVISED: MAR. 1986
Richard Kenning

FALCONBRIDGE NICKEL MINES LIMITED

DIAMOND DRILL RECORD

LOCATION L13 + 50E; 0 + 98S DIRECTION AZ 357° DIP -50° HOLE No. GO-45

LOGGED BY Bruce Miller CASING 5m SHEET No. 1

STARTED March 22, 1985 CORE SIZE BQ CORRECTED TESTS 4m-50°, 35m-47°,

FINISHED March 27, 1985 65m-47.5°, 95m-45.7°, 125m-44°, 155m-44.5°, 185m-41.5°

PROPERTY Gervais Option, Oba, Ontario (PN 508)

FROM meters	TO		SUMMARY LOG DESCRIPTION
0.0	5.0		CASING
5.0	188.43		FELSIC GNEISS COMPLEX 2a, b (1a, 5c)
188.43	191.12		MAFIC AMPHIBOLITE 1a, b (2a)
	191.12		END OF HOLE
			Contractor: Bradley Brothers Diamond Drilling Limited, Timmins, Ontario.
			Core is being stored at camp on Gervais property southeast of Oba, Ontario.

Richard Kenny

FALCONBRIDGE NICKEL MINES LIMITED

DIAMOND DRILL RECORD

LOCATION L13 + 50E; 0 + 98S DIRECTION AZ 357° DIP -50° HOLE No. GO-45

LOGGED BY Bruce Miller CASING 5m SHEET No. 1

STARTED March 22, 1985 CORE SIZE BQ CORRECTED TESTS 4m-50°, 35,-47°,

FINISHED March 27, 1985 65m-47.5°, 95m-45.7°, 125m-44°, 155m-44.5°,

PROPERTY Gervais Option, Oba, Ontario PN 508 185m-41.5°

FROM meters	TO		DESCRIPTION
0.0	5.0		CASING
5.0	188.43		FELSIC GNEISS COMPLEX 2a, b (1a, 5c)

Coarse grained medium grey granodiorite gneiss down to 155 meters and medium to fine grained felsic gneisses and metatuffs from 155 meters to the contact at 188.43. Transitions from coarse grained granodiorite gneisses to medium grained gneisses and finally to fine grained felsic metatuffs? are all gradational.

Fine grained and aphanitic felsic to intermediate bands occur randomly throughout the felsic section and are generally non-mineralized.

Fine grained chloritic and silicified mafic amphibolite bands are rare and have intermediate compositions in well silicified zones.

Coarse grained pink to white pegmatite dykes are present in seven different locations and all are cross-cutting.

Pyrite occurs as disseminations and clots and is usually enriched around silicified zones in medium and fine grained gneisses and metatuffs?. Medium grained gneisses carry nil to trace to local ½% disseminations while fine grained felsic metatuffs contain trace to ½% to 1% disseminations. Local 1½% disseminations are common within the metatuffs?.

Biotite is enriched in the coarse grained gneisses while the more fine grained metatuff? phase is sericitic.

FALCONBRIDGE NICKEL MINES LIMITED

DIAMOND DRILL RECORD

LOCATION_____ DIRECTION_____ DIP_____ HOLE No. GO-45

LOGGED BY_____ CASING_____ SHEET No. 2

STARTED_____ CORE SIZE_____ CORRECTED TESTS_____

FINISHED_____

PROPERTY_____

FROM	TO		DESCRIPTION
			Clear to cloudy gash quartz veins are present throughout the hole and are both discordant and concordant.
			5.0 - 143.8 Coarse grained medium grey foliated granodiorite gneiss with occasional medium grained phases, weakly porphyritic sections, fine grained felsic to intermediate bands, mafic amphibolite bands, discordant and concordant gash quartz veins moderate biotite enrichment in places and nil to rare trace pyrite.
			5.1 - 5.5 Fine grained medium grey felsic band
			9.13 - 10.07 Fine grained medium grey felsic band
			11.1 - 12.57 Fine grained medium grey felsic band
			11.67 - 11.76 Coarse grained pink pegmatite dyke
			12.1 - 12.18 Coarse grained pink pegmatite dyke
			14.36 - 14.43 Fine grained medium grey felsic band
			15.57 - 15.80 Aphanitic felsic band - one coarse grained pyrite clot with hairline fracture coatings
			17.43 - 17.6 Fine to medium grained light grey mottled felsic band
			17.6 - 18.08 Fine grained massive mafic amphibolite band
			19.76 - 19.85 Fine grained medium grey felsic band
			20.25 - 20.44 Fine grained medium grey felsic band
			21.05 - 22.58 Fine grained medium grey felsic band - with lower contact filled.

FALCONBRIDGE NICKEL MINES LIMITED

DIAMOND DRILL RECORD

LOCATION_____ DIRECTION_____ DIP_____ HOLE No. GO-45

LOGGED BY_____ CASING_____ SHEET No. 3

STARTED_____ CORE SIZE_____ CORRECTED TESTS_____

FINISHED_____

PROPERTY_____

FROM	TO		DESCRIPTION
			23.27 - 23.40 Fine grained medium grey felsic band 28.85 - 29.02 Clear gash quartz vein 32.6 - 32.77 Aphanitic felsic band 32.8 - 32.91 Fine to medium grained weakly porphyritic felsic band 35.2 - 35.3 Silicified mafic amphibolite band 38.2 - 38.77 Fine grained medium grey felsic band 39.8 - 39.95 Clear to white gash quartz vein 42.35 - 42.56 Fine grained medium grey weakly porphyritic felsic band 42.46 - 42.50 Coarse grained pink pegmatite dyke 46.34 - 46.63 Aphanitic felsic band 46.81 - 46.91 Fine grained medium grey weakly porphyritic felsic to intermediate band 48.37 - 48.49 Fine grained medium grey weakly porphyritic felsic to intermediate band 49.63 - 49.79 Fine grained medium grey weakly porphyritic felsic to intermediate band 51.28 - 51.86 Aphanitic felsic band 51.86 - 51.94 Fine grained felsic to intermediate band 55.6 - 55.76 Fine grained weakly porphyritic intermediate band 58.03 - 58.11 Chloritic mafic amphibolite band

FALCONBRIDGE NICKEL MINES LIMITED

DIAMOND DRILL RECORD

LOCATION_____ DIRECTION_____ DIP_____ HOLE No. GO-45

LOGGED BY_____ CASING_____ SHEET No. 4

STARTED_____ CORE SIZE_____ CORRECTED TESTS_____

FINISHED_____

PROPERTY_____

FROM	TO		DESCRIPTION
			64.85 - 65.08 Mafic amphibolite band 65.25 - 65.43 Silicified mafic amphibolite band 65.43 - 65.61 Fine to medium grained felsic band - weakly porphyritic 65.61 - 65.63 Mafic amphibolite band 68.52 - 68.56 Coarse grained pink pegmatite dyke 69.46 - 69.63 Fine to medium grained weakly porphyritic felsic to intermediate band 71.94 - 74.14 Coarse grained whitish pink pegmatite dyke 74.92 - 75.14 Fine grained mafic amphibolite with 10 cm gash quartz vein 78.06 - 78.44 Fine to medium grained medium grey felsic band - weakly porphyritic 79.84 - 80.1 Fine grained medium grey felsic band 80.26 - 80.67 Fine grained medium grey intermediate band 80.88 - 81.02 Fine to medium grained medium grey felsic band - weakly porphyritic 81.6 - 81.7 Fine to medium grained medium grey felsic band - weakly porphyritic 81.86 - 82.9 Aphanitic felsic band 82.9 - 83.0 Chloritic mafic amphibolite band 83.63 - 83.94 Fine grained felsic to intermediate band 84.12 - 84.37 Fine grained felsic to intermediate band

FALCONBRIDGE NICKEL MINES LIMITED

DIAMOND DRILL RECORD

LOCATION_____ DIRECTION_____ DIP_____ HOLE No. GO-45

LOGGED BY_____ CASING_____ SHEET No. 5

STARTED_____ CORE SIZE_____ CORRECTED TESTS_____

FINISHED_____

PROPERTY_____

FROM	TO		DESCRIPTION
			89.5 - 89.74 Fine to medium grained weakly porphyritic felsic band
			89.9 - 89.97 Fine grained medium grey felsic band
			90.54 - 90.6 Aphanitic felsic band
			92.27 - 92.52 Aphanitic felsic band
			97.23 - 98.48 Fine to medium grained dark grey intermediate band
			105.88 - 105.92 Fine grained medium grey felsic to intermediate band
			105.92 - 105.96 Aphanitic felsic band
			107.85 - 108.63 Fine grained medium grey felsic to intermediate band
			110.34 - 110.78 Coarse grained white pegmatite dyke
			115.7 - 116.0 Fine to medium grained medium grey felsic band
			118.77 - 119.44 Fine to medium grained medium grey felsic band
			119.6 - 119.69 Fine to medium grained medium grey felsic band
			120.44 - 121.24 Coarse grained pinkish-white pegmatite dyke
			126.6 - 126.93 Interlayered fine grained intermediate bands with medium grained felsic gneisses, gash quartz veins and a 3cm aphanitic felsic band

FALCONBRIDGE NICKEL MINES LIMITED

DIAMOND DRILL RECORD

LOCATION_____ DIRECTION_____ DIP_____ HOLE No. GO-45

LOGGED BY_____ CASING_____ SHEET No. 6

STARTED_____ CORE SIZE_____ CORRECTED TESTS_____

FINISHED_____

PROPERTY_____

FROM	TO		DESCRIPTION
			127.18 - 127.28 Chloritic mafic amphibolite/chlorite schist 127.28 - 127.53 Ground core 127.53 - 131.85 Medium to coarse grained dark grey biotite enriched granodiorite gneiss 134.18 - 134.38 Fine grained medium to dark grey felsic band - biotite enriched 134.58 - 135.21 Aphanitic felsic band 137.64 - 138.86 Coarse grained white pegmatite dyke 142.17 - 142.48 Fine grained medium grey felsic band 142.99 - 143.11 Gash quartz vein tr - ½% pyrite 143.82 - 143.95 Fine grained medium to dark grey felsic to intermediate band 144.85 - 145.2 Fine grained medium grey felsic band 145.58 - 145.69 Fine grained medium to dark grey felsic to intermediate band 146.0 - 147.74 Fine grained medium grey felsic band 148.09 - 148.12 Aphanitic felsic band 150.4 - 170.43 Medium grained variably textured medium grey felsic gneisses which include several concordant clear to cloudy gash quartz veins, occasional aphanitic felsic bands, a few chloritic mafic amphibolite bands and rare fine grained felsic to intermediate bands.

FALCONBRIDGE NICKEL MINES LIMITED

DIAMOND DRILL RECORD

LOCATION_____ DIRECTION_____ DIP_____ HOLE No. GO-45

LOGGED BY_____ CASING_____ SHEET No. 7

STARTED_____ CORE SIZE_____ CORRECTED TESTS_____

FINISHED_____

PROPERTY_____

FROM	TO		DESCRIPTION
			Mineralization ranges from trace to ½% disseminated pyrite with local 1% accumulations.
			Sericite gradually replaces biotite through this section from weak to moderate to strong as grain size reduced.
			157.84 - 158.16 Fine grained medium grey felsic to intermediate band
			158.3 - 158.41 Fine grained mafic amphibolite band
			159.49 - 159.63 Aphanitic felsic band
			161.61 - 161.91 Aphanitic felsic band
			162.03 - 162.56 Aphanitic felsic band
			165.39 - 165.96 Fine grained dark grey intermediate band
			176.06 - 176.09 Fine grained mafic amphibolite band
			170.43 - 188.43 Fine grained sericitic felsic metatuffs? which include narrow concordant clear quartz veins and narrow aphanitic felsic bands. Trace to ½% disseminate pyrite.
			180.9 - 181.4 Medium grained medium grey felsic gneiss
188.43	191.12		MAFIC AMPHIBOLITE 1a, b (2a)
			Fine grained dark green layered and massive mafic amphibolite with occasional narrow fine grained felsic metatuff? band. Contains nil to trace disseminated pyrite and hairline pyrite fracture coatings. Brown biotite-chlorite wisps are common closer to the contact. Cloudy gash quartz veins are both discordant and concordant.

FALCONBRIDGE NICKEL MINES LIMITED

DIAMOND DRILL RECORD

LOCATION_____ DIRECTION_____ DIP_____ HOLE No. GO-45

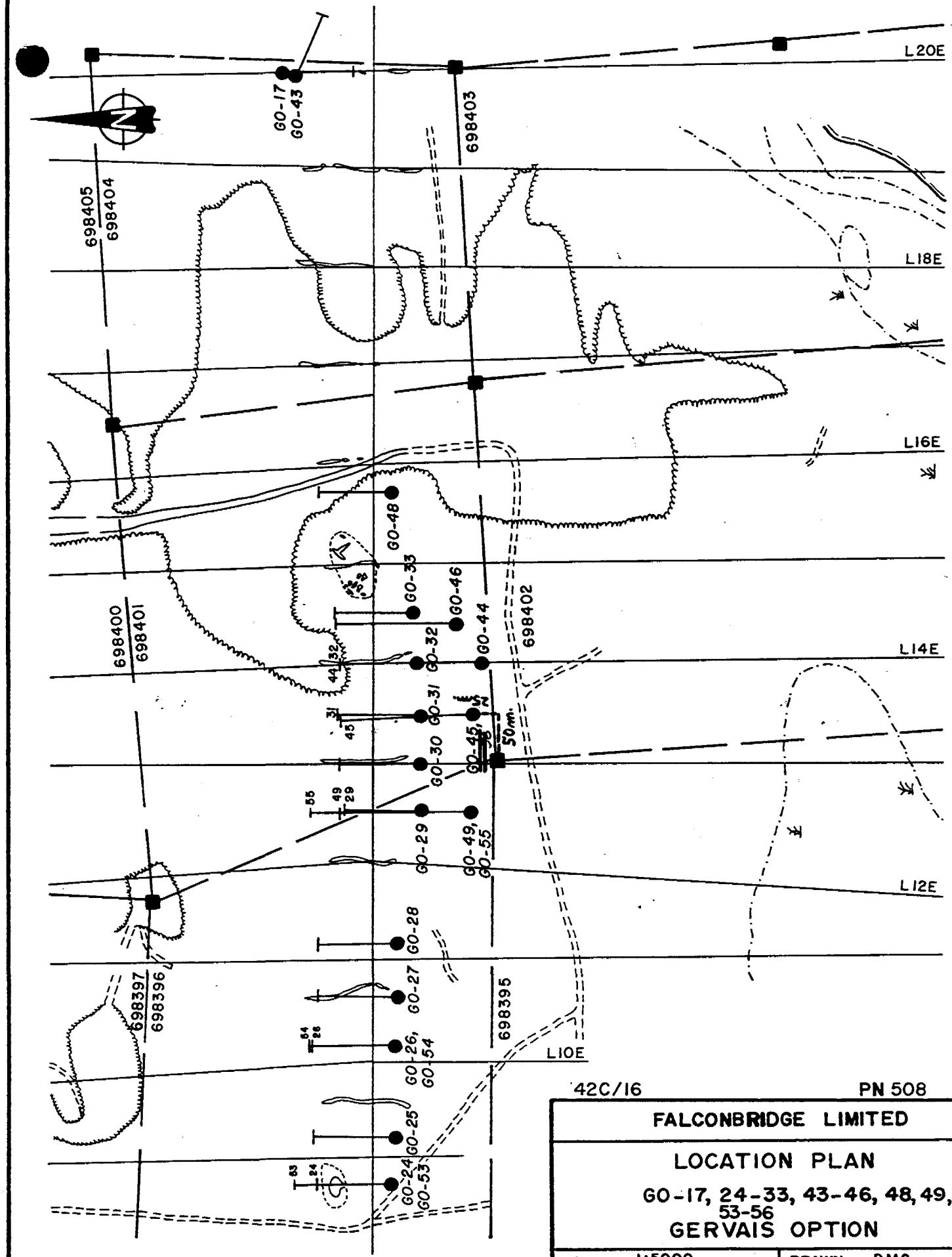
LOGGED BY_____ CASING_____ SHEET No. 8

STARTED_____ CORE SIZE_____ CORRECTED TESTS_____

FINISHED_____

PROPERTY_____

FROM	TO		DESCRIPTION
			189.48 - 189.52 Aphanitic felsic band
			190.41 - 190.51 Aphanitic felsic band
			190.9 - 191.04 Fine grained felsic metatuff band
			191.08 - 191.12 Fine grained felsic metatuff band
	191.12		END OF HOLE
			Contractor: Bradley Brothers Diamond Drilling Limited, Timmins, Ontario.
			Core is being stored at camp on Gervais Property southeast of Oba, Ontario.



42C/16 PN 508

FALCONBRIDGE LIMITED

LOCATION PLAN

GO-17, 24-33, 43-46, 48, 49, 53-56
GERVAIS OPTION

SCALE	1:5000	DRAWN	DMC
DATE	MAY 1985	DATA BY	

REVISED: MAR. 1986 Richard Kenny

FALCONBRIDGE NICKEL MINES LIMITED

DIAMOND DRILL RECORD

LOCATION L14 + 40E 0 + 85S DIRECTION AZ 360° DIP -50° HOLE No. GO-46

LOGGED BY Bruce Miller CASING 3.5m SHEET No. 1

STARTED March 27, 1985 CORE SIZE BQ CORRECTED TESTS 37m-50.7°, 66m-

FINISHED March 29, 1985 49.0°, 96m-46.5°, 126m-44.5°, 153m-42.5°

PROPERTY Gervais Option, Oba, Ontario PN 508

FROM meters	TO		SUMMARY LOG DESCRIPTION
0.0	3.5		CASING
3.5	170.23		FELSIC GNEISS COMPLEX 2ab (1a, 5c)
170.23	176.0		MAFIC AMPHIBOLITE 1a, b (2a)
	176.0		END OF HOLE
			Contractor: Bradley Brothers Diamond Drilling Limited, Timmins, Ontario.
			Core is being stored at camp on Gervais Property southeast of Oba, Ontario.

Richard Kenny

FALCONBRIDGE NICKEL MINES LIMITED

DIAMOND DRILL RECORD

LOCATION L14 + 40E 0 + 85S DIRECTION AZ 360° DIP -50° HOLE No. GO-46

LOGGED BY Bruce Miller CASING 3.5m SHEET No. 1

STARTED March 27, 1985 CORE SIZE BQ CORRECTED TESTS 37m-50.7°, 66m-

FINISHED March 29, 1985 49.0, 96m-46.5°, 126m-44.5°, 153m-42.5°

PROPERTY Gervais Option, Oba, Ontario PN 508

FROM Meters	TO		DESCRIPTION
0.0	3.5		CASING
3.5	170.23		FELSIC GNEISS COMPLEX 2ab (1a, 5c)

Coarse grained foliated granodiorite gneiss which grades to medium grained and finally fine grained towards the amphibolite contact.

The coarse grained section which has occasional med. grained transitions, extends from the collar down to ~ 127.5m at which point med. grained gneisses predominate down to ~ 137m and finally fine to med. grained felsic metatuffs down to the contact.

All phases contain felsic to intermediate relatively massive fine grained bands as well as rare mafic amphibolite bands which are commonly chloritic.

Coarse grained white to pink pegmatite dykes occur in 3 separate locations with widths of up to 3 meters (core section).

Biotite enrichment within the coarse grained gneisses changes to sericite enrichment within the fine grained felsic metatuffs

Clear to white gash quartz veins are present throughout the hole in both concordant and discordant varieties.

Pyrite mineralization increases proportionately as grain size decreases; the coarse grained gneisses contain nil to occasional trace disseminated and clot pyrite while fine grained metatuffs contain trace to ½% disseminations, with local 1% enrichments associated with silicification zones.

FALCONBRIDGE NICKEL MINES LIMITED

DIAMOND DRILL RECORD

LOCATION_____ DIRECTION_____ DIP_____ HOLE No. GO-46

LOGGED BY_____ CASING_____ SHEET No. 2

STARTED_____ CORE SIZE_____ CORRECTED TESTS_____

FINISHED_____

PROPERTY_____

FROM (meters)	TO		DESCRIPTION
			3.5 - 127.5 Coarse grained medium grey foliated grano-diorite gneiss with random gash quartz veins and various bands of felsic to intermediate composition, as well as mafic amphibolite bands.
			6.1 - 6.2 Medium grey fine grained felsic band
			6.5 - 6.94 Medium grey fine to medium grained felsic band
			9.57 - 9.76 Chloritic mafic amphibolite band
			10.49 - 11.0 Fine grained medium grey felsic band
			17.48 - 17.69 Fine grained medium grey felsic band - weakly porphyritic
			20.36 - 20.39 Aphanitic felsic band
			21.7 - 22.1 Clear gash quartz vein with clots of muscovite and tourmaline?
			22.22 - 22.33 Fine grained medium grey weakly porphyritic felsic band
			23.62 - 23.79 Same as 22.22 to 22.33
			24.54 - 24.67 Same as 22.22 to 22.33
			25.43 - 26.75 Same as 22.22 to 22.33
			28.74 - 28.84 Same as 22.22 to 22.33
			31.46 - 31.51 Fine grained chloritic mafic amphibolite band
			31.51 - 31.58 Fine grained medium grey felsic band
			32.95 - 33.1 Fine grained medium grey felsic to inter-mediate band

FALCONBRIDGE NICKEL MINES LIMITED

DIAMOND DRILL RECORD

LOCATION_____ DIRECTION_____ DIP_____ HOLE No. G0-46

LOGGED BY_____ CASING_____ SHEET No. 3

STARTED_____ CORE SIZE_____ CORRECTED TESTS_____

FINISHED_____

PROPERTY_____

FROM meters	TO		DESCRIPTION
			33.15 - 33.32 Same as 32.95 - 33.1
			36.31 - 36.44 Fine grained medium grey felsic band
			37.82 - 37.9 Same as 36.31 - 36.44
			39.98 - 40.27 Fine grained mafic amphibolite band
			42.22 - 42.43 Fine grained medium grey weakly porphyritic felsic band
			43.23 - 43.36 Aphanitic felsic band
			44.53 - 44.75 Fine grained medium grey weakly porphyritic felsic to intermediate band
			45.0 - 45.44 Coarse grained pink pegmatite dyke
			47.52 - 47.69 Fine grained medium grey weakly porphyritic felsic to intermediate band
			48.51 - 48.64 Fine grained medium grey weakly porphyritic felsic band
			49.74 - 49.80 Fine grained medium grey felsic band
			50.02 - 50.33 Fine grained dark grey intermediate band
			50.88 - 50.94 Fine grained mafic amphibolite band
			52.85 - 52.95 Fine grained mafic band
			53.29 - 54.09 Aphanitic felsic band
			54.14 - 54.39 Fine grained dark grey intermediate band
			55.93 - 56.0 Fine grained medium grey felsic band
			56.2 - 56.37 Fine grained medium grey weakly porphyritic felsic to intermediate band
			56.5 - 56.99 Aphanitic felsic band

FALCONBRIDGE NICKEL MINES LIMITED

DIAMOND DRILL RECORD

LOCATION_____ DIRECTION_____ DIP_____ HOLE No. GO-46

LOGGED BY_____ CASING_____ SHEET No. 4

STARTED_____ CORE SIZE_____ CORRECTED TESTS_____

FINISHED_____

PROPERTY_____

FROM meters	TO		DESCRIPTION
			59.6 - 59.65 Fine grained dark grey intermediate band
			59.74 - 59.86 Fine grained medium grey felsic to intermediate band
			60.35 - 60.83 Same as 59.74 - 59.86
			61.12 - 61.28 White gash quartz vein
			64.5 - 64.7 Fine grained medium grey weakly porphyritic felsic band
			65.74 - 66.08 Aphanitic felsic band
			72.11 - 73.15 Fine grained medium grey felsic to intermediate band
			78.0 - 78.5 Ground core
			83.8 - 84.45 Fine grained medium grey felsic to intermediate band
			85.6 - 85.87 Same as 83.8 - 84.45
			85.95 - 86.15 Same as 83.8 - 84.45
			86.25 - 86.3 Same as 83.8 - 84.45
			92.87 - 93.25 Fine grained medium grey felsic band - weakly porphyritic
			97.50 - 97.62 Fine grained medium grey felsic band
			97.7 - 98.84 Fine grained medium grey felsic band - weakly porphyritic
			101.72 - 102.23 Chloritic mafic amphibolite band

FALCONBRIDGE NICKEL MINES LIMITED

DIAMOND DRILL RECORD

LOCATION_____ DIRECTION_____ DIP_____ HOLE No. GO-46

LOGGED BY_____ CASING_____ SHEET No. 5

STARTED_____ CORE SIZE_____ CORRECTED TESTS_____

FINISHED_____

PROPERTY_____

FROM meters	TO		DESCRIPTION
			102.23 - 102.37 White gash quartz vein
			102.56 - 103.45 Chloritic mafic amphibolite band (35 cm ground core)
			103.45 - 106.53 Aphanitic felsic band
			103.66 - 103.75 Medium grained granodiorite gneiss
			103.80 - 103.85 Same as 103.66 - 103.75
			107.63 - 107.89 Fine grained medium grey felsic band
			109.21 - 110.94 Fine grained/aphanitic medium grey felsic band
			110.6 - 110.64 Fine grained dark grey intermediate band
			116.95 - 117.28 Coarse grained pinkish white pegmatite dyke
			119.0 - 120.66 Fine to medium grained medium grey felsic band
			121.97 - 125.02 Coarse grained pink pegmatite dyke
			127.6 - 137.0 Medium grained weakly mottled felsic gneiss
			128.32 - 128.39 Fine grained medium grey felsic band
			128.46 - 130.77 Fine grained/aphanitic medium grey felsic band
			131.11 - 131.28 Same as 128.46 - 130.77
			132.32 - 133.32 Same as 128.46 - 130.77
			133.79 - 133.83 Same as 128.46 - 130.77
			134.49 - 134.69 Same as 128.46 - 130.77

FALCONBRIDGE NICKEL MINES LIMITED

DIAMOND DRILL RECORD

LOCATION_____ DIRECTION_____ DIP_____ HOLE No. GO-46

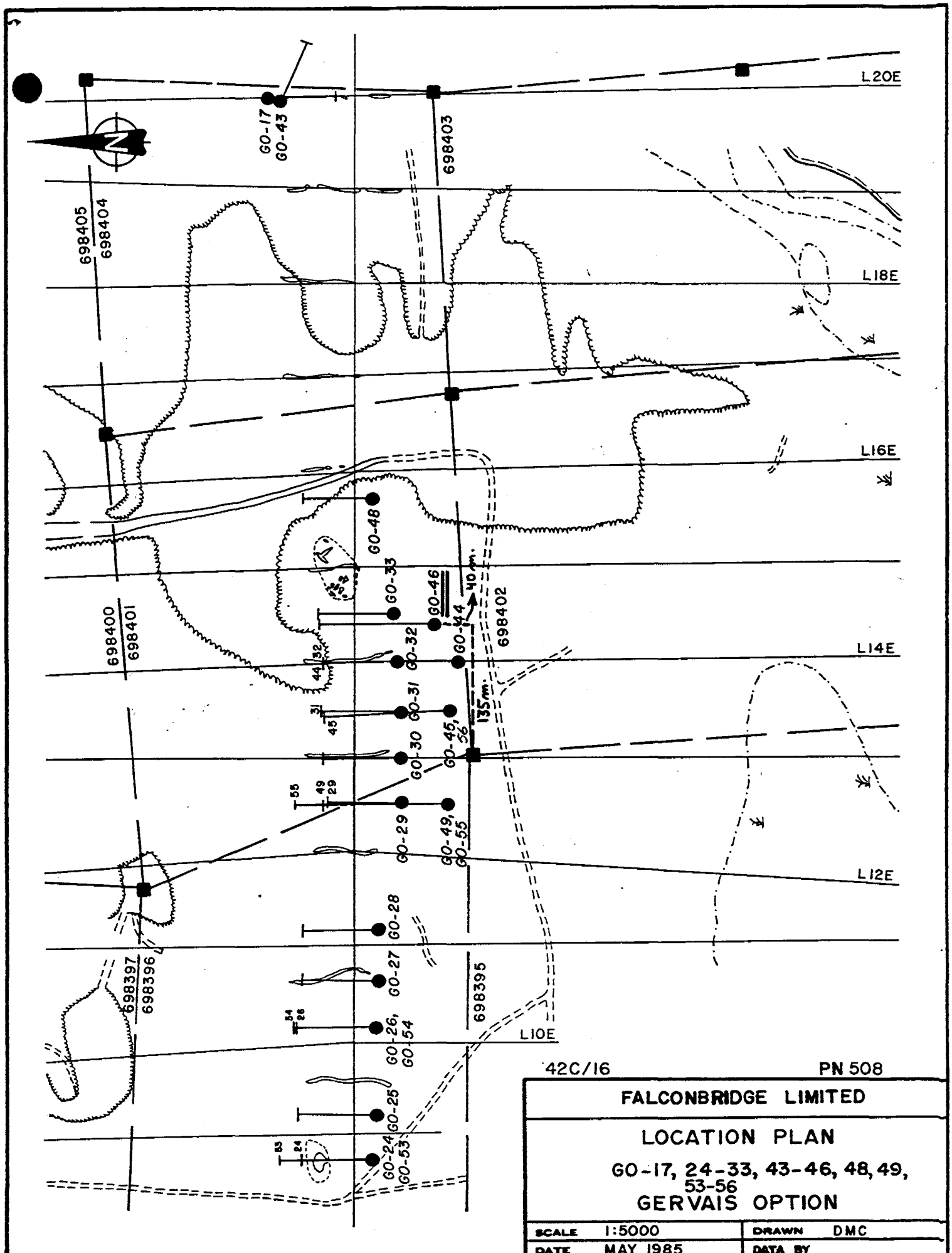
LOGGED BY_____ CASING_____ SHEET No. 6

STARTED_____ CORE SIZE_____ CORRECTED TESTS_____

FINISHED_____

PROPERTY_____

FROM meters	TO		DESCRIPTION
			137.0 - 170.23 Fine grained medium greenish grey felsic metatuffs with random gash quartz veins, minor aphanitic felsic bands, nil to trace to ½% disseminated and clot pyrite and weak epidote alteration
			138.41 - 138.56 Fine grained chloritic mafic amphibolite band
			140.43 - 140.51 Aphanitic felsic band
			149.93 - 149.59 Fine grained/aphanitic felsic band
170.23	176.0		MAFIC AMPHIBOLITE 1a, b (2a)
			Fine grained moderately layered mafic amphibolite with hairline quartz-calcite veinlets containing reddish alkali or hematite stain, nil to trace disseminated pyrite and narrow interlayered felsic metatuff? bands.
			170.39 - 170.45 Aphanitic felsic band
			171.8 - 172.09 Interlayered felsic and mafic metavolcanics
			172.56 - 172.62 Fine grained felsic metatuff band
	176.0		END OF HOLE
			Contractor: Bradley Brothers Diamond Drilling Limited, Timmins, Ontario.
			Core is being stored at camp on Gervais Property southeast of Oba, Ontario.



42C/16 PN 508

FALCONBRIDGE LIMITED

LOCATION PLAN

GO-17, 24-33, 43-46, 48, 49, 53-56
GERVAIS OPTION

SCALE	1:5000	DRAWN	DMC
DATE	MAY 1985	DATA BY	

REVISED: MAR. 1986 Richard Kenna

FALCONBRIDGE NICKEL MINES LIMITED

DIAMOND DRILL RECORD

LOCATION L5+50E; 0+19S DIRECTION AZ 360° DIP -50° HOLE No. GO-47

LOGGED BY Bruce Miller CASING 37.0 m SHEET No. 1

STARTED March 30, 1985 CORE SIZE BQ CORRECTED TESTS 37m-50.7°, 66m-49°,

FINISHED April 2, 1985 96m-46.5°, 126m-44.5°, 153m-42.5°

PROPERTY Gervais Option, Oba, Ontario PN 508

FROM	TO		SUMMARY LOG DESCRIPTION
0.0	37.0		CASING
37.0	71.05		FELSIC GNEISS COMPLEX 2ab (1a)
71.05	76.4		MAFIC AMPHIBOLITE 1a, b (2a)
76.4	84.33		FELSIC GNEISS COMPLEX 2a, b (1a)
84.33	84.56		FAULT GOUGE
84.56	143.61		FELSIC GNEISS COMPLEX 2a, b (1a, 5c)
143.61	153.0		MAFIC AMPHIBOLITE 1ab (2a, 6b)
	153.0		END OF HOLE
			Contractor: Bradley Brothers Diamond Drilling Limited, Timmins, Ontario.
			Core is being stored at camp on Gervais Property southeast of Oba, Ontario.

Richard Kenny

FALCONBRIDGE NICKEL MINES LIMITED

DIAMOND DRILL RECORD

LOCATION L5+50E; 0+19S DIRECTION AZ 360° DIP -50° HOLE No. GO -47

LOGGED BY Bruce Miller CASING 37.0m SHEET No. 1

STARTED March 30, 1985 CORE SIZE BQ CORRECTED TESTS 37m-50.7°, 66m-49°,

FINISHED April 2, 1985 96m-46.5°, 126m-44.5°, 153m-42.5°

PROPERTY Gervais Option, Oba, Ontario PN 508

FROM	TO		DESCRIPTION
0.0	37.0		CASING
37.0	71.05		FELSIC GNEISS COMPLEX 2ab (1a)

Medium grained altered and foliated felsic gneiss with occasional fine grained and aphanitic felsic bands.

Due to the proximity to the Shenango Lake Fault (84.33-84.56 meters down hole) the gneisses are highly fractured and contain abundant quartz-calcite & quartz-calcite-epidote veinlets and are non-mineralized. Reddish hematite stain is present in highly fractured zones - this may or may not be accompanied by alkali metasomatism.

Clear gash quartz veins are rare.

37.0 - 71.05 Medium grained greenish-grey felsic gneiss with abundant quartz-calcite veinlets and occasional reddish stained sections.

38.76 - 38.85 Pink aphanitic felsic band

39.57 - 40.17 Fine grained greenish grey felsic band

40.91 - 50.02 Fine grained amphibolite band

42.1 - 42.35 Fine grained medium grey felsic band

46.25 - 47.1 Fine grained medium grey weakly porphyritic felsic band

47.6 - 47.91 Fine grained medium grey weakly porphyritic felsic band

48.34 - 48.54 Aphanitic pink felsic band

FALCONBRIDGE NICKEL MINES LIMITED

DIAMOND DRILL RECORD

LOCATION_____ DIRECTION_____ DIP_____ HOLE No. G0-47

LOGGED BY_____ CASING_____ SHEET No. 2

STARTED_____ CORE SIZE_____ CORRECTED TESTS_____

FINISHED_____

PROPERTY_____

FROM	TO		DESCRIPTION
			48.8 - 49.2 Highly fractured and hematite altered rubbley reddish felsic gneiss. Nil mineralization.
			51.07 - 51.27 Fine grained medium grey felsic band
			51.65 - 51.76 Fine grained medium grey felsic band
			53.18 - 55.34 Highly fractured and hematite altered reddish felsic gneiss. Nil mineralization.
			58.76 - 59.46 Fine grained medium grey felsic band
			60.5 - 60.64 Aphanitic pink felsic band
			64.04 - 65.81 Fine grained medium grey felsic band
			67.8 - 67.84 Fine grained amphibolite band
			69.79 - 71.05 Fine grained medium grey felsic band
			69.99 - 70.03 Medium grained felsic gneiss band
			70.3 - 70.43 Medium grained felsic gneiss band
71.05	76.4		MAFIC AMPHIBOLITE 1a, b (2a)
			Fine grained massive and in part weakly layered mafic amphibolite with occasional minor medium grey fine grained felsic band.
			There is no mineralization in either the felsic or mafic metavolcanic bands.
			Hairline quartz-calcite veinlets are present but not abundant.

FALCONBRIDGE NICKEL MINES LIMITED

DIAMOND DRILL RECORD

LOCATION_____ DIRECTION_____ DIP_____ HOLE No. GO-47

LOGGED BY_____ CASING_____ SHEET No. 3

STARTED_____ CORE SIZE_____ CORRECTED TESTS_____

FINISHED_____

PROPERTY_____

FROM	TO		DESCRIPTION
			Only one 1 cm gash quartz vein is present.
			71.26 - 71.35 Aphanitic medium grey felsic band
			72.14 - 72.19 Aphanitic medium grey felsic band
			73.0 - 73.1 Aphanitic medium grey felsic band which has been offset along a hairline quartz calcite vein approximately 3 cm.
			73.76 - 73.88 Fine grained medium grey felsic gneiss band
			74.12 - 74.26 Fine grained medium grey felsic gneiss band
76.4	84.33		FELSIC GNEISS COMPLEX 2a, b (1a)
			Medium grained medium greenish-grey felsic gneiss with several hairline quartz-calcite veinlets and weak to moderate to strong hematite/alkali alteration. Alteration increases approaching the fault at 84.35 m.
			Quartz-calcite epidote veinlets are both discordant and concordant.
			80.21 - 80.33 Dark green chloritic mafic amphibolite band
84.33	84.56		FAULT GOUGE
			Fine grained milled quartz-calcite-epidote groundmass with angular 1 cm hematite altered felsic gneiss fragments. Nil mineralization.
84.56	143.61		FELSIC GNEISS COMPLEX 2a, b (1a, 5c)
			Medium grained greenish grey felsic gneiss becoming less greenish and gradually more fine grained down hole to the mafic amphibolite contact at 143.61 meters.

FALCONBRIDGE NICKEL MINES LIMITED

DIAMOND DRILL RECORD

LOCATION_____ DIRECTION_____ DIP_____ HOLE No. G0-47

LOGGED BY_____ CASING_____ SHEET No. 4

STARTED_____ CORE SIZE_____ CORRECTED TESTS_____

FINISHED_____

PROPERTY_____

FROM	TO		DESCRIPTION
			Both hairline quartz-calcite veinlets and reddish hematite alteration diminish rapidly down hole from the fault in comparison with the highly altered uphole gneisses.
			Biotite gradually alters to sericite from medium to fine grained felsic gneisses and metatuffs?
			Pyrite mineralization ranges from nil to trace in the unaltered medium grained gneisses to trace to ½% disseminated and clot pyrite within the felsic metatuffs.
			Random discordant and concordant clear to cloudy gash quartz veins commonly coarse grained pyrite clots and muscovite books.
			Chloritic mafic amphibolite bands have variable widths and occur in five separate locations - none are mineralized.
			84.56 - 85.4 Reddish altered medium grained felsic gneiss - abundant hairline quartz-calcite epidote veinlets
			85.4 - 97.65 Moderately altered greenish-grey medium grained felsic gneiss with several hairline quartz-calcite veinlets. Nil pyrite.
			87.25 - 87.45 Chloritic mafic amphibolite band
			87.74 - 88.5 Fine grained greenish grey felsic band
			89.52 - 89.57 Fine grained chloritic silicified mafic amphibolite band
			89.57 - 90.14 Fine grained pinkish grey weakly porphyritic felsic band
			90.44 - 90.5 Silicified fine grained mafic amphibolite

FALCONBRIDGE NICKEL MINES LIMITED

DIAMOND DRILL RECORD

LOCATION_____ DIRECTION_____ DIP_____ HOLE No. GO-47

LOGGED BY_____ CASING_____ SHEET No. 5

STARTED_____ CORE SIZE_____ CORRECTED TESTS_____

FINISHED_____

PROPERTY_____

FROM	TO		DESCRIPTION
			band
			94.36 - 94.63 Fine grained/aphanitic greenish grey felsic band
			95.19 - 95.24 Minor fault zone - fault gouge - nil pyrite
			95.45 - 95.48 Minor fault zone - fault gouge - nil pyrite
			96.32 - 96.66 Chloritic mafic amphibolite which is bounded by milled fault gouge - nil pyrite.
			97.65 - 98.03 Coarse grained pinkish - white pegmatite dyke
			98.03 - 123.53 Medium grained medium grey felsic gneiss with occasional random quartz-calcite veinlets, clear to cloudy gash quartz veins and nil to trace clot and disseminated pyrite.
			101.57 - 101.98 Fine grained medium grey felsic band
			109.08 - 109.56 Fine grained layered mafic amphibolite band
			114.3 - 114.42 Fine grained medium grey felsic band
			115.43 - 115.69 Fine grained mafic amphibolite band
			120.93 - 121.32 Aphanitic felsic band
			122.16 - 122.76 Aphanitic felsic band
			123.03 - 123.25 Aphanitic felsic band
			123.53 - 123.77 Aphanitic felsic band
			123.77 - 143.61 Fine grained medium grey felsic metatuffs with moderate to strong sericite alteration and trace to ½% disseminated pyrite. Narrow concordant and discordant gash quartz veins are present throughout the metatuff section.

FALCONBRIDGE NICKEL MINES LIMITED

DIAMOND DRILL RECORD

LOCATION_____ DIRECTION_____ DIP_____ HOLE No. GO-47

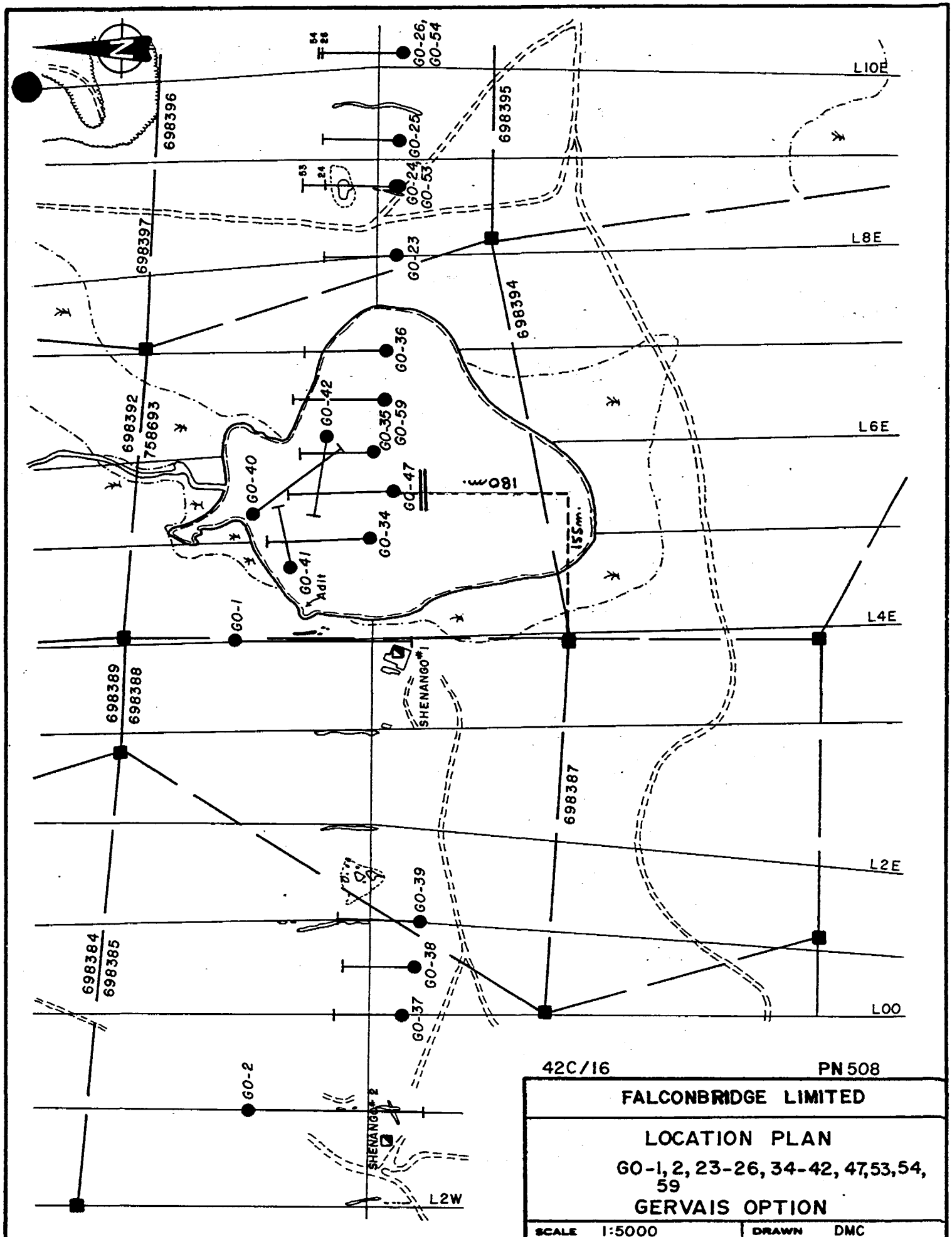
LOGGED BY_____ CASING_____ SHEET No. 6

STARTED_____ CORE SIZE_____ CORRECTED TESTS_____

FINISHED_____

PROPERTY_____

FROM	TO		DESCRIPTION
			124.0 - 125.26 Fine grained medium grey felsic band
			126.28 - 126.37 Aphanitic felsic band
			137.72 - 137.9 Fine grained medium grey felsic band
			138.3 - 138.62 Fine grained medium grey felsic band
			142.9 - 143.0 Aphanitic felsic band
			143.0 - 143.3 Fine grained interlayered felsic and mafic metavolcanics
143.61	153.0		MAFIC AMPHIBOLITE lab (2a, 6b)
			Fine grained interlayered massive and layered mafic amphibolites with intercalated bands of felsic metavolcanics.
			Chlorite rich zones are present along with narrow chloritic wisps which give the layered amphibolites their character.
			Nil to trace pyrite is the extent of any mineralization.
			One fine grained/aphanitic lamprophyre dyke contains coarse grained pyrite clots.
			144.15 - 144.6 Chlorite rich, weakly sheared mafic amphibolite.
			150.34 - 151.88 Fine grained lamprophyre dyke
			152.75 - 153.0 Aphanitic felsic band
	153.0		END OF HOLE
			Contractor: Bradley Brothers Diamond Drilling Limited, Timmins, Ontario.
			Core is being stored at camp on Gervais Property southeast of Oba, Ontario.



42C/16 PN 508

FALCONBRIDGE LIMITED

LOCATION PLAN

GO-1, 2, 23-26, 34-42, 47, 53, 54, 59

GERVAIS OPTION

SCALE 1:5000	DRAWN DMC
DATE MAY 1985	DATA BY

REVISED: FEB. 1986 Richard Kenny

FALCONBRIDGE NICKEL MINES LIMITED

DIAMOND DRILL RECORD

LOCATION L15+74E; 0+20S DIRECTION AZ 360° DIP -45° HOLE No. GO-48

LOGGED BY Bruce Miller CASING 5m SHEET No. 1

STARTED April 2, 1985 CORE SIZE BQ CORRECTED TESTS 6m-42.5°, 35m-42.5°,

FINISHED April 5, 1985 65m-40.5°, 95m-39.2°

PROPERTY Gervais Option, Oba, Ontario PN 508

FROM	TO		SUMMARY LOG DESCRIPTION
0.0	5.0		CASING
5.0	100.2		FELSIC GNEISS COMPLEX 2a, b (1a,5c)
100.2	107.0		MAFIC AMPHIBOLITE 1a, b (2a)
	107.0		END OF HOLE
			Contractor: Bradley Brothers Diamond Drilling Limited, Timmins, Ontario.
			Core is geing stored at camp on Gervais Property southeast of Oba, Ontario.

Richard Kenny

FALCONBRIDGE NICKEL MINES LIMITED

DIAMOND DRILL RECORD

LOCATION L15+74E; 0+20S DIRECTION AZ 360° DIP -45° HOLE No. GO-48

LOGGED BY Bruce Miller CASING 5m SHEET No. 1

STARTED April 2, 1985 CORE SIZE BQ CORRECTED TESTS 6m-42.5°, 35m-42.5°

FINISHED April 5, 1985 65m-40.5°, 95m-39.2°

PROPERTY Gervais Option, Oba, Ontario PN 508

FROM	TO		DESCRIPTION
0.0	5.0		CASING
5.0	100.2		FELSIC GNEISS COMPLEX 2a, b (1a,5c)

Coarse grained medium grey felsic gneiss which gradually becomes finer grained down hole to a transitional contact with fine grained felsic metatuffs? which are present to the mafic amphibolite contact at 100.2 meters.

Biotite in the felsic gneisses is replaced by sericite in the felsic metatuffs?

Fine grained and aphanitic felsic bands are present throughout the hole. Mafic amphibolite bands have been altered and sheared to form chlorite schists.

Pyrite occurs as fracture coatings and coarse grained clots in the felsic gneisses and is finely disseminated in the fine grained metatuffs in trace to ½% amounts.

Coarse grained muscovite is common in quartz gashes throughout the coarse and medium grained section.

One pink pegmatite dyke is present in the medium to coarse grained section.

5.0 - 29.3 Coarse grained medium grey felsic gneisses with random gash quartz veins which may or may not contain pyrite and/or muscovite clots.

6.65 - 7.18 Fine to medium grained felsic gneiss band

9.9 - 10.1 Fine grained medium grey felsic band

17.0 - 17.46 Weakly silicified zone along hairline fractures

FALCONBRIDGE NICKEL MINES LIMITED

DIAMOND DRILL RECORD

LOCATION_____ DIRECTION_____ DIP_____ HOLE No. GO-48

LOGGED BY_____ CASING_____ SHEET No. 2

STARTED_____ CORE SIZE_____ CORRECTED TESTS_____

FINISHED_____

PROPERTY_____

FROM	TO		DESCRIPTION
			19.5 - 20.76 Fine grained medium to dark grey felsic to intermediate band 26.1 - 26.19 Fine grained medium to dark grey intermediate band 28.87 - 29.04 Fine grained medium to dark grey felsic to intermediate band 29.3 - 68.29 Medium grained medium grey felsic gneiss with clear to cloudy gash quartz veins, nil to trace pyrite except along occasional hairline fractures and silicified zones where ½% pyrite is usual. 29.6 - 30.15 Chlorite schist - altered mafic amphibolite band 34.6 - 35.4 Coarse grained pink pegmatite dyke 36.88 - 37.66 Aphanitic felsic band 39.03 - 39.07 Aphanitic intermediate band 39.07 - 39.22 Aphanitic felsic band 39.29 - 39.33 Aphanitic felsic band 39.36 - 39.42 Aphanitic intermediate band 39.83 - 40.0 Fine grained medium grey felsic band 40.31 - 40.47 Aphanitic felsic band 41.31 - 41.39 Aphanitic medium grey felsic band 42.6 - 43.35 Aphanitic felsic band (5 cm ground core) 43.35 - 44.45 Fine grained medium grey felsic band

FALCONBRIDGE NICKEL MINES LIMITED

DIAMOND DRILL RECORD

LOCATION_____ DIRECTION_____ DIP_____ HOLE No. GO-48

LOGGED BY_____ CASING_____ SHEET No. 3

STARTED_____ CORE SIZE_____ CORRECTED TESTS_____

FINISHED_____

PROPERTY_____

FROM	TO		DESCRIPTION
			44.45 - 46.5 Aphanitic felsic band 46.7 - 47.18 Fine grained medium grey felsic band 47.18 - 47.28 Aphanitic felsic band 47.44 - 47.54 Aphanitic felsic band 47.54 - 47.59 Fine grained medium grey felsic band 54.84 - 54.97 Fine grained medium grey felsic band 55.14 - 55.68 Fine grained medium grey felsic band 56.0 - 57.46 Fine grained medium grey felsic band 57.46 - 58.5 Variably textured fine to medium grained silicified felsic gneiss - trace pyrite 58.9 - 61.6 Fine grained medium grey felsic gneiss/meta-tuffs? 63.14 - 63.26 Fine grained medium grey felsic band 64.33 - 64.53 Fine grained dark grey intermediate band 68.29 - 68.71 Fine grained silicified mafic amphibolite band 68.71 - 100.2 Fine grained medium grey weakly sericitic felsic metatuffs - nil to trace (local ½%) pyrite disseminations 83.79 - 83.2 Mafic amphibolite band 90.7 - 91.65 Silicified fine grained felsic metatuffs with minor quartz-calcite veinlets and weak epidote alteration 95.47 - 96.36 Aphanitic felsic band
100.2	107.0		MAFIC AMPHIBOLITE 1a, b (2a) Fine grained dark green layered mafic amphibolite which

FALCONBRIDGE NICKEL MINES LIMITED

DIAMOND DRILL RECORD

LOCATION_____ DIRECTION_____ DIP_____ HOLE No. GO-48

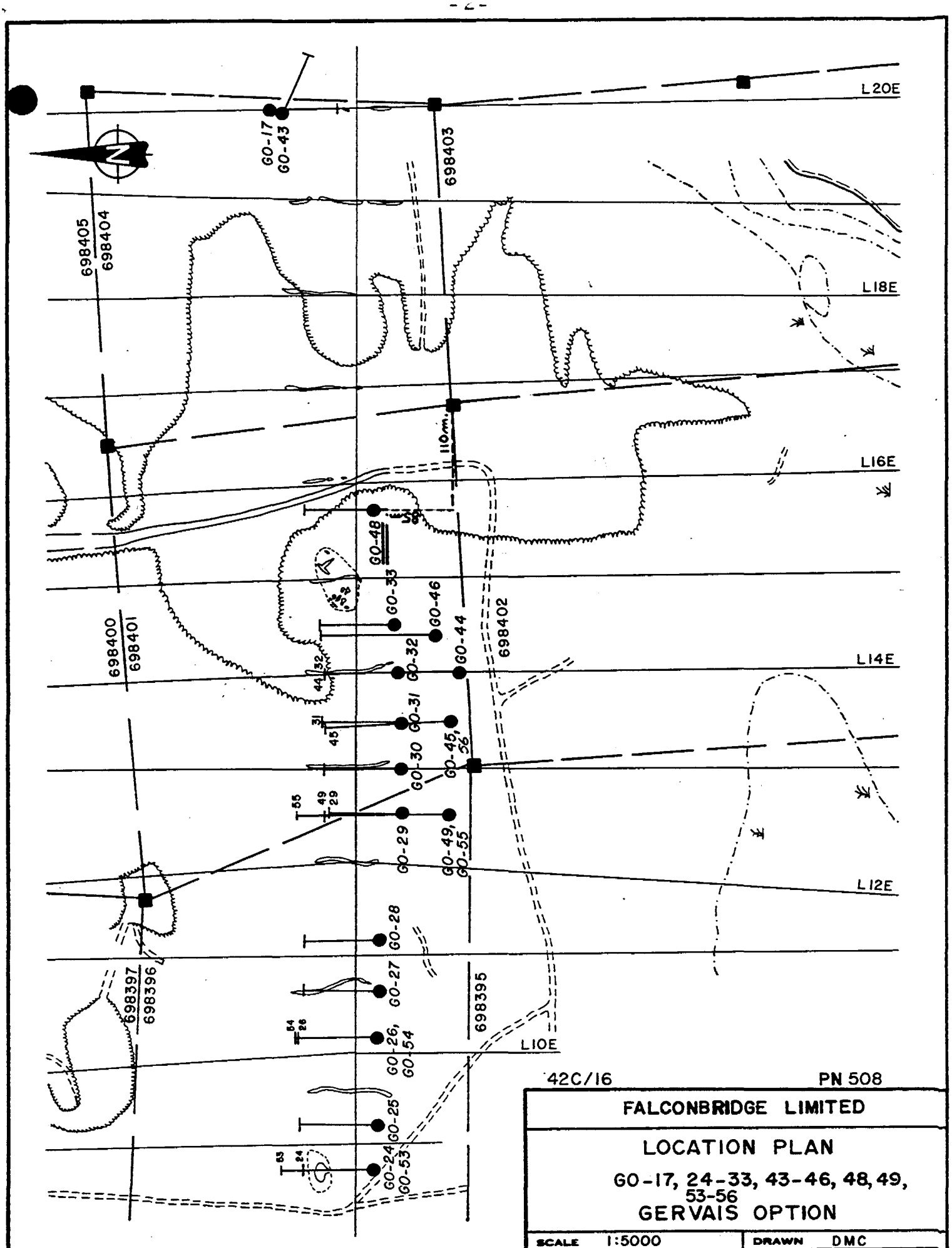
LOGGED BY_____ CASING_____ SHEET No. 4

STARTED_____ CORE SIZE_____ CORRECTED TESTS_____

FINISHED_____

PROPERTY_____

FROM	TO		DESCRIPTION
			includes various widths of interlayered felsic metatuff? bands. Brown biotite/chlorite wisps are common (0.5 cm wide). Narrow concordant gash quartz veins are non-mineralized. Mineralization is minimal with only occasional hairline pyrite fracture coatings.
			100.98 - 101.03 Aphanitic felsic band
			101.51 - 101.63 Felsic metatuff? band - medium grey
			101.82 - 102.26 Felsic metatuff? band - medium grey
			105.81 - 105.88 Felsic metatuff? band - medium grey
	107.0		END OF HOLE
			Contractor: Bradley Brothers Diamond Drilling Limited, Timmins, Ontario.
			Core is being stored at camp on Gervais Property southeast of Oba, Ontario.



42C/16 PN 508

FALCONBRIDGE LIMITED

LOCATION PLAN

GO-17, 24-33, 43-46, 48, 49, 53-56
GERVAIS OPTION

SCALE	1:5000	DRAWN	DMC
DATE	MAY 1985	DATA BY	

REVISED: MAR. 1986 Richard Kenning

FALCONBRIDGE NICKEL MINES LIMITED

DIAMOND DRILL RECORD

LOCATION L12+50E; 0+95S DIRECTION AZ 360° DIP -50° HOLE No. GO-49

LOGGED BY Bruce Miller CASING 4.0 SHEET No. 1

STARTED April 5, 1985 CORE SIZE BQ CORRECTED TESTS 4.5m-48.4°, 35m-

FINISHED April 8, 1985 45.7°, 65m-45°, 92m-48°, 125m-45.5°, 155m-42°,

PROPERTY Gervais Option, Oba, Ontario PN 508 182m-38.7°

FROM	TO		SUMMARY LOG DESCRIPTION
0.0	4.0		CASING
4.0	170.67		FELSIC GNEISS COMPLEX 2ab (1a, 5c)
170.67	182.0		MAFIC AMPHIBOLITE 1a,b (2a)
	182.0		END OF HOLE
			Contractor: Bradley Brothers Diamond Drilling Limited, Timmins, Ontario.
			Core is being stored at camp on Gervais Property southeast of Oba, Ontario.

Richard Kenny

FALCONBRIDGE NICKEL MINES LIMITED

DIAMOND DRILL RECORD

LOCATION L12+50E; 0+95S DIRECTION AZ 360° DIP -50° HOLE No. GO-49

LOGGED BY Bruce Miller CASING 4.0m SHEET No. 1

STARTED April 5, 1985 CORE SIZE BQ CORRECTED TESTS 4.5m-48.4°, 35m-45.7°

FINISHED April 8, 1985 65m-45°, 92m-48.0°, 125m-45.5°, 155m-42°, 182m-38.7°

PROPERTY Gervais Option, Oba, Ontario PN 508

FROM	TO		DESCRIPTION
0.0	4.0		CASING
4.0	170.67		FELSIC GNEISS COMPLEX 2ab (1a, 5c)

Coarse grained medium grey foliated granodiorite gneiss which is in transitional contact with fine grained medium grey foliated felsic metavolcanics. The felsic metavolcanics are in contact with fine grained massive and layered mafic amphibolites at 170.67m down hole.

The upper portion of the felsic gneisses is cut by occasional hairline quartz-calcite veinlets and there are two zones (4.0m and 49.5m) each only 10 cm wide with reddish hematite/alkali alterations. These may be due to its proximity to a fault about 40m to the west of the hole.

Clear to cloudy white gash quartz veins are present throughout the hole and may or may not contain muscovite clots and/or pyrite clots. These veins are both concordant and discordant and are probably of two separate ages. Discordant veins usually are accompanied by muscovite and pyrite clots while concordant veins contain fine pyrite disseminations.

Biotite in the coarse and medium grained gneisses is replaced by sericite in the fine grained metatuffs.

Coarse grained white and pink pegmatite dykes are up to seven meters in core section and crosscut foliation.

Pyrite mineralization ranges from nil in the coarse grained gneisses to nil to trace in the medium grained gneisses to

FALCONBRIDGE NICKEL MINES LIMITED

DIAMOND DRILL RECORD

LOCATION_____ DIRECTION_____ DIP_____ HOLE No. G0-49

LOGGED BY_____ CASING_____ SHEET No. 2

STARTED_____ CORE SIZE_____ CORRECTED TESTS_____

FINISHED_____

PROPERTY_____

FROM	TO		DESCRIPTION
			trace and occasional ½% fine disseminations in the fine grained metavolcanics. Pyrite is the only sulphide present.
			Fine grained and aphanitic felsic bands/sills are present at irregular intervals throughout the felsic section. These have variable widths and are generally non-mineralized. Sericite is abundant in these bands within the felsic metavolcanics.
			6.0 - 138.5 Coarse grained medium grey felsic gneiss with occasional medium grained phases, random clear to cloudy gash quartz veins, nil pyrite and minor fine grained and aphanitic felsic bands
			4.8 - 5.2 Fine grained medium grey felsic band
			6.8 - 9.27 Fine grained medium grey felsic band
			9.27 - 9.40 Aphanitic felsic band
			10.87 - 11.15 Fine grained medium grey felsic band
			11.15 - 11.27 Aphanitic felsic band
			11.27 - 11.45 Fine to medium grained medium grey felsic band
			11.94 - 11.99 Coarse grained pink pegmatite vein
			14.08 - 14.36 Coarse grained pink pegmatite vein
			14.75 - 17.0 Coarse grained pink pegmatite vein
			24.35 - 24.58 Fine grained medium grey felsic band
			26.6 - 26.86 Fine grained medium grey felsic band - weakly porphyritic
			32.34 - 32.43 Fine grained medium grey felsic band

FALCONBRIDGE NICKEL MINES LIMITED

DIAMOND DRILL RECORD

LOCATION_____ DIRECTION_____ DIP_____ HOLE No. G0-49

LOGGED BY_____ CASING_____ SHEET No. 3

STARTED_____ CORE SIZE_____ CORRECTED TESTS_____

FINISHED_____

PROPERTY_____

FROM	TO		DESCRIPTION
			32.48 - 32.57 Aphanitic felsic band
			35.36 - 35.45 Fine grained weakly porphyritic felsic band
			38.35 - 38.9 Aphanitic felsic band
			39.0 - 39.32 Aphanitic felsic band
			40.2 - 40.25 Hematite altered quartz vein - nil pyrite
			41.96 - 42.25 Fine grained dark grey intermediate band
			43.32 - 43.46 Fine grained dark grey felsic to intermediate band
			43.53 - 43.73 Fine grained dark grey felsic to intermediate band
			43.86 - 43.96 Fine grained medium grey felsic band
			44.08 - 44.34 Fine grained dark grey intermediate band
			44.55 - 44.66 Fine grained medium grey felsic band
			46.24 - 46.31 Silicified mafic amphibolite band
			46.6 - 46.71 Hematite altered quartz vein
			46.91 - 47.07 Fine grained/aphanitic medium grey felsic band
			49.5 - 49.58 Hematite-epidote altered quartz-calcite veinlets
			50.9 - 51.43 Fine grained silicified mafic amphibolite band
			51.92 - 52.12 Fine grained medium grey weakly porphyritic felsic band
			54.84 - 55.39 Fine grained medium grey weakly porphyritic felsic band

FALCONBRIDGE NICKEL MINES LIMITED

DIAMOND DRILL RECORD

LOCATION_____ DIRECTION_____ DIP_____ HOLE No. G0-49

LOGGED BY_____ CASING_____ SHEET No. 4

STARTED_____ CORE SIZE_____ CORRECTED TESTS_____

FINISHED_____

PROPERTY_____

FROM	TO		DESCRIPTION
			55.49 - 55.98 Fine grained medium grey weakly porphyritic felsic band
			55.80 - 55.86 Silicified mafic amphibolite band
			56.06 - 56.27 Fine grained moderately porphyritic felsic to intermediate band
			56.82 - 57.12 Fine grained medium grey felsic band
			58.12 - 58.27 Fine grained dark grey intermediate band
			62.82 - 63.08 Fine grained medium grey felsic band
			63.33 - 63.42 Silicified amphibolite band
			63.52 - 63.92 Fine to medium grained dark grey amphibolite band
			63.92 - 64.62 Aphanitic felsic band
			67.0 - 68.05 Aphanitic felsic band
			70.44 - 70.8 Fine grained dark grey weakly porphyritic intermediate band
			70.99 - 71.02 Coarse grained pink pegmatite dyke
			72.93 - 73.17 Aphanitic felsic band
			77.78 - 78.49 Coarse grained white pegmatite dyke
			80.03 - 81.18 Fine to medium grained intermediate band
			84.5 - 85.3 Coarse grained white pegmatite dyke
			85.42 - 85.55 Fine grained dark grey intermediate band
			85.71 - 85.94 Fine grained dark grey intermediate band
			87.12 - 87.65 Coarse grained white pegmatite dyke
			91.46 - 92.13 Fine to medium grained felsic gneiss

FALCONBRIDGE NICKEL MINES LIMITED

DIAMOND DRILL RECORD

LOCATION_____ DIRECTION_____ DIP_____ HOLE No. G0-49

LOGGED BY_____ CASING_____ SHEET No. 5

STARTED_____ CORE SIZE_____ CORRECTED TESTS_____

FINISHED_____

PROPERTY_____

FROM	TO		DESCRIPTION
			104.95 - 105.89 Fine to medium grained porphyritic felsic band
			110.11 - 110.25 Fine grained dark grey intermediate band
			115.71 - 115.77 Coarse grained white pegmatite dyke
			115.98 - 116.01 Coarse grained white pegmatite dyke
			116.24 - 116.54 Chloritic mafic amphibolite band
			116.62 - 123.06 Pinkish-white coarse grained pegmatite dyke
			123.06 - 123.77 Fine to medium grained medium grey felsic gneiss
			124.17 - 124.34 Fine grained medium grey felsic band
			129.16 - 129.43 Aphanitic felsic band
			132.73 - 133.01 Fine to medium grained medium grey felsic gneiss
			134.1 - 134.34 Fine to medium grained medium grey felsic gneiss
			134.34 - 134.4 Coarse grained white pegmatite dyke
			136.03 - 136.64 Fine grained medium grey felsic band
			138.5 - 138.75 Fine grained dark grey felsic to intermediate band
			138.76 - 139.53 Aphanitic felsic band
			139.53 - 170.67 Fine grained medium grey felsic metatuffs with occasional medium grained transition, nil to trace to ½% pyrite, coarse grained pyrite clots, weak to moderate to strong sericite alteration and occasional silicified mafic amphibolite

FALCONBRIDGE NICKEL MINES LIMITED

DIAMOND DRILL RECORD

LOCATION_____ DIRECTION_____ DIP_____ HOLE No. GO-49

LOGGED BY_____ CASING_____ SHEET No. 6

STARTED_____ CORE SIZE_____ CORRECTED TESTS_____

FINISHED_____

PROPERTY_____

FROM	TO		DESCRIPTION
			bands.
			141.3 - 141.46 Aphanitic felsic band
			142.25 - 142.41 Chloritic mafic amphibolite band
			143.61 - 143.75 Clear gash quartz vein - c.g. pyrite clots
			147.81 - 148.27 Aphanitic felsic band
			160.58 - 160.61 Fine grained chloritic mafic amphibolite band
			161.61 - 161.84 Fine grained medium grey felsic band
			162.36 - 163.29 Fine grained medium to light grey felsic band
170.67	182.0		MAFIC AMPHIBOLITE 1a, b (2a)
			Fine grained dark green interlayered layered and massive mafic amphibolites with occasional fine grained felsic metavolcanic bands, and clear concordant gash quartz veins.
			Hairline cross-cutting quartz-calcite veinlets are present but not abundant.
			Brown biotite/chlorite wisps are concordant and may or may not be mineralized with pyrite and/or pyrrhotite.
			171.13 - 171.34 Aphanitic felsic band
			171.34 - 172.05 Interlayered fine grained mafic and felsic metavolcanic bands
			172.43 - 172.48 Fine grained felsic metavolcanic band
			176.45 - 176.48 Fine grained felsic metavolcanic band
			177.03 - 177.08 Aphanitic felsic band

FALCONBRIDGE NICKEL MINES LIMITED

DIAMOND DRILL RECORD

LOCATION_____ DIRECTION_____ DIP_____ HOLE No. G0-49

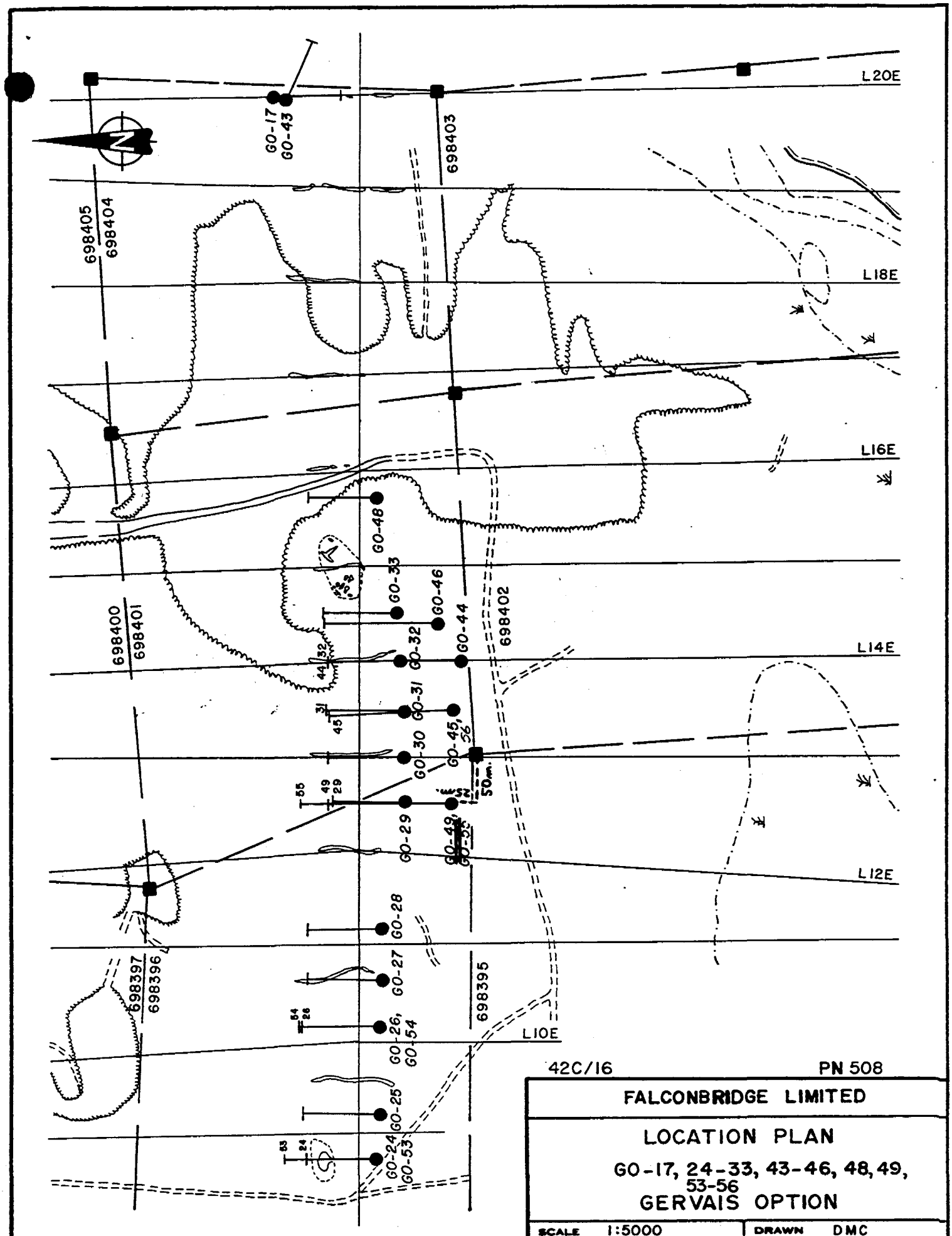
LOGGED BY_____ CASING_____ SHEET No. 7

STARTED_____ CORE SIZE_____ CORRECTED TESTS_____

FINISHED_____

PROPERTY_____

FROM	TO		DESCRIPTION
			177.15 - 177.63 Fine grained felsic metavolcanic band
			177.97 - 178.3 Fine grained felsic metavolcanic band
			180.21 - 180.39 Fine grained felsic metavolcanic band
	182.0		END OF HOLE
			Contractor: Bradley Brothers Diamond Drilling Limited, Timmins, Ontario.
			Core is being stored at camp on Gervais Property southeast of Oba, Ontario.



42C/16 PN 508

FALCONBRIDGE LIMITED

LOCATION PLAN

GO-17, 24-33, 43-46, 48, 49, 53-56
GERVAIS OPTION

SCALE	1:5000	DRAWN	DMC
DATE	MAY 1985	DATA BY	

REVISED: MAR. 1986

Richard Kenny

FALCONBRIDGE NICKEL MINES LIMITED

DIAMOND DRILL RECORD

LOCATION L27+00 0+00 DIRECTION AZ 360° DIP -45° HOLE No. GO-50

LOGGED BY Bruce Miller CASING 7.5m SHEET No. 1

STARTED April 9, 1985 CORE SIZE BQ CORRECTED TESTS 8m-43°, 38m-41.8°,

FINISHED April 13, 1985 68m-41°, 78m-39°, 98m-38.2°

PROPERTY Gervais Option, Oba, Ontario PN 508

FROM	TO		SUMMARY LOG DESCRIPTION
0.0	7.5		CASING
7.5	103.02		FELSIC GNEISS COMPLEX 2a, b (1a, 5c)
103.02	106.8		MAFIC AMPHIBOLITE 1a (2a, b)
106.8	111.0		FELSIC METAVOLCANICS 2ab (1a)
111.0	114.0		MAFIC AMPHIBOLITE 1a, b (2a)
	114.0		END OF HOLE
			Contractor: Bradley Brothers Diamond Drilling Limited, Timmins, Ontario.
			Core is being stored at camp on Gervais Property southeast of Oba, Ontario.

Richard Kenny

FALCONBRIDGE NICKEL MINES LIMITED

DIAMOND DRILL RECORD

LOCATION L27+00 0+00 DIRECTION AZ 360° DIP -45° HOLE No. GO-50

LOGGED BY Bruce Miller CASING 7.5m SHEET No. 1

STARTED April 9, 1985 CORE SIZE BQ CORRECTED TESTS 8m-43°, 38m-41.8°,

FINISHED April 13, 1985 68m-41°, 78m-39°, 98m-38.2°

PROPERTY Gervais Option, Oba, Ontario PN 508

FROM	TO		DESCRIPTION
0.0	7.5		CASING
7.5	103.02		FELSIC GNEISS COMPLEX 2a, b (1a, 5c)

Coarse grained medium grey felsic gneiss which progressively becomes finer grained down hole to the mafic amphibolite contact at 103.02. An assimilation? contact between felsic gneisses and fine grained sericitic felsic metatuffs? lies between 75.0 and 87.0 m down hole. Coarsening of the felsic metatuffs? and bands of fine grained felsic to intermediate composition make a contact between the two lithologies impossible to place.

Throughout the felsic section bands/sills? of fine grained felsic and intermediate composition are concordant and erratic.

Coarse grained white pegmatite dykes are erratic and discordant.

Clear to cloudy gash quartz veins are both concordant and discordant and are more likely to contain fine to coarse disseminations and clots of pyrite within the fine grained felsic metatuffs and up to 20 meters into the felsic gneisses (uphole).

Biotite within the coarse gneisses alters to sericite within the felsic metatuffs.

Pyrite occurs mostly as fine disseminations with greater accumulations along hairline concordant fractures. Coarse grained gneisses contain nil pyrite, medium grained gneisses contain nil to trace with local ½% disseminations and fine grained felsic metatuffs generally contain trace ½% pyrite.

FALCONBRIDGE NICKEL MINES LIMITED

DIAMOND DRILL RECORD

LOCATION_____ DIRECTION_____ DIP_____ HOLE No. G0-50

LOGGED BY_____ CASING_____ SHEET No. 2

STARTED_____ CORE SIZE_____ CORRECTED TESTS_____

FINISHED_____

PROPERTY_____

FROM	TO		DESCRIPTION
			7.5 - 66.0 Coarse grained medium grey felsic gneiss with occasional weakly porphyritic phases and medium grained transitions. Fine grained felsic to intermediate and mafic bands are irregular. Erratic clear to cloudy gash quartz veins are both discordant and concordant and may contain coarse grained muscovite and/or pyrite clots. 11.04 - 11.44 Fine grained dark grey intermediate band 13.3 - 13.6 Fine to medium grained moderately porphyritic felsic band 13.6 - 13.71 Fine grained dark grey intermediate band 13.76 - 13.87 Fine to medium grained weakly porphyritic felsic band 16.72 - 16.99 Fine to medium grained medium grey felsic band 17.35 - 17.41 Fine grained dark grey intermediate band 17.61 - 17.72 Fine grained medium grey felsic band 21.9 - 22.2 Silicified, saussuritized alkali rich fractured zone with 1 cm wide pistachio green, alkalic fracture filling. Related to a local fault system. 24.38 - 24.69 Fine grained medium grey felsic band 25.25 - 25.34 Silicified muscovite rich zone, 4 cm clear gash quartz vein 28.0 - 28.12 Fine grained medium grey felsic band 31.97 - 32.03 Fine grained medium grey felsic band

FALCONBRIDGE NICKEL MINES LIMITED

DIAMOND DRILL RECORD

LOCATION_____ DIRECTION_____ DIP_____ HOLE No. GO-50

LOGGED BY_____ CASING_____ SHEET No. 3

STARTED_____ CORE SIZE_____ CORRECTED TESTS_____

FINISHED_____

PROPERTY_____

FROM	TO		DESCRIPTION
			45.55 - 45.72 Fine grained medium grey felsic band 45.9 - 46.0 Fine grained dark grey intermediate band 48.37 - 48.68 Fine grained medium grey felsic to intermediate band 49.52 - 49.55 Aphanitic felsic band 52.24 - 52.28 Fine grained dark grey felsic to intermediate band 52.49 - 52.62 Fine grained dark grey felsic to intermediate band 52.64 - 52.71 Fine grained dark grey felsic to intermediate band 53.73 - 53.95 Silicified coarse grained felsic gneiss-white 56.13 - 56.4 Silicified coarse grained felsic gneiss-white 56.56 - 57.03 Silicified coarse grained felsic gneiss-white 63.05 - 63.09 Fine grained dark grey intermediate band 63.14 - 63.31 Fine grained medium grey felsic to intermediate band 63.31 - 63.5 Fine grained mafic amphibolite band 63.54 - 63.59 Fine grained mafic amphibolite band 66.0 - 84.7 Medium grained medium grey felsic gneiss with occasional gash quartz veins, nil to trace to local ½% hairline and disseminated pyrite. Quartz-calcite veinlets contain epidote mineralization and are fault derived (although no fault is evident in the area).

FALCONBRIDGE NICKEL MINES LIMITED

DIAMOND DRILL RECORD

LOCATION_____ DIRECTION_____ DIP_____ HOLE No. GO-50

LOGGED BY_____ CASING_____ SHEET No. 4

STARTED_____ CORE SIZE_____ CORRECTED TESTS_____

FINISHED_____

PROPERTY_____

FROM	TO		DESCRIPTION
			75.87 - 75.95 Coarse grained white pegmatite dyke
			76.89 - 77.31 Coarse grained white pegmatite dyke
			77.43 - 77.66 Fine grained medium grey felsic band
			77.71 - 77.94 Fine grained medium grey felsic band
			78.22 - 78.78 Fine grained medium grey felsic band
			78.92 - 79.11 Clear gash quartz vein - non-mineralized
			79.21 - 80.67 Fine grained medium grey felsic band
			81.1 - 84.24 Coarse grained white pegmatite dyke
			82.28 - 82.38 Fine grained/aphanitic felsic band
			82.42 - 82.54 Aphanitic felsic band
			84.66 - 84.7 Coarse grained white pegmatite dyke
			84.7 - 86.82 Fine grained medium to dark grey felsic to intermediate band
			84.84 - 85.17 Coarse grained white pegmatite dyke
			85.17 - 103.02 Fine grained light to medium grey sericitic felsic metavolcanics. Nil to trace to ½% disseminated pyrite and clear concordant quartz veins.
			88.08 - 88.42 Aphanitic felsic band
			88.42 - 88.68 Fine grained silicified mafic amphibolite band
			95.67 - 96.42 Aphanitic felsic band
			99.26 - 99.4 Aphanitic felsic band
			101.24 - 101.33 Aphanitic felsic band
			101.41 - 101.54 Aphanitic felsic band

FALCONBRIDGE NICKEL MINES LIMITED

DIAMOND DRILL RECORD

LOCATION_____ DIRECTION_____ DIP_____ HOLE No. G0-50

LOGGED BY_____ CASING_____ SHEET No. 5

STARTED_____ CORE SIZE_____ CORRECTED TESTS_____

FINISHED_____

PROPERTY_____

FROM	TO		DESCRIPTION
			102.67 - 102.81 Aphanitic felsic band
103.02	106.8		MAFIC AMPHIBOLITE 1a (2a, b)
			Fine grained layered mafic amphibolite band with interlayered felsic metatuff beds?. Pyrite mineralization is minimal with only occsional fine disseminations.
			White quartz calcite veinlets are abundant between 104.9 and 105.6 as concordant and discordant veins.
			Chlorite alteration accompanies amphibolite facies metamorphism.
			104.33 - 104.43 Fine grained felsic metatuff bed?
106.8	111.0		FELSIC METAVOLCANICS 2ab (1a)
			Fine grained medium grey felsic metavolcanics with interlayered/interbedded? mafic amphibolite bands.
			Pyrite mineralization ranges from nil to trace to ½% disseminations.
			Sericite alteration is moderate to strong.
			107.04 - 107.1 Mafic amphibolite band
			107.42 - 107.62 Aphanitic felsic band
			107.9 - 107.98 Aphanitic felsic band
			108.85 - 108.96 Aphanitic felsic band
			108.96 - 109.17 Fine grained layered amphibolite band
			109.73 - 109.92 Fine grained medium grey, felsic band
			110.18 - 110.27 Aphanitic felsic band
			110.32 - 110.42 Fine grained layered amphibolite band

FALCONBRIDGE NICKEL MINES LIMITED

DIAMOND DRILL RECORD

LOCATION_____ DIRECTION_____ DIP_____ HOLE No. G0-50

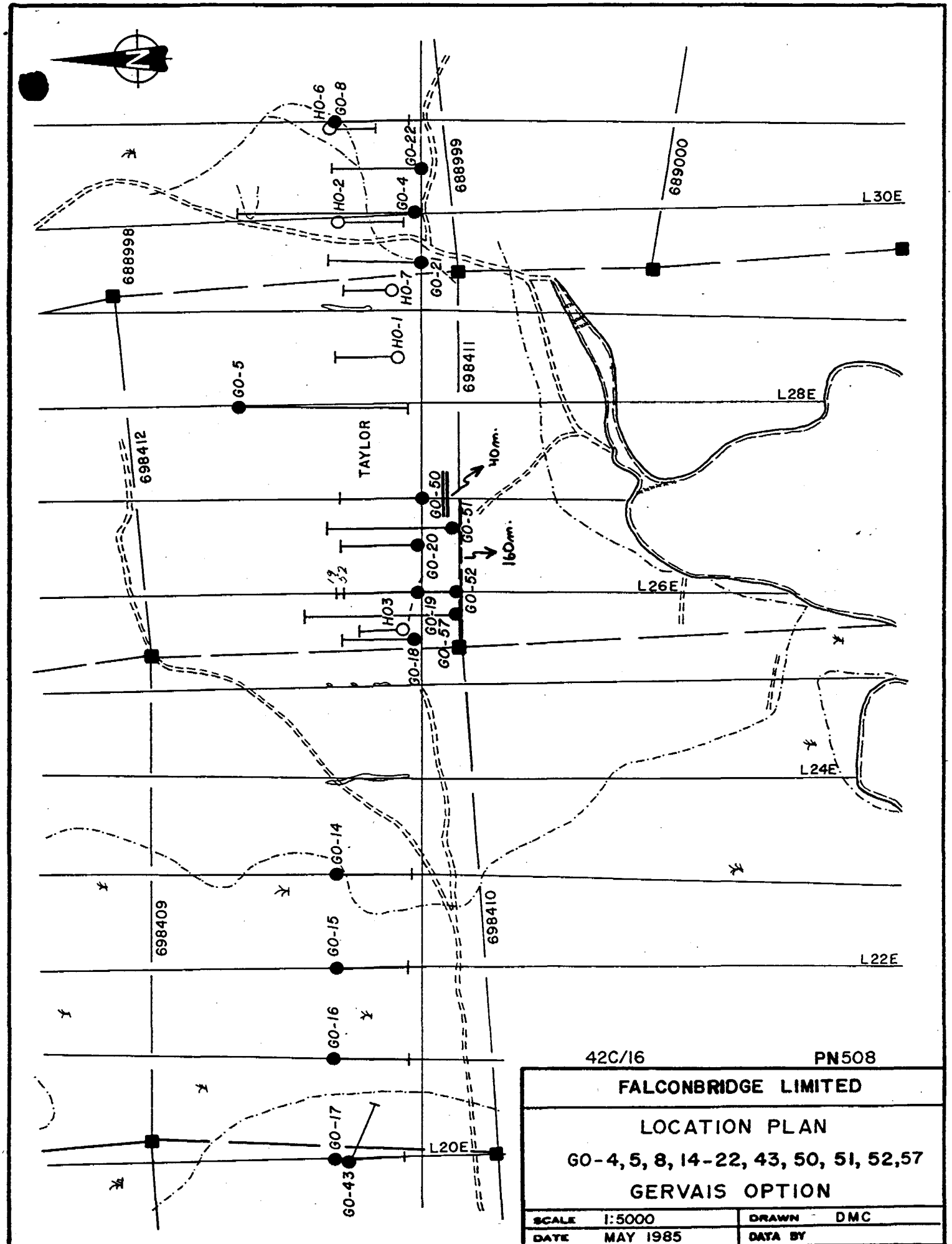
LOGGED BY_____ CASING_____ SHEET No. 6

STARTED_____ CORE SIZE_____ CORRECTED TESTS_____

FINISHED_____

PROPERTY_____

FROM	TO		DESCRIPTION
			110.49 - 110.7 Fine grained layered amphibolite band
111.0	114.0		MAFIC AMPHIBOLITE 1a, b (2a)
			Fine grained interlayered massive and layered mafic amphibolite with random concordant and discordant gash quartz veins.
			Pyrite and pyrrhotite mineralization occur as fine disseminations with one coarse grained pyrrhotite clot associated with a quartz-muscovite vein.
			There are no felsic metatuff bands in this section.
			111.15 - 111.8 Massive mafic amphibolite band
	114.0		END OF HOLE
			Contractor: Bradley Brothers Diamond Drilling Limited, Timmins, Ontario.
			Core is being stored at camp on Gervais Property southeast of Oba, Ontario.



42C/16 PN508

FALCONBRIDGE LIMITED

LOCATION PLAN

GO-4, 5, 8, 14-22, 43, 50, 51, 52, 57

GERVAIS OPTION

SCALE 1:5000	DRAWN DMC
DATE MAY 1985	DATA BY

REVISED: MAR. 1986

Richard Kenny

FALCONBRIDGE NICKEL MINES LIMITED

DIAMOND DRILL RECORD

LOCATION L26+68E; 0+30S DIRECTION AZ 360° DIP -50° HOLE No. GO-51

LOGGED BY Bruce Miller CASING 6.0m SHEET No. 1

STARTED April 13, 1985 CORE SIZE BQ CORRECTED TESTS 6m-49.5°, 38m-48°,

FINISHED April 16, 1985 68m-46°, 98m-45°, 128m-44.0°, 155m-43.5°,

PROPERTY Gervais Option, Oba, Ontario PN 508 185m-43°

FROM	TO		SUMMARY LOG DESCRIPTION
0.0	6.0		CASING
6.0	175.1		FELSIC GNEISS COMPLEX 2ab (1a)
175.1	185.0		MAFIC AMPHIBOLITE 1ab (2a)
	185.0		END OF HOLE

Contractor: Bradley Brothers Diamond Drilling Limited, Timmins, Ontario.

Core is being stored at camp on Gervais Property southeast of Oba, Ontario.

Richard Kenny

FALCONBRIDGE NICKEL MINES LIMITED

DIAMOND DRILL RECORD

LOCATION L26+68E; 0+30S DIRECTION AZ 360° DIP -50° HOLE No. GO-51

LOGGED BY Bruce Miller CASING 6.0m SHEET No. 1

STARTED April 13, 1985 CORE SIZE BQ CORRECTED TESTS 6m-49.5°, 38m-48°,

FINISHED April 16, 1985 68m-46°, 98m-45°, 128m-44°, 155m-43.5°, 185m-43°

PROPERTY Gervais Option, Oba, Ontario PN 508

FROM	TO		DESCRIPTION
0.0	6.0		CASING
6.0	175.1		FELSIC GNEISS COMPLEX 2ab (1a)

Coarse grained medium grey foliated granodiorite gneisses are in gradational contact with fine grained medium grey felsic metavolcanics. The fine grained felsic metavolcanics are in contact with layered mafic amphibolite at 175.1 meters down hole.

The coarse grained gneisses have occasional medium grained transitions as well as fine grained felsic to mafic sills at irregular intervals.

Pyrite mineralization is not present in the coarse grained gneisses apart from occasional coarse grained clots and hair-line fracture coatings usually associated with gash quartz veins. Pyrite disseminations are present in nil to trace amounts in the medium grained gneisses and trace to ½% in the fine grained felsic metavolcanics. The fine grained and aphanitic felsic sills are generally non-mineralized but occasional fine disseminations are present.

Sericite replaces biotite in the fine grained metavolcanics which is the only alteration present. Mafic amphibolite bands within the felsic gneisses are occasionally sheared to chlorite schist.

6.0 - 105.0 Coarse grained medium grey foliated grano-diorite gneiss with occasional clear to cloudy gash quartz

FALCONBRIDGE NICKEL MINES LIMITED

DIAMOND DRILL RECORD

LOCATION_____ DIRECTION_____ DIP_____ HOLE No. GO-51

LOGGED BY_____ CASING_____ SHEET No. 2

STARTED_____ CORE SIZE_____ CORRECTED TESTS_____

FINISHED_____

PROPERTY_____

FROM	TO		DESCRIPTION
			veins (both concordant and discordant), fine grained medium grey felsic bands, aphanitic felsic bands and fine grained mafic amphibolite bands. Medium grained transitions are common and no substantial pyrite mineralization is present.
			5.9 - 6.06 Fine grained medium grey felsic band
			6.32 - 6.38 Aphanitic felsic band
			6.42 - 6.48 Fine grained medium grey felsic band
			6.82 - 7.16 Aphanitic/fine grained felsic band
			7.49 - 8.24 Fine grained medium grey felsic band
			8.24 - 8.40 Fine grained mafic amphibolite band - chloritic
			9.43 - 9.65 Fine grained medium grey felsic band
			9.9 - 10.0 Fine grained medium grey felsic band
			11.97 - 12.18 Fine grained medium grey felsic band
			13.82 - 14.04 Fine grained medium grey felsic band
			15.16 - 15.45 Fine grained medium grey felsic band weakly porphyritic
			17.7 - 17.8 Fine grained medium grey felsic band
			18.3 - 19.35 Fine grained medium grey felsic band
			19.8 - 19.91 Fine grained medium grey felsic band - weakly porphyritic
			20.17 - 20.57 Fine grained light grey felsic band
			20.71 - 20.79 Clear gash quartz vein
			20.84 - 20.98 Fine grained medium grey felsic band
			21.0 - 21.47 Fine grained medium grey felsic band

FALCONBRIDGE NICKEL MINES LIMITED

DIAMOND DRILL RECORD

LOCATION_____ DIRECTION_____ DIP_____ HOLE No. G0-51

LOGGED BY_____ CASING_____ SHEET No. 3

STARTED_____ CORE SIZE_____ CORRECTED TESTS_____

FINISHED_____

PROPERTY_____

FROM	TO		DESCRIPTION
			21.57 - 23.35 Fine grained medium grey felsic band
			24.74 - 26.08 Fine grained medium grey felsic band
			26.24 - 26.38 Fine grained medium grey felsic band - weakly porphyritic in part
			27.88 - 27.04 Clear gash quartz vein
			28.84 - 28.54 Fine grained/aphanitic medium grey felsic band
			35.2 - 35.44 Fine grained medium grey moderately porphyritic felsic band
			36.88 - 36.98 Fine grained medium grey felsic band
			39.52 - 39.57 Fine grained mafic amphibolite band
			39.83 - 39.88 Aphanitic felsic band
			41.74 - 41.83 Fine grained dark grey intermediate band
			42.29 - 42.6 Chlorite schist - trace pyrite
			48.37 - 48.95 Fine grained medium grey felsic band
			50.0 - 50.54 Fine grained medium grey felsic band
			50.62 - 50.83 Clear gash quartz vein
			50.83 - 51.0 Aphanitic felsic band
			53.95 - 54.05 Fine grained medium grey felsic band
			54.29 - 54.34 Amphibolite band-fine grained
			54.34 - 54.87 Fine grained medium grey felsic band
			56.37 - 56.46 Fine grained dark grey intermediate band
			71.44 - 71.80 Fine grained medium grey felsic band
			72.31 - 72.75 Medium grained feldspar porphyry

FALCONBRIDGE NICKEL MINES LIMITED

DIAMOND DRILL RECORD

LOCATION_____ DIRECTION_____ DIP_____ HOLE No. G0-51

LOGGED BY_____ CASING_____ SHEET No. 4

STARTED_____ CORE SIZE_____ CORRECTED TESTS_____

FINISHED_____

PROPERTY_____

FROM	TO		DESCRIPTION
			76.44 - 77.12 Fine grained medium grey felsic band
			77.34 - 77.42 Fine grained medium grey felsic band
			78.01 - 78.09 Fine grained medium grey felsic band
			85.25 - 85.48 Fine grained medium grey felsic band
			88.67 - 88.83 Fine grained medium grey felsic band
			92.94 - 93.1 Fine grained dark grey felsic to intermediate band
			101.49 - 101.68 Fine grained dark green silicified mafic amphibolite band
			105.0 - 164.9 Medium grained medium grey felsic gneisses with fine grained felsic and mafic amphibolite sills, clear to cloudy gash quartz veins, nil to occasional trace pyrite, and weakly porphyritic phases.
			107.66 - 107.81 Fine grained medium grey felsic band
			109.4 - 109.6 Fine grained medium grey felsic band
			115.12 - 115.5 Coarse grained pinkish white pegmatite dyke
			121.24 - 121.89 Coarse grained pinkish white pegmatite dyke
			124.3 - 124.75 Fine grained medium grey felsic band
			124.75 - 126.0 Coarse grained pinkish white pegmatite dyke
			134.0 - 134.1 Silicified medium grained felsic gneiss
			134.1 - 134.3 Fine grained medium grey felsic band
			134.3 - 134.7 Fine grained mafic amphibolite band
			138.14 - 138.45 Fine grained medium grey felsic band
			138.65 - 138.7 Silicified fine grained mafic amphibolite band
			138.79 - 138.85 Silicified fine grained mafic amphibolite

FALCONBRIDGE NICKEL MINES LIMITED

DIAMOND DRILL RECORD

LOCATION_____ DIRECTION_____ DIP_____ HOLE No. GO-51

LOGGED BY_____ CASING_____ SHEET No. 5

STARTED_____ CORE SIZE_____ CORRECTED TESTS_____

FINISHED_____

PROPERTY_____

FROM	TO		DESCRIPTION
			band
			164.9 - 175.1 Fine grained medium grey moderately to strongly sericitic felsic metavolcanics with nil to trace to local ½% pyrite, random clear to cloudy gash quartz veins and occasional hairline quartz calcite veinlets.
			148.64 - 149.0 Fine grained medium grey felsic band
			153.1 - 153.43 Fine grained medium grey felsic band
			153.53 - 153.77 Fine grained dark grey felsic to intermediate band
			153.92 - 154.06 Fine grained medium grey felsic band
			154.43 - 154.73 Fine grained medium grey felsic band
			158.17 - 158.31 Fine grained silicified mafic amphibolite band
			158.73 - 158.74 Massive pyrite seam
			158.79 - 160.39 Fine grained medium grey felsic band
			160.39 - 160.63 Aphanitic felsic band
			160.63 - 160.7 Fine grained medium grey felsic band
			161.1 - 161.59 Aphanitic felsic band
			162.3 - 162.38 Aphanitic felsic band
			165.33 - 165.4 Fine grained dark grey intermediate band
			167.69 - 168.15 Aphanitic felsic band
			168.15 -168.39 Fine grained/aphanitic medium grey felsic band
			173.52 - 173.61 Aphanitic felsic band
			174.9 - 175.06 Aphanitic felsic band

FALCONBRIDGE NICKEL MINES LIMITED

DIAMOND DRILL RECORD

LOCATION_____ DIRECTION_____ DIP_____ HOLE No. GO-51

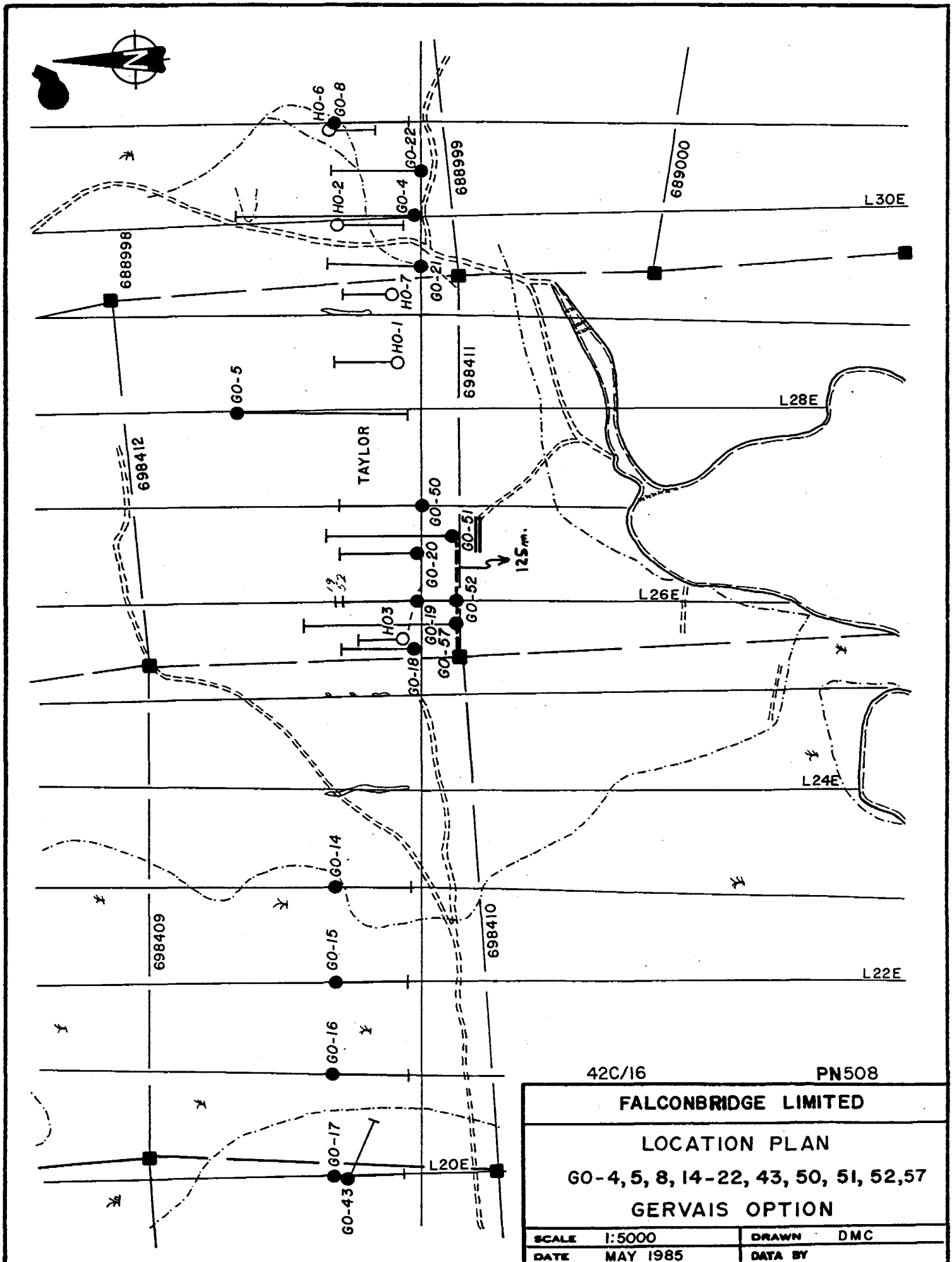
LOGGED BY_____ CASING_____ SHEET No. 6

STARTED_____ CORE SIZE_____ CORRECTED TESTS_____

FINISHED_____

PROPERTY_____

FROM	TO		DESCRIPTION
175.1	185.0		MAFIC AMPHIBOLITE lab (2a) Fine grained dark green layered and massive mafic amphibolite interlayered with sills/bands of fine grained felsic metavolcanics. Included are clear to white concordant quartz-veins and discordant hairline quartz-calcite veinlets. Narrow felsic wisps are chlorite rich and distinguish the layered amphibolites from the more massive amphibolites. Hairline pyrite is rare and represents the only mineralization. 175.29 - 175.33 Fine grained medium grey felsic metavolcanics 176.29 - 179.02 Fine grained interlayered felsic and mafic metavolcanics 179.02 - 179.6 Fine grained medium grey felsic metavolcanics 180.02 - 180.27 Fine grained medium grey felsic metavolcanics
	185.0		END OF HOLE Contractor: Bradley Brothers Diamond Drilling Limited, Timmins, Ontario. Core is being stored at camp on Gervais Property southeast of Oba, Ontario.



42C/16 PN508

FALCONBRIDGE LIMITED

LOCATION PLAN

GO-4, 5, 8, 14-22, 43, 50, 51, 52, 57

GERVAIS OPTION

SCALE	1:5000	DRAWN	DMC
DATE	MAY 1985	DATA BY	

REVISED: MAR. 1986

Richard Kenning

Ministry of Natural Resources
Ontario

Report of Work

#1061

The Minin

42C16NE8224 16 HAWKINS

900

Name and Postal Address of Recorded Holder

Falconbridge Limited | A 21647

40th Floor, Commerce Court West, Toronto, Ontario M5L 1B4

Summary of Work Performance and Distribution of Credits

Total Work Days Cr. claimed: 6,016.7

for Performance of the following work. (Check one only)

- [ ] Manual Work
- [ ] Shaft Sinking Drifting or other Lateral Work.
- [ ] Compressed Air, other Power driven or mechanical equip.
- [ ] Power Stripping
- [X] Diamond or other Core drilling
- [ ] Land Survey

Mining Claim Prefix	Mining Claim Number	Work Days Cr.	Mining Claim Prefix	Mining Claim Number	Work Days Cr.	Mining Claim Prefix	Mining Claim Number	Work Days Cr.
	see attached Schedule 'A'							

All the work was performed on Mining Claim(s): P698385, P698388, P698396, P698401, P698404, P698409, P698412, P758693

Required Information eg: type of equipment, Names, Addresses, etc. (See Table Below)

Drill Contractor: Bradley Bros, Limited
P.O. Box 2367
Noranda, Quebec
J9X 5A9

PORCUPINE MINING DIVISION
RECEIVED
MAR 25 1986

RECORDED
MAR 25 1986

ONTARIO GEOLOGICAL SURVEY
ASSESSMENT FILES
RESEARCH OFFICE
APR 14 1986
RECEIVED

Drill Holes Submitted:

GO-39	112.8m	GO-47	153.0m
GO-40	150.0m	GO-48	107.0m
GO-41	85.0m	GO-49	182.0m
GO-42	113.0m	GO-50	114.0m
GO-43	89.0m	GO-51	185.0m
GO-44	176.0m		
GO-45	191.12m		
GO-46	176.0m		

Total length of holes: 1,833.9 metres or 6,016.7 ft.
See attached logs for diameter of core, angle of holes, dates drilled, etc.

Date of Report	Recorded Holder or Agent (Signature)
March 21, 1986	Richard Kenny (agent)

Certification Verifying Report of Work

I hereby certify that I have a personal and intimate knowledge of the facts set forth in the Report of Work annexed hereto, having performed the work or witnessed same during and/or after its completion and the annexed report is true.

Name and Postal Address of Person Certifying

Richard L. Kenny

100-3074 Portage Ave. Wpg., Man. R3K 0Y2

Date Certified	Certified by (Signature)
March 21, 1986	Richard Kenny (agent)

Table of Information/Attachments Required by the Mining Recorder

Type of Work	Specific information per type	Other information (Common to 2 or more types)	Attachments
Manual Work	Nil	Names and addresses of men who performed manual work/operated equipment, together with dates and hours of employment.	Work Sketch: these are required to show the location and extent of work in relation to the nearest claim post.
Shaft Sinking, Drifting or other Lateral Work			
Compressed air, other power driven or mechanical equip.	Type of equipment		
Power Stripping	Type of equipment and amount expended. Note: Proof of actual cost must be submitted within 30 days of recording.	Names and addresses of owner or operator together with dates when drilling/stripping done.	
Diamond or other core drilling	Signed core log showing; footage, diameter of core, number and angles of holes.		Work Sketch (as above) in duplicate
Land Survey	Name and address of Ontario land surveyor.	Nil	Nil

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FALCONBRIDGE LIMITED

SCHEDULE 'A'

DISTRIBUTION OF WORK CREDITS

Mining Claim Prefix	Number	Work Days Credit
P	686901	40
	686902	40
	686903	37.6
	686904	37.6
	686905	38.6
	686906	40
	686907	40
	686908	40
	686909	40
	686910	38.6
	686911	37.6
	686912	37.6
	686913	40
	686914	40
	686915	40
	686916	40
	686917	37.6
	686918	37.6
	686919	40
	686920	40
	686921	40
	686922	19
	686923	40
	686924	40
	686925	40
	686926	37.6
	686927	37.6
	700136	17.6
	700137	17.6
	700138	40
	700139	40
	700140	40
	700141	40
	700142	17.6
	700143	17.6
	700144	17.6
	700145	17.6
	700146	40
	700147	40
	700148	40
	700149	40
	700150	18.6
	700151	17.6
	700152	18.6
	700153	18.6
	700154	40
	700155	40

Mining Claim Prefix	Number	Work Days Credit
P	686928	40
	686929	40
	686930	37.6
	686931	37.6
	686932	40
	686933	40
	686934	40
	686935	17.6
	686936	17.6
	686937	40
	686938	40
	686939	38.6
	686940	37.6
	686941	37.6
	686942	40
	700124	40
	700125	18.6
	700126	17.6
	700127	18.6
	700128	18.6
	700129	17.6
	700130	18.6
	700131	40
	700132	40
	700133	18.6
	700134	17.6
	700135	17.6
	700412	37.6
	700413	38.6
	700414	38.6
	700415	37.6
	700416	38.6
	700417	40
	700418	40
	700419	40
	700420	38.6
	700421	37.6
	700422	37.6
	700423	38.6
	700424	40
	700425	40
	700426	40
	700427	37.6
	700428	37.6
	700429	40
	700430	40
	700431	40

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FALCONBRIDGE LIMITED

SCHEDULE 'A'

DISTRIBUTION OF WORK CREDITS

Mining Claim Prefix	Number	Work Days Credit
P	700405	40
	700406	40
	700407	40
	700408	40
	700409	40
	700410	40
	700411	40
	700441	40
	700444	40
	700455	40
	700456	40
	700457	40
	700458	40
	700459	40
	700460	38.6
	700461	38.6
	700462	38.6
	700463	40
	700464	40
	700465	38.6
	700466	38.6
	700467	38.6
	700468	40
	700469	40
	700470	40
	700471	40
	700472	40
	700473	40
	700474	40
	700475	40
	700476	40
	700477	40
	700478	38.6

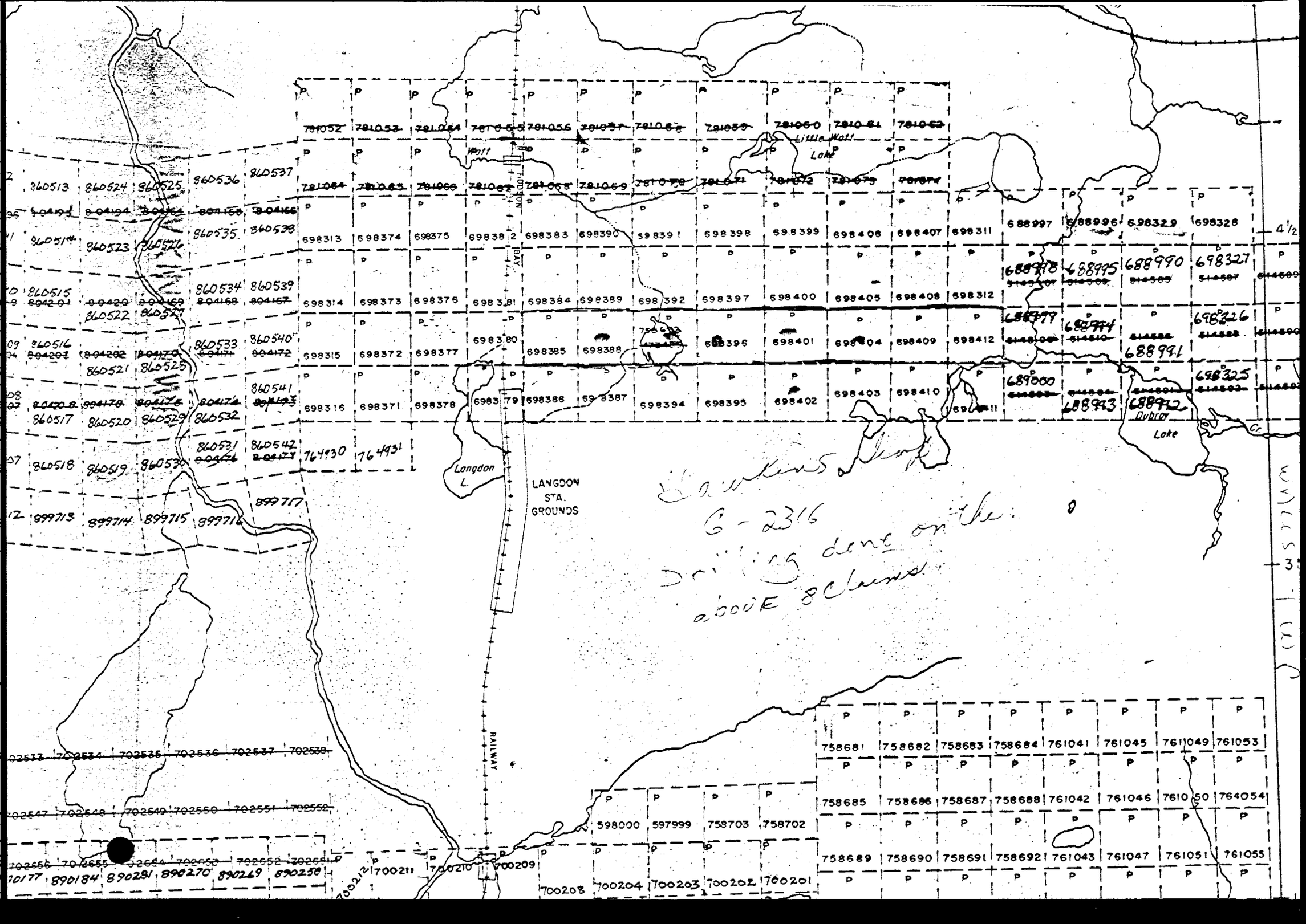
Mining Claim Prefix	Number	Work Days Credit
P	700432	40
	700433	40
	700434	40
	700437	40
	700438	40
	700439	39.7
	700440	40
	700479	38.6
	700480	38.6
	700481	40
	700482	40
	700483	38.6
	700484	38.6
	700485	38.6
	700486	40
	700487	40
	700488	40
	700489	40
	700490	40
	700491	40
	700492	40
	700493	40
	700494	40
	700495	40
	700496	38.6
	700497	37.6
	700498	38.6
	700499	40
	700500	38.6
	700501	37.6
	700502	38.6
	700503	40
	700504	40

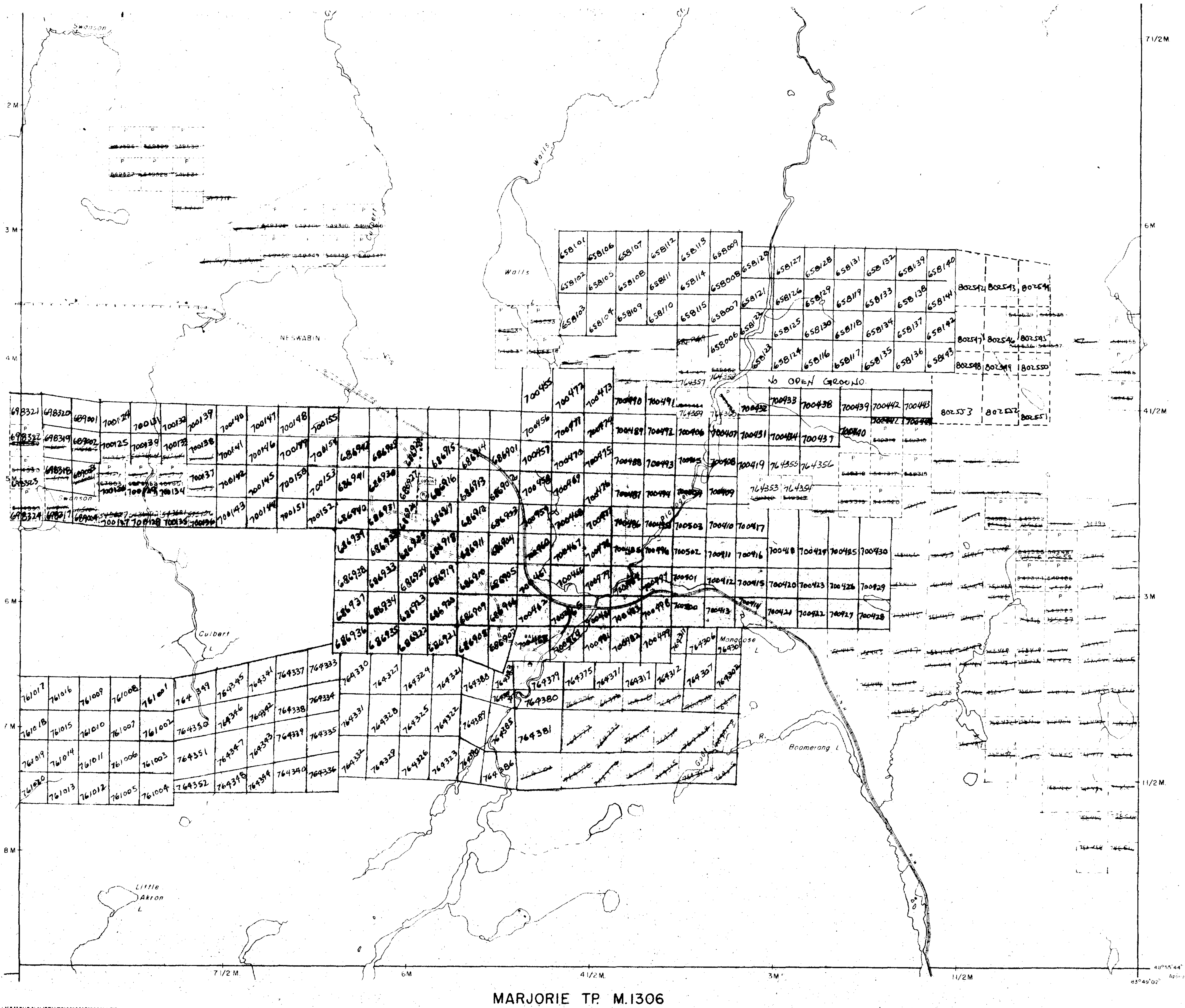
Total = 5,834.7 days

Total work days credit claimed: 6,016.7 days
Total work days applied: 5,834.7 days

Total days retained for future consideration: 182.0

160 claims.


Watt
Little Watt Lake
TODD TON BAY
Langdon L.
LANGDON STA. GROUNDS
RAILWAY
Dublin Lake
Hawkins
G-2316
Drilling done on the above 8 claims



LEGEND

HIGHWAY AND ROUTE No.
OTHER ROADS
TRAILS
SURVEYED LINES
TOWNSHIPS, BASE LINES ETC.
LOTS, MINING CLAIMS, PARCELS, ETC.
UNSURVEYED LINES
LOT LINES
PARCEL BOUNDARY
MINING CLAIMS ETC.
RAILWAY AND RIGHT OF WAY
UTILITY LINES
NON PERENNIAL STREAM
FLOODING OR FLOODING RIGHTS
SUBDIVISION
ORIGINAL SHORELINE
MARSH OR MUSKEG
MINES

DISPOSITION OF CROWN LANDS

TYPE OF DOCUMENT	SYMBOL
PATENT, SURFACE & MINING RIGHTS	●
SURFACE RIGHTS ONLY	◐
MINING RIGHTS ONLY	◑
LEASE, SURFACE & MINING RIGHTS	■
SURFACE RIGHTS ONLY	◧
MINING RIGHTS ONLY	◨
LICENCE OF OCCUPATION	▼
CROWN LAND SALE	CS
ORDER-IN-COUNCIL	OC
RESERVATION	(R)
CANCELLED	(X)
SAND & GRAVEL	(S)

SCALE: 1 INCH = 40 CHAINS

ACRES	HECTARES
40	16

TOWNSHIP

WALLS

DISTRICT
ALGOMA

MINING DIVISION
PORCUPINE

Rec. Feb. 11/80

Ministry of Natural Resources
Ontario Surveys and Mapping Branch

Date: MARCH 2, 1973
Plan No.: M.1366

WHITNEY BLOCK
QUEEN'S PARK, TORONTO

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