

DIAMOND



42A10NW0551 24 DUNDONALD

010

TOWNSHIP: DUNDONALD

REPORT NO: 24

WORK PERFORMED FOR: FALCONBRIDGE LTD

RECORDED HOLDER: SAME AS ABOVE

: OTHER

<u>CLAIM NO.</u>	<u>HOLE NO.</u>	<u>FOOTAGE</u>	<u>DATE</u>	<u>NOTE</u>
71005	DUN25-32	227 m	OCT/91	(1)

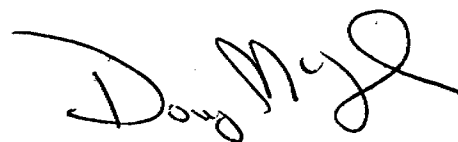
NOTES:

(1) W9260.00144, FILED NOVEMBER/92.

**ASSESSMENT REPORT FOR
DIAMOND DRILLING PROGRAM FOR
FALCONBRIDGE LIMITED MINING CLAIMS
P1127896,P1127895,P1133283 and L71005
DUNDONALD TOWNSHIP
N.T.S. 42A/10
FALCONBRIDGE LIMITED - TIMMINS, ONTARIO**

A.D. McLaughlin

October 19, 1992

A handwritten signature in black ink, appearing to read "A.D. McLaughlin", is written in a cursive style below the printed name.



42A10NW0551 24 DUNDONALD

010C

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1. INTRODUCTION

Falconbridge Limited completed a diamond drill program over Mining lease claim L71005 in Dundonald Township in the Porcupine Mining Division between October 25 and October 31, 1991. One drill hole, totalling 227.0 metres was drilled. Total eligible assessment costs of the work was \$15,016. This work is to be credited to the specified contiguous mining claims, as indicated in the attached Report of Work Conducted After Recording Claim, with the remainder banked in reserve.

All drill data are compiled in Figures 3, and in Appendix A. The work was supervised by A.D. McLaughlin, also author of this report.

2. LOCATION AND ACCESS

The property is located 60 road kilometres northeast of Timmins and 25 road kilometres northeast of the Falconbridge Limited Metallurgical Site (Figure 1). The main block of claims, is located in the southeast corner of Dundonald Township. Access to the property is via a 2.6 kilometre all season gravel road which connects to Highway 67 approximately 5.0 kilometres northeast of MacIntosh Springs. Old logging and drilling roads provide easy access throughout the property.

3. TOPOGRAPHY and VEGETATION

Mixed forests of deciduous and coniferous trees with alders and brush in low lying areas cover much of the area, with small lakes and beaver ponds found throughout. In the northeastern part of the property, logged in the last 40 years, alders and immature jack pine trees predominate.

4. PROPERTY and MINING CLAIMS

Falconbridge Limited holds a variety of leased claims, patent lots and staked claims in this township. All are 100 % owned by Falconbridge Limited. Covered in this report are three mining claims and one mining leased claim as presented in Figure 2 and listed in Table I with the work performed on individual claims. The company address is:

Falconbridge Limited
P.O. Box 1140
571 Moneta Ave
Timmins, Ontario M5J 2V4

TABLE I

DIAMOND DRILL PROGRAM ON TEN CONTIGUOUS

FALCONBRIDGE LIMITED LEASE and MINING CLAIMS in DUNDONALD
TOWNSHIP

CLAIM #	DRILL HOLE	METERS	ASSESS. CREDITS
L71005	DUN25-32	227.00	\$15,016
P1127896	-	---	-----
P1127895	-	---	-----
P1133283	-	---	-----
TOTAL 4 Claims	1	227.00	\$15,016

5. PREVIOUS WORK

Falconbridge Limited has held and explored the property since 1960. Work consisted of geological mapping, MAG and EM geophysical surveys, along with diamond drilling.

6. GEOLOGY

The property is underlain by intermediate feldspar crystal ash to lapilli tuff interlayered with massive to pillowed mafic volcanics. Overlying these are komatiite volcanics, possibly up to 700 metres thick. Above the komatiites are mafic volcanics.

Intruding the intermediate volcanics is the Dundonald tholeiitic mafic sill. It is differentiated and crudely layered with a dunite to peridotite core grading outward into a discontinuous pyroxene phase followed by an outer gabbro rim.

7. DIAMOND DRILL PROGRAM

With little volcanic rock exposure on the property a variety of geophysical surveys were completed over the property. From this work, diamond drilling tested the komatiite stratigraphy and underlying mafic to intermediate volcanic footwall. One drill hole is presented here.

DUN25-32

This drill hole was drilled on the mining lease claim L71005 (Figure 4) between October 25 and 31, 1991 by Norex Drilling Inc., using NQ core size. Total depth was 227 metres. Figure 3A presents a drill hole cross section.

After drilling through 16.00 metres of overburden, 163.00 metres of komatiite volcanic flows were intersected to a depth of 179.10 metres. A series of pyroxenite to peridotite flows up to thirty-five metres thick were found with minor disseminated pyrrhotite. Below the komatiite section a massive pyrrhotite lens, 0.40 metres thick, occurs containing trace disseminated pentlandite at the top and minor chalcopyrite throughout. Argillite is common between the individual flows. Below 90.00 metres drill depth, thicker peridotite to dunite flows occur. Underlying the komatiites are massive to pillow mafic volcanics, continuing to the end of the drill hole.

The komatiites show variable serpentinization with local weak chloritization. The mafic volcanics are bleached and silicified. Trace amounts of disseminated to fracture controlled pyrrhotite occurs in the komatiites, locally with up to 2% concentrated at the base of flows. In the mafic volcanics, minor pyrrhotite is present within the weakly chloritized rocks.

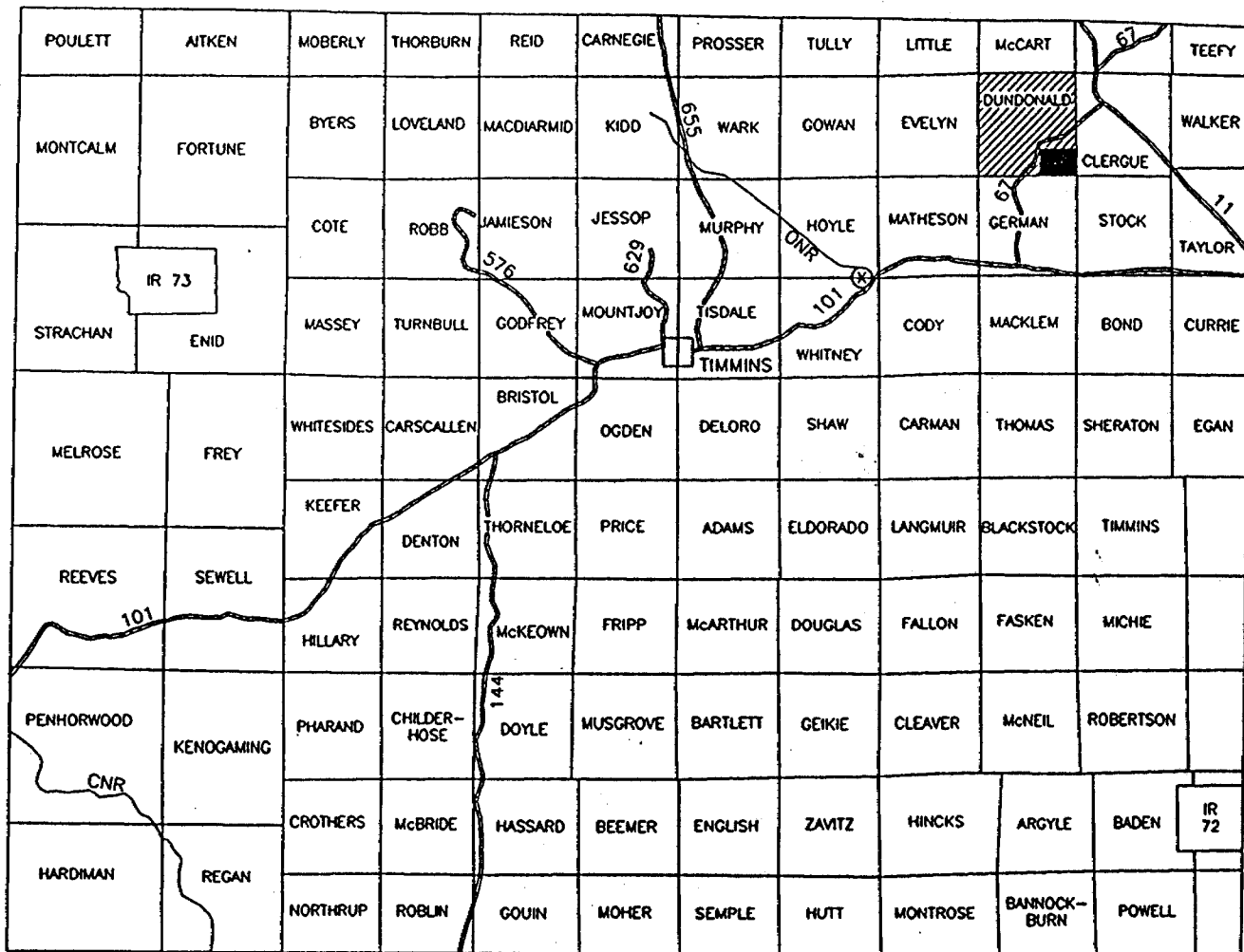
8. SUMMARY AND CONCLUSIONS

No significant mineralization was detected in the drill hole.

9. REFERENCES

Code, P.R., (1979), Nickel Sulphide Deposits Associated with Ultramafic Rocks of the Abitibi Belt and Economic Potential of Mafic - Ultramafic Intrusions, Ontario Geological Survey, Study 20.

Leshner, C.M. and Groves, D.I. (1984), Geochemical and Mineralogical Criteria for the Identification of Mineralized Komatiites in Archean Greenstone Belts in Australia. Proceedings of the 27th International Geological Congress, Vol. 9, pp. 283-302.



LEGEND



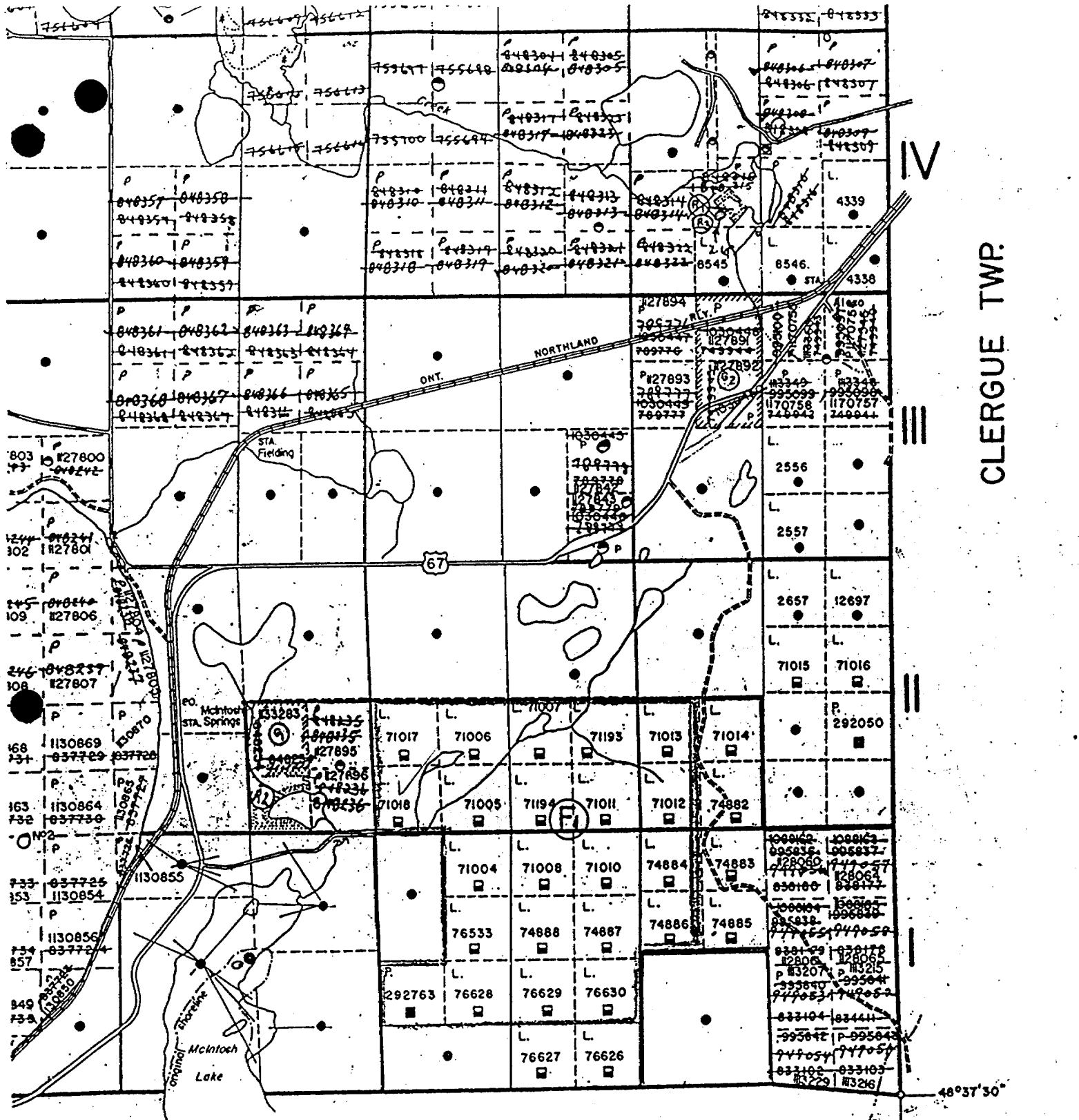
FALCONBRIDGE LTD
(KIDD CREEK) METSITE



DUNDONALD PROJECT



<p>FALCONBRIDGE LIMITED Exploration Division Timmins ONTARIO</p>			
<p>DUNDONALD PROJECT LOCATION MAP</p>			
TRACED: P.C.W.	DATE: 09/90	MTS: 42A/10	PROJECT: 8186
DRAWN: D.Mc/L.L.	DATE: 02/92	MAP No: DUNLOC-5	FILE:
SUPERVISED: S.C.	DATE: 02/92	<p>FIGURE 1</p>	
REVISED:	DATE:		



MAN TWP.



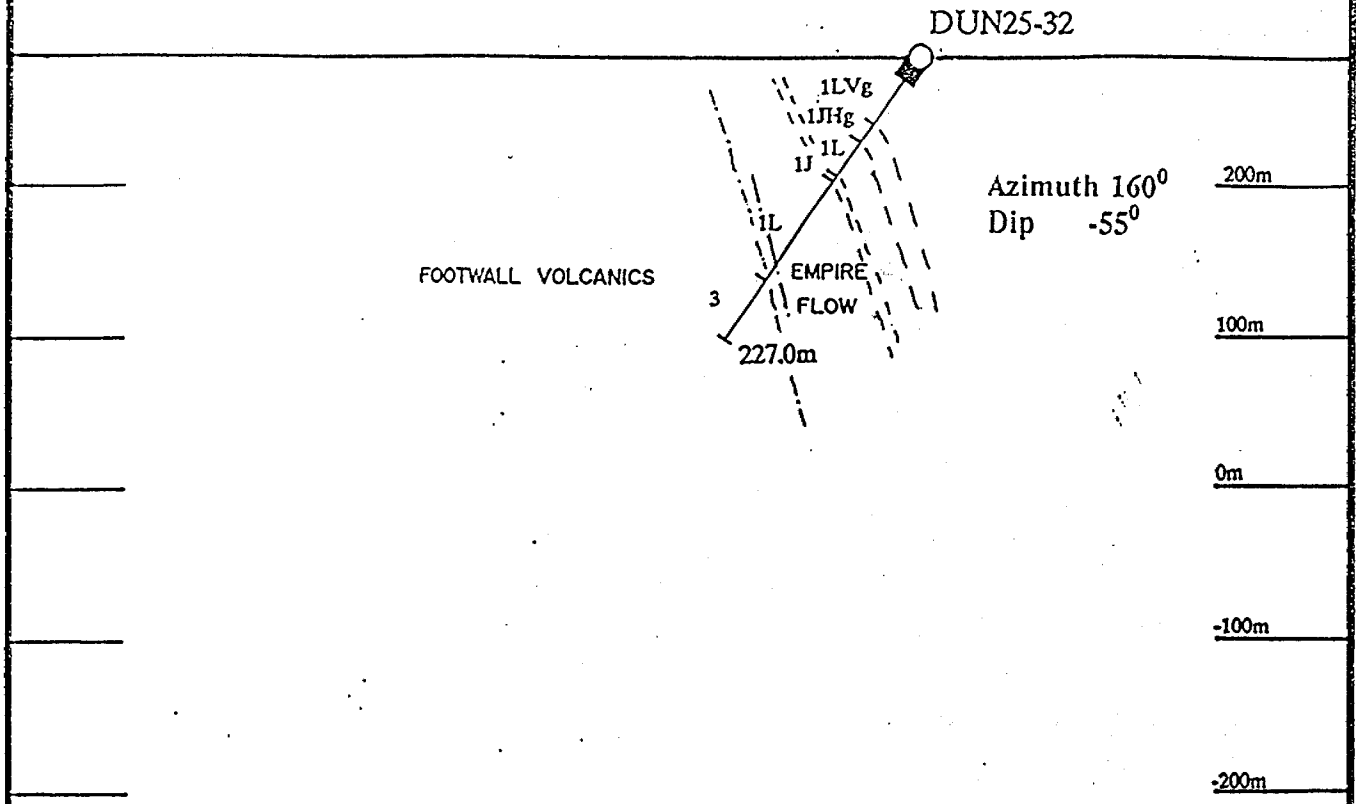
FALCONBRIDGE LIMITED

PROPERTY MAP - DUNDONALD TOWNSHIP

Figure 2 Claims covered in this report

1 inch = 40 CHAINS

Drill Hole Located on Lease Claim L71005

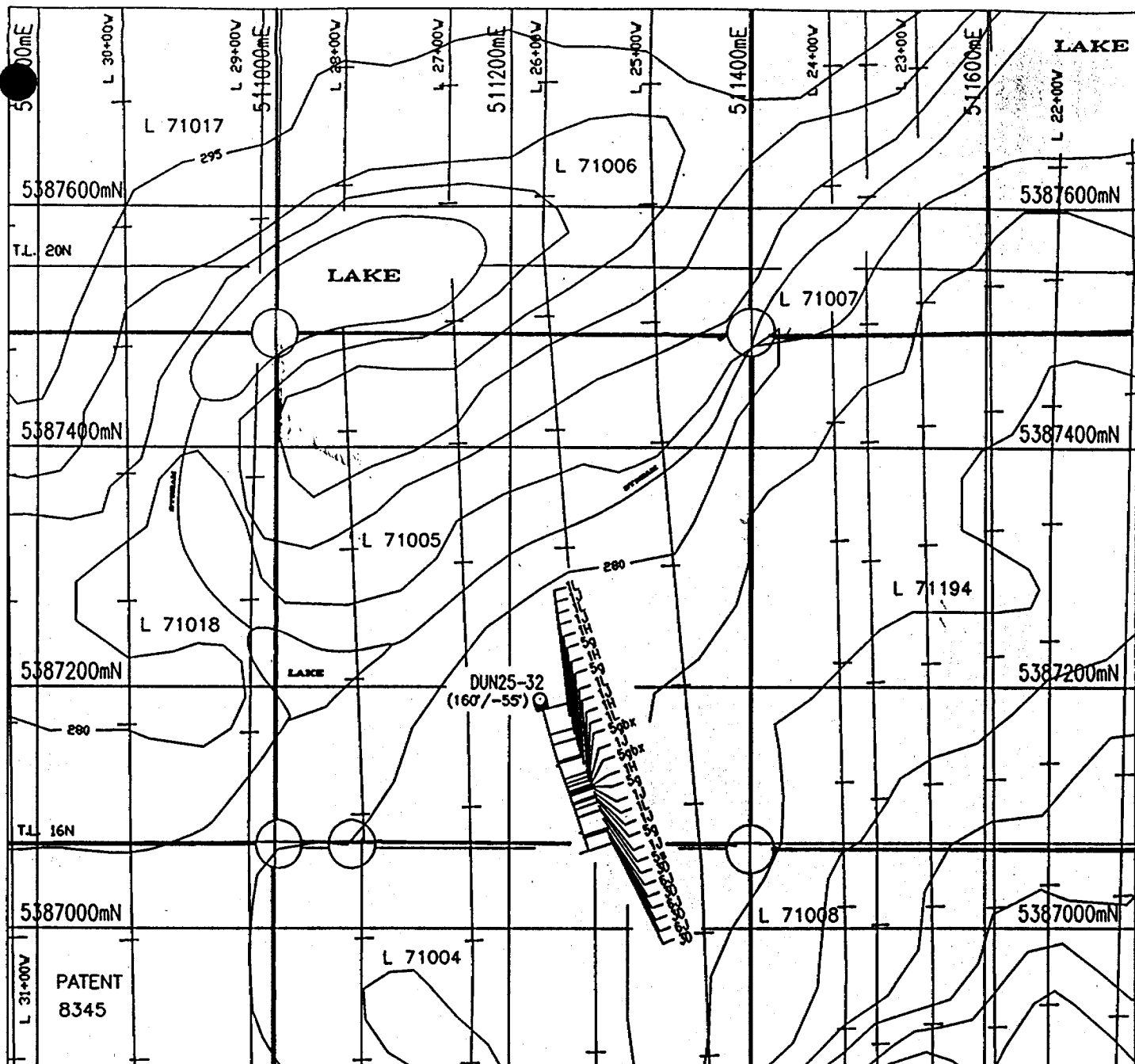


LEGEND

- 1L PERIDOTITIC KOMATIITE
- 1J PYROXENITIC KOMATIITE
- 1H KOMATIITIC BASALT
- 3 INTERMEDIATE VOLCANICS
- g GRAPHITIC INTERFLOW SEDIMENT
- V SPINIFEX

FALCONBRIDGE LIMITED		
Exploration Division		Timmins, ONTARIO
 DIAMOND DRILL SECTION DUN25-32 Looking 250°		
SCALE: 1 : 5 000	Data: Davis	
Drawn: del	Project N°:	Date:

FIGURE 3



LEGEND

Geology

MAJOR ROCK DIVISIONS

- 10 DIABASE
- 9 FELSIC INTRUSIVE ROCKS
- 8 INTERMEDIATE INTRUSIVE ROCKS
- 7 MAFIC INTRUSIVE ROCKS
- 6 ULTRAMAFIC INTRUSIVE ROCKS
- 5 SEDIMENTARY ROCKS
- 4 FELSIC VOLCANIC ROCKS
- 3 INTERMEDIATE VOLCANIC ROCKS
- 2 MAFIC VOLCANIC ROCKS
- 1 ULTRAMAFIC VOLCANIC ROCKS

TEXTURAL/GEOCHEMICAL MODIFIERS

- A Fine Grained
- B Medium Grained
- C Coarse Grained
- D Quartz-Feldspar Pyritic
- E Amphibolite/Vesicular
- F Primary Fragments
- G Graphitic/Amphibolite
- H Tholeiitic
- I Alkali
- J Calc-Alkali
- K Komatiitic
- L Flow
- M Massive
- N Variscitic/Spherulitic
- O Fibrous
- P Quartz Pyritic
- Q Oxide Iron Formation
- R Sphalides, Chalcopyrite
- S Pyroclastic
- T High Mn
- U High Fe
- V High Al
- W Andesitic
- X Islanditic
- Y Primitive (<20°)
- Z Evolved (>20°)
- A Heterolithic
- B Feldspar Pyritic
- C Chert
- D Wacke
- E Leucocrane Bearing
- F Basaltic Komatiite
- G Pyromarkite
- H Not Textured
- I Peridotite
- J Dunite
- K Olivine
- L Olivine Spinel
- M Olivine Spinel/Cresomulite
- N Adomulite
- O Mesocumulite
- P Orthocumulite
- Q Polystarred
- R Fractured
- S Gabbroic Textured
- T Pyroxene Spinel
- U Olivine Spinel
- V Sphalide/Cresomulite
- W Adomulite
- X Mesocumulite
- Y Orthocumulite

ALTERATION MODIFIERS

- (A) Abolition
- (B) Beachoid
- (C) Carbonaceous
- (D) Carbonatization
- (E) Chloritization
- (F) Epithermal
- (G) Hematization
- (H) Paleosol Alteration
- (I) Sericitization
- (J) Silicification
- (K) Saponification
- (L) Talc-Carbonaceous

ASTRONOMIC



BEET GRADING AND MARKING SEE '1'

FALCONBRIDGE LIMITED

Exploration Division Timmins, ONTARIO

DUNDONALD PROJECT (DUNDEAL ZONE)

DIAMOND DRILL PLAN (GEOLOGY)

DUNDONALD Twp.

Traced : <i>ARDES</i>	<i>15/10/91</i>	NTS : <i>12-A/10</i>	PROJECT No: <i>8106N</i>
Drawn : <i>d e l</i>	<i>15/10/91</i>	MAP No:	FILE: <i>8106 EN</i>
Supervised : <i>D McLoughlin</i>	<i>11/10/91</i>	Scale : 1 : 5000 (metres)	
Revised :		0 50 100 150 200	

FIGURE 4

APPENDIX A
CERTIFIED ABSTRACTS OF MINING LEASES

App. to Amend
347292, reg'd
15/09/86.

M. J. Hoodson
D.L.R.

Under Mining Lease 100799, dated 29th September, 1965, filed in the Office of Land Titles at Cochrane, as Lease 226 Cochrane, on the 15th November, 1965, being an Indenture of Lease made between Her Majesty the Queen, represented by the Deputy Minister of Mines, the Lessor of the First part and FALCONBRIDGE LIMITED ~~Falconbridge Nickel Mines Limited~~, with its head office at Toronto, Ontario, (7 King Street East), Lessee of the Second part.

The said Falconbridge Nickel Mines Limited, is entitled subject to the terms and conditions of said lease to an estate for the term of Twenty-One (21) years to be computed from the 1st October, 1965, with the right of renewal as therein set out of that certain parcel of land, situate in the Township of Dundonald, in the District of Cochrane and Province of Ontario, namely:

The Mines, Ores, Minerals and Mining Rights in, upon and under the South Half of Lot Number Four (4), in the Second Concession, of the said Township of Dundonald, being Mining Claims L.71005, L.71006, L.71017 and L.71018, containing by admeasurement One Hundred and Sixty-Nine (169) Acres, more or less.

The Title to the said land is subject to the provisions of Section 106 of The Mining Act of Ontario, requiring that all ores or minerals raised or removed therefrom shall be treated and refined within Canada and that in default thereof the said land shall revert to Her Majesty.

The Title of the said owner is subject to the following:

- (1) Any provincial and municipal taxes, charges, rates or assessments and school and water rates which may be owing on said land.
- (2) No surface mining operations shall be carried on within 150 feet of the limits of any highway or road maintained by the Department of Highways except with the consent in writing of the Minister of Mines, as provided in the Mining Act.
- (3) The terms, conditions and reservations of said lease.
- (4) The exceptions and qualifications mentioned in The Land Titles Act.

In Witness whereof I have hereunto subscribed my name, this 15th day of November, 1965.
No Office Copy of Lease Issued
Office Copy of Lease Issued 17/1/66.

M. J. Hoodson
Deputy Local Master of Titles.

renewal of Lease

By Lease 1131 Cochrane, dated 24th November, 1985, registered 23rd January, 1987, being Mining Lease 100799 Cochrane, of the Ministry of Natural Resources, the above Mining Lease 226 Cochrane, of the said Ministry of Northern Development and Mines was renewed to a further term of 21 years from the 1st day of October, 1986.

Certified to be a true copy of the 1 pages

of parcel 213 LC.

Dated at Cochrane, Ontario, this Oct. 14, 1992
at 10:00 AM

LAND REGISTRAR.

P. J. Thompson

M. J. Hoodson
D.L.R.

APPENDIX B
DIAMOND DRILL LOG

HOLE NUMBER: DUN25-32

FALCONBRIDGE LIMITED
DRILL HOLE RECORD

DATE: 10/15/1992
IMPERIAL UNITS: METRIC UNITS: X

PROJECT NAME: 8186
PROJECT NUMBER: 008186
CLAIM NUMBER: 671005
LOCATION: DUNDONALD TWP

PLOTTING COORDS GRID: UTM
NORTH: 5387010.00N
EAST: 511225.00E
ELEV: 280.00

ALTERNATE COORDS GRID: LINE
NORTH: 16+80N
EAST: 26+40W
ELEV: 280.00

COLLAR DIP: -55°
LENGTH OF THE HOLE: 227.00M
START DEPTH: 0.00M
FINAL DEPTH: 227.00M

COLLAR ASTRONOMIC AZIMUTH: 160° 0' 0"

GRID ASTRONOMIC AZIMUTH: 160° 0' 0"

DATE STARTED: 10/25/1991
DATE COMPLETED: 10/31/1991
DATE LOGGED: 11/08/1991

COLLAR SURVEY: NO
RQD LOG: NO
HOLE MAKES WATER: NO

PULSE EM SURVEY: NO
PLUGGED: YES
HOLE SIZE: NO

CONTRACTOR: NOREX
CASING: 16.0m left in ground.
CORE STORAGE: METSITE
UTM COORD.:

COMMENTS :
WEDGES AT:

DIRECTIONAL DATA:

Depth (M)	Astronomic Azimuth	Dip degrees	Type of Test	FLAG	Comments	Depth (M)	Astronomic Azimuth	Dip degrees	Type of Test	FLAG	Comments
30.00	172° 0' 0"	-56° 0' 0"	S	OK	
90.00	161° 0' 0"	-55° 0' 0"	S	OK	
150.00	158° 0' 0"	-54° 0' 0"	S	OK	
220.00	163° 0' 0"	-53°30' 0"	S	OK	
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HOLE NUMBER: DUN25-32

DRILL HOLE RECORD

LOGGED BY: P. DAVIS

PAGE: 1

D. McLAUGHLIN

FROM TO	ROCK TYPE	TEXTURE AND STRUCTURE	ANGLE TO CA	ALTERATION	MINERALIZATION	REMARKS
0.00 TO 16.00	OVERBURDEN «{ob}»					
16.00 TO 54.35	PERIDOTITIC KOMATIITE «1L»	<p>{16.0-26.5}{«1YX»</p> <ul style="list-style-type: none"> -dark green colour. -fine grained, mesocumulate and adcumulate. -70-90% serpentinized olivine grains. -crosscutting lizardite veins. -moderately magnetic. -1-2% leucoxene grains. <p>{26.5-33.25}{«1HZY»</p> <ul style="list-style-type: none"> -medium grey-green colour. -fine grained, mesocumulate to orthocumulate. -weakly polysutured. -several crosscutting black serpentine veins. -50-70% serpentinized olivine grains. -32.85-33.25m -olivine grains become skeletal in nature. -becomes finer grained downhole. -lower contact sharp with flow top of underlying flow. <p>{33.25-38.10}{«SPIN}»</p> <ul style="list-style-type: none"> -33.25-33.55m -fine grained to medium grained skeletal olivine spinifex. -33.55-33.80m -medium grained acicular pyroxene spinifex. -33.80-38.10m -fine grained to coarse grained bladed and skeletal olivine spinifex. <p>{38.10-38.70}{«1ZY»</p> <ul style="list-style-type: none"> -dark green-grey colour. -fine grained orthocumulate and mesocumulate. -30-60% serpentinized olivine grains. -weakly polysutured with several crosscutting serpentine veins. -olivine content increases downhole to mesocumulate. -weakly magnetic. <p>{38.70-54.0}{«1YX»</p> <ul style="list-style-type: none"> -dark green to dark grey-green colour. -fine grained to medium grained, mesocumulate and adcumulate. -70-90% serpentinized olivine grains. -intercalated mesocumulate and adcumulate textures. -weakly polysutured. 		<p>«mod sp» -moderate serpentine alteration.</p> <p>«mod sp» -weak to moderate serpentine alteration.</p> <p>-weak serpentine alteration.</p> <p>«mod sp» -weak to moderate serpentine alteration.</p> <p>«mod sp» -moderate serpentine alteration.</p>		-20.0-23.0m -WR AN00970.

FROM TO	ROCK TYPE	TEXTURE AND STRUCTURE	ANGLE TO CA	ALTERATION	MINERALIZATION	REMARKS
54.35 TO 69.95	PYROXENITIC KOMATIITE «1J»	<ul style="list-style-type: none"> -sparse crosscutting serpentine veins. -moderately magnetic. {47.08-47.35}«1W» -coarse grained spinifex and crescumulate. {54.0-54.35}«1Z» -light green and dark green colours. -fine grained, orthocumulate. -30-50% serpentinized olivine grains. -crosscutting serpentine veins. -becomes finer grained downhole. -54.35-54.81m -eggshell graphitic clasts. -medium green coloured groundmass with black clasts. -very fine grained to aphanitic. -one flow, containing 40-50% graphite clasts. -clasts are subrounded. -chilled lower contact. -54.81-59.25m -one flow. -54.81-54.90m -quenched flow top. -54.90-54.94m -randomly oriented fine grained acicular pyroxene grains. -54.94-55.40m -30-40% graphitic clasts in pyroxenitic groundmass. -clasts are subrounded to subangular. {55.4-57.05}«1JZ» -light to medium grey-green colour. -fine grained to medium grained, orthocumulate. -40-50% skeletal olivine grains, not rounded but dendritic in nature. -crosscutting serpentine veins. -non-magnetic. {57.05-59.25}«1JZa» -medium grey colour. -fine grained to aphanitic. -intercalated orthocumulate with massive aphanitic portions. -sparse serpentine veining. -lower contact is sharp. {59.25-59.66}«1J» -light grey-green colour. -aphanitic to very fine grained. -massive with chlorite amygdules. -amygdules represent 5% of the unit. -crosscutting serpentine and calcite veins. -59.66-60.0m -dark green and light green colours. 		<ul style="list-style-type: none"> -weak serpentine alteration. -weak serpentine alteration. -weak serpentine alteration. -weak serpentine alteration. {59.25-69.95}«wk chl, sp» -59.66-59.82m -moderate chlorite 	<ul style="list-style-type: none"> {53.73-54.35}«1X Po» -1% vein associated Po. {54.35-54.81}«2X Po» -2% disseminated Po. {54.94-55.40}«2X Po» -2% disseminated Po. -59.25-59.30m -<1.0% vein associated blonde Sph. -59.63-59.65m -calcite vein with coarse grained Sph and Po. 	<ul style="list-style-type: none"> -56.0-57.0m -WR AN00971.

FROM TO	ROCK TYPE	TEXTURE AND STRUCTURE	ANGLE TO CA	ALTERATION	MINERALIZATION	REMARKS
		<ul style="list-style-type: none"> -aphanitic. -sharp contacts between light and dark colours. -crosscutting calcite veins. {60.0-60.65}«1JZ» -medium grey-green colour. -fine grained orthocumulate. -40% serpentinized olvine grains. -quenched lower contact. -60.35-60.55m -dark coloured, aphanitic. -chlorite alteration zone. -alteration contact halos are visible. {60.65-60.80}«1Jbx» -flow top breccia. -serpentine groundmass with aphanitic clasts of pyroxenitic komatiite. {60.80-61.70}«1JZ» -medium grey colour. -fine grained, orthocumulate. -30-40% serpentinized olvine grains. -pyroxenitic groundmass. -crosscutting serpentine veins. -61.44-61.55m -angular clasts of graphite. -61.60-61.76m -vein of graphitic clasts at 45° to the core axis. -lower contact is aphanitic. {61.70-65.90}«SPIN» -fine grained to coarse grained pyroxene and skeletal olvine spinifex. -randomly oriented grains. -gradational change from fine grained to coarse grained downhole. -crosscutting serpentine veins. {65.90-67.70}«SPIN» -fine grained to medium grained pyroxene spinifex. -randomly oriented grains. -minor amorphous carbon veining. -crosscutting serpentine veins. {67.70-68.50}«1W» -medium green colour. -medium to coarse grained leafy olvine grains. -<1.0% leucoxene grains. -crosscutting serpentine veins. {68.50-69.95}«1JT» -medium grey-green colour. -fine grained to medium grained felty pyroxene 		<ul style="list-style-type: none"> alteration. -59.82-60.0m -strong silicification. -weak serpentine and chlorite alteration. -60.35-60.55m -moderate chlorite alteration. -weak serpentine alteration. -weak serpentine and chlorite alteration. -weak serpentine and chlorite alteration. -weak serpentine alteration. -weak serpentine and chlorite alteration. 	<ul style="list-style-type: none"> {60.35-60.55}«1% Po» -1% Po scattered along the edges of the alteration. 	

FROM TO	ROCK TYPE	TEXTURE AND STRUCTURE	ANGLE TO CA	ALTERATION	MINERALIZATION	REMARKS	
69.95 TO 95.13	PERIDOTITIC KOMATIITE «1L»	<p>grains. -crosscutting calcite veins.</p> <p>-69.95-70.01m -randomly oriented olivine spinifex marks contact between the pyroxenitic and peridotitic portions.</p> <p>{70.0-73.15}«12Y» -dark grey-green colour. -fine grained orthocumulate and mesocumulate. -50-70% serpentinized olivine grains. -weakly magnetic. -minor hopper grain development. -crosscutting serpentine veins. -gradational upper and lower contacts.</p> <p>{73.15-76.65}«1W» -dark green and light green colours. -medium to coarse grained hopper grains. -pyroxenitic groundmass. -lower contact is abrupt. -crosscutting serpentine veins.</p> <p>{76.65-86.60}«1HYX» -dark green colour. -fine grained mesocumulate and adcumulate. -70-90% serpentinized olivine grains. -weakly polysutured. -weakly magnetic. -crosscutting lizardite and chrysotile. -development of mesh textures. -gradational contact to mesocumulate downhole. -development of zipper fractures.</p> <p>{86.60-94.40}«1HY» -medium grey and medium green colour. -fine grained mesocumulate. -60-70% serpentinized olivine grains. -crosscutting serpentine veins. -weakly magnetic. -gradational decrease in olivine content to orthocumulate.</p> <p>-91.50-93.0m -differential alteration gives core a fragmental appearance.</p> <p>{94.40-95.13}«12» -medium grey colour. -fine grained orthocumulate. -30-40% serpentinized olivine grains. -crosscutting calcite and serpentine veins. -lower contact fairly sharp.</p>		<p>«mod sp» -moderate serpentine alteration.</p> <p>-weak to moderate serpentine alteration.</p> <p>«mod sp» -moderate serpentine alteration.</p> <p>-moderate to weak serpentine alteration.</p> <p>-weak serpentine alteration.</p>			
						-80.0-83.0m -WR AN00972.	
						-94.81-94.82m -calcite vein contains black jack Sph.	

FROM TO	ROCK TYPE	TEXTURE AND STRUCTURE	ANGLE TO CA	ALTERATION	MINERALIZATION	REMARKS
95.13 TO 96.50	PYROXENITIC KOMATIITE «1J»	-medium grey and light grey colours. -very fine grained to aphanitic. -basal pyroxenitic zone. -quench textures at the lower contact. -crosscutting carbonate and serpentine veins. -lower contact is very sharp.		-weak serpentine alteration.		
96.50 TO 97.45	HYALO-CLASTITE «1H»	-buff and dark green colour. -aphanitic shards and clasts of komatiitic basalt. -clasts up to 15mm in size. -clasts are subrounded to subangular. -sharp lower contact with graphitic sediments.		«mod chl» -96.50-96.80m -moderate chlorite alteration. -96.80-97.45m -weak chlorite alteration. -96.50-97.45m -looks bleached and washed out.		
97.45 TO 97.68	GRAPHITIC SEDIMENTS «5g»	-black colour. -aphanitic. -clasts of aphanitic komatiite. -crosscut by tensile calcite veins. -upper and lower contacts are sharp but clasts of graphite extend along fractures into the underlying unit.				
97.68 TO 97.85	KOMATIITIC BASALT «1H»	-medium grey colour. -very fine grained to aphanitic. -similar to flame textures into unit from graphitic sediments.		-very weak alteration.		
97.85 TO 97.95	GRAPHITIC SEDIMENTS «5g»	-black colour. -aphanitic groundmass with clast of aphanitic flow material. -crosscut by calcite veins.				
97.95 TO 121.77	PERIDOTITIC KOMATIITE «1L»	-97.95-98.05m -flow top quench zone. 98.05-102.0 «SPIN» -dark green and medium green colours. -fine grained to coarse grained bladed and skeletal olivine spinifex. -grain size increases downhole. -minor serpentine veining. 102.0-107.75 «1MYX» -dark green to brown-green colour. -fine grained mesocumulate and adcumulate. -70-90% serpentinized olivine grains. -development of minor mesh texture. -several crosscutting lizardite and chrysotile		-moderate to weak serpentine alteration. «mod sp» -moderate serpentine alteration.		-97.95-98.05m -WR AN00973. -104.0-106.0m -WR AN00974.

FROM TO	ROCK TYPE	TEXTURE AND STRUCTURE	ANGLE TO CA	ALTERATION	MINERALIZATION	REMARKS
121.77 TO 128.41	PYROXENITIC KOMATIITE «1J»	<p>veins. -lower contact sharp. -possibly assimilation contact since footwall unit is coarse grained spinifex.</p> <p>‡107.75-109.75‡«SPIN‡» -coarse grained skeletal and dendritic olivine spinifex. -appears to be autobrecciated in areas. -miriad of serpentine veins. -109.70-109.75m -becomes finer grained towards contact.</p> <p>-109.75-109.87m -consists of 95% aphanitic ultramafic clasts and a 5% graphitic matrix.</p> <p>‡109.87-115.60‡«SPIN‡» -medium grey and dark green colours. -fine grained to coarse grained olivine spinifex. -consists primarily of bladed olivine grains with minor dendritic olivine sections. -crosscutting serpentine veins. -minor brecciation caused by serpentine veining.</p> <p>-110.0-110.20m -clasts of graphite in a pyroxenitic matrix.</p> <p>‡115.60-121.77‡«1YX‡» -dark grey and dark green colours. -fine grained, mesocumulate and adcumulate. -70-90% serpentinized olivine grains. -moderately magnetic. -crosscutting lizardite and chrysotile veins.</p> <p>‡121.77-126.10‡«SPIN‡» -fine grained to coarse grained bladed olivine spinifex. -medium grey groundmass and dark green spinifex blades. -increase in grain size downhole. -sharp lower contact.</p> <p>‡126.10-127.4‡«1LZ‡» -dark green colour. -medium grained to fine grained orthocumulate. -30-40% serpentinized olivine grains. -crosscutting serpentine veins. -gradational decrease in olivine content downhole.</p> <p>-127.4-127.84m -medium grey-green colour.</p>		<p>-weak to moderate serpentine alteration.</p> <p>-weak serpentine alteration.</p> <p>«mod sp» -moderate serpentine alteration.</p> <p>-weak serpentine alteration.</p> <p>-weak to moderate serpentine alteration.</p> <p>-weak chlorite and serpentine</p>	<p>-109.0-109.75m -<1.0% disseminated Po.</p> <p>‡110.0-110.30‡«2X Po‡» -2% Po associated with the graphitic clasts.</p>	<p>-126.2-127.3m -WR AN00975.</p>

FROM TO	ROCK TYPE	TEXTURE AND STRUCTURE	ANGLE TO CA	ALTERATION	MINERALIZATION	REMARKS
		<ul style="list-style-type: none"> -aphanitic, massive. -contains 5% chlorite filled amygdules. -crosscutting calcite and serpentine veins. -127.84-128.41m -basal flow contact. -aphanitic with veins of hyaloclastite migrating from the underlying unit. -quenched lower contact. 		alteration.	{127.4-127.84} <2X Po> <1-2X Po blebs.	
128.41 TO 128.62	HYALO-CLASTIC KOMATIITE «1H»	{128.41-128.62} «HYALOCLASTITE» <ul style="list-style-type: none"> -light green and dark grey-brown clasts. -light grey alteration rims around dark coloured clasts. 		-weak chlorite alteration.		
128.62 TO 134.00	PERIDOTITIC KOMATIITE «1L»	{128.62-131.75} «SPIN» <ul style="list-style-type: none"> -medium grey-green and green-brown colours. -fine grained to coarse grained olivine spinifex. -grain size increases downhole. -becomes finer grained towards contact with cumulate; gradational change. {131.75-134.0} «12Y» <ul style="list-style-type: none"> -dark green and light grey colours. -fine grained to medium grained orthocumulate and mesocumulate. -more orthocumulate than mesocumulate. -40-60% serpentinized olivine grains. -crosscutting serpentine veins. -becomes aphanitic and more pyroxenitic when close to lower contact. 		-weak serpentine alteration. -weak to moderate serpentine alteration.		
134.00 TO 134.60	GRAPHITIC INTERFLOW BRECCIA «5gbx»	<ul style="list-style-type: none"> -black and light grey colour. -aphanitic groundmass and clasts. -contains clasts of serpentine and komatiitic material. -composed of 40% clasts. -clasts are subrounded. -contacts are approximately 60° to the core axis. 			<1.0% disseminated Po with trace Sph.	
134.60 TO 140.70	PYROXENITIC KOMATIITE «1J»	-134.6-135.05m -dark grey, aphanitic, flow top quench zone. {135.05-137.48} «SPIN» <ul style="list-style-type: none"> -fine grained to coarse grained skeletal, bladed and hopper olivine spinifex. -light grey groundmass with dark green serpentinized olivine grains. -minor crosscutting serpentine veins. 		-weak serpentine alteration.		

FROM TO	ROCK TYPE	TEXTURE AND STRUCTURE	ANGLE TO CA	ALTERATION	MINERALIZATION	REMARKS
		<p>{137.48-140.7} «12Y»</p> <ul style="list-style-type: none"> -medium grey and green colours. -fine grained orthocumulate and mesocumulate. -40-60% serpentinized olivine grains. -crosscutting serpentine veins. -lower contact in contact with a fault in the graphitic sediments. -moderately magnetic. -weak mesh texture. 		-weak to moderate serpentine alteration.	-<0.1% smeared Py along fracture planes.	
140.70 TO 142.00	GRAPHITIC SEDIMENT «5gbx»	<ul style="list-style-type: none"> -black coloured with light green clasts. -strongly sheared with development of foliation at 40° to the core axis. -clasts are aphanitic, rounded and stretched at 40° to the core axis. -pyrite is also sheared and obliterated. -graphite has polished appearance. <p>{140.7-142.0} «FAI»</p> <ul style="list-style-type: none"> -strong shearing. 			-<0.1% Py, stretched along foliation planes.	
142.00 TO 144.05	KOMATIITIC BASALT «1H»	<ul style="list-style-type: none"> -142.0-142.6m -flow top zone. -combination of aphanitic, almost hyaloclastic clasts and brecciated spinifex clasts. -light and medium grey colours. -serpentine groundmass. -142.6-144.05m -medium grey colour. -aphanitic to very fine grained. -appears to be orthocumulate in sections. -almost 100% pyroxene grains. -serpentine veins cause some insitu brecciation. 		-weak serpentine alteration.		
144.05 TO 144.70	GRAPHITIC SEDIMENT «5g»	<ul style="list-style-type: none"> -black colour. -aphanitic, massive. -upper contact at 85° to the core axis. -lower contact at 65° to the core axis. -tensile calcite veins at 65° to the core axis. -calcite veins have closer spacing near basal contact. -several veins display "S" fold features. -sulphide nodules are stretched parallel to calcite veining. 		-weak serpentine alteration.	<p>{144.05-144.70} «2X Po»</p> <ul style="list-style-type: none"> -2% disseminated and nodular Po. -Po nodules are zoned. 	

FROM TO	ROCK TYPE	TEXTURE AND STRUCTURE	ANGLE TO CA	ALTERATION	MINERALIZATION	REMARKS
144.70 TO 147.55	PYROXENITIC KOMATIITE «1J»	{144.70-147.55}«1VU» -medium grey colour. -fine grained. -combination of acicular pyroxene spinifex with hopper and platy olivine spinifex. -locally brecciated by serpentine veining. -very weakly magnetic. -lower contact sheared and brecciated.		-weak serpentine alteration.		
147.55 TO 158.15	PERIDOTITIC KOMATIITE «1L»	{147.55-147.60}«FAI» -faulted contact composed of graphite and serpentine. -147.6-148.5m -medium grey-green colour. -aphanitic to very fine grained. -weakly developed skeletal olivine grains. -occasional chlorite filled amygdules with minor associated pyrite. -moderately crosscut by serpentine veins. -aphanitic clasts of komatiitic material. {148.5-149.2}«graphitic breccia» -medium green groundmass with black graphitic clasts. -groundmass composed of 20% pyroxene grains. -clasts of aphanitic graphitic sediment. -sulphides contained within graphitic clasts but mostly in close association with the clasts. -clasts are subrounded to subangular. -minor crosscutting chrysotile veins. {149.2-158.15}«1MYX» -dark green to dark grey-green colours. -fine grained mesocumulate and adcumulate. -70-90% serpentinized olivine grains. -lower contact at 80° to the core axis. -sharp lower contact. -moderately magnetic. -several crosscutting lizardite and chrysotile veins.		-weak serpentine alteration. -weak serpentine alteration. -moderate serpentine alteration. «mod sp»	{148.3-148.5}«2X Po, Pn?» -2% disseminated Po with possible Pn. {148.5-149.2}«5X Po, Pn» -5% blebby and vein controlled Po and Pn with trace Cpy. -157.75-158.0m -<1.0% blebby Po and Pn. {158.0-158.15}«5X Po, Pn» -5% Po and Pn with trace Cpy in veins.	-147.6-148.5m -WR AN00976. -152.0-155.0m -WR An00977.
158.15 TO 160.40	PYROXENITIC KOMATIITE «1J»	-sharp contact but appears to be part of the same flow. {158.15-160.4}«1Z» -medium grey-green colour. -fine grained orthocumulate with aphanitic groundmass. -20-30% serpentinized olivine grains.		-weak to moderate serpentine alteration.	-<1.0% vein associated Po and Py.	

FROM TO	ROCK TYPE	TEXTURE AND STRUCTURE	ANGLE TO CA	ALTERATION	MINERALIZATION	REMARKS
160.40 TO 167.88	GRAPHITIC HYALO-CLASTIC SEDIMENT «5g»	<ul style="list-style-type: none"> -minor brecciation caused by crosscutting serpentine veins. -sharp lower contact at 70° to the core axis. -lower contact has a weak quench texture. -all sulphides are contained within serpentine veins. -black colour with light grey specks. -aphanitic with fine grained to medium grained rounded shards. -160.4-161.5m -massive graphitic sediment with nodular Py. -40% hyaloclastic material subparallel to the core axis. -160.4-162.0m -glassy shards are totally or partially replaced by sulphides. -several crosscutting quartz-carbonate veins at 30-40° to the core axis. -162.0-167.88m -composed of between 20-30% shards. -several crosscutting quartz carbonate veins. -sections have a more argillaceous component. -lower contact hazy into non-graphitic hyaloclastite at 70° to the core axis. -weakly magnetic. 		<ul style="list-style-type: none"> -weak to moderate silicification. «mod sil» 	<ul style="list-style-type: none"> {160.4-162.0} «10% Py» -10% Py, nodular and replacing shards. {162.0-165.3} «2% Py» -2% disseminated Py and veins. {165.3-165.8} «5% Po» -5% massive Po in quartz carbonate vein. {165.8-167.88} «1% Po» -1% Po associated with quartz carbonate veining. -<0.1% disseminated Po. 	
167.88 TO 179.10	PYROXENITIC KOMATIITE «1J»	<ul style="list-style-type: none"> -167.88-168.10m -hyaloclastic, flow top. -light grey colour. -aphanitic. -interstitial chlorite alteration. -5-10% chlorite, quartz-carbonate filled amygdules <1.0mm in diameter. -reaction rim alteration features. -contains larger clasts of flow top breccia. -168.10-168.3m -flow top quench zone. -aphanitic. -5% chlorite filled amygdules. -undulating flow top contact with hyaloclastite. {168.3-169.7} «SPIN» -light grey-green colour. -fine grained to medium grained, skeletal olivine spinifex. -contains occasional clast of angular graphitic sediment. -minor serpentine veining. 		<ul style="list-style-type: none"> -weak chlorite alteration. «wk chl, sp» -weak serpentine alteration. -weak serpentine and chlorite alteration. 		

FROM TO	ROCK TYPE	TEXTURE AND STRUCTURE	ANGLE TO CA	ALTERATION	MINERALIZATION	REMARKS
179.10 TO 179.50	SULPHIDIC SEDIMENTS «S»	<p>169.7-171.50 «angular graphitic breccia»</p> <ul style="list-style-type: none"> -light grey-green and black colours. -clasts display insitu brecciation. -clasts are angular. -minor sulphides contained within graphitic clasts or in close proximity. -graphitic clasts appear to be trapped in a rapidly cooling pyroxenitic quench. <p>171.50-172.85 «1JV»</p> <ul style="list-style-type: none"> -medium to coarse grained skeletal olivine spinifex. -gradational upper and lower contacts. -several crosscutting serpentine veins. <p>172.85-175.25m -light to medium grey-green colour.</p> <ul style="list-style-type: none"> -fine grained pyroxene cumulate. -composed primarily of equant pyroxene grains. -crosscutting calcite and chlorite veins. -gradational upper and lower contacts. -non magnetic. <p>175.25-176.7 «1JV»</p> <ul style="list-style-type: none"> -medium grained to coarse grained skeletal olivine spinifex with medium grained acicular pyroxene spinifex. -medium grey-green colour. <p>176.7-176.9m -brecciated flow top with graphitic matrix.</p> <ul style="list-style-type: none"> -light grey-green with black matrix. -70% ultramafic clasts, aphanitic. -appears to be foliated at 55° to the core axis. <p>176.9-179.10 «1Z»</p> <ul style="list-style-type: none"> -medium green-grey colour. -fine grained orthocumulate. -20-30% serpentinized olivine grains. -very weakly magnetic. -crosscutting serpentine veins. -lower contact was sharp but undulatory. <p>179.10-179.50</p> <ul style="list-style-type: none"> -brassy yellow and black colours. -sulphides display original nodular textures stretched and contorted at 80° to the core axis. -approximately 5-10% interstitial graphite. -pyrite appears to be getting altered to pyrrhotite. -lower contact sharp but undulatory. 		<p>-weak serpentine alteration.</p> <p>-weak chlorite alteration.</p> <p>-weak serpentine alteration.</p> <p>-weak serpentine alteration.</p>	<p>169.7-171.5 «2X Po»</p> <ul style="list-style-type: none"> -2X Po associated with graphite clasts. <p>178.05-178.10 «15X Po»</p> <ul style="list-style-type: none"> -serpentine vein containing 10-20X Po. <p>178.75-179.10 «1X Po»</p> <ul style="list-style-type: none"> -1-2% disseminated Po replacing olivine grains. <p>179.10-179.50 «85X Py, Po»</p> <ul style="list-style-type: none"> -massive nodular Py and Po with trace Cpy and Pn? 	-177.0-178.0m -WR AN00978.

FROM TO	ROCK TYPE	TEXTURE AND STRUCTURE	ANGLE TO CA	ALTERATION	MINERALIZATION	REMARKS
179.50 TO 205.55	INTER-MEDIATE FELDSPATHIC VOLCANICS «3D»	-dark grey to light grey-green colours. -aphanitic fragmental with 30-40% dark clasts. -15-25% plagioclase laths. -possible quartz amygdules. -2-5% chlorite grains. -fragmental appearance looks like differential alteration.		-weak to moderate chlorite alteration. -alteration more intense near contacts with komatiites. «mod chl»	{179.50-180.20}«2% Po» -2% Po decreasing downhole. {200.0-200.20}«1% Po» -1% fracture controlled Po.	-201.0-204.0m -WR AN00979.
205.55 TO 205.75	PYROXENITIC KOMATIITIC INTRUSION «6J»	-dark grey colour. -aphanitic to very fine grained. -lower contact has well developed contact aureole into the footwall. -upper contact has a smaller aureole. -non magnetic. -crosscut by serpentine veins.		-weak serpentine alteration. «wk sp»		
205.75 TO 207.35	INTER-MEDIATE FELDSPATHIC VOLCANIC «3D»	-light green groundmass with light grey to medium grey coloured fragments. -aphanitic groundmass. -10% fine grained plagioclase laths. -5% chlorite grains. -minor quartz amygdules. -207.25-207.35m -lower contact has a cooked margin. -contact is sharp but undulatory.		-weak chlorite alteration. «wk sp»		
207.35 TO 207.50	PYROXENITIC KOMATIITIC INTRUSIVE «6J»	{207.35-207.50}«SPIN» -fine grained to very fine grained random minifex. -dark grey colour. -sharp lower contact at 50° to the core axis. -crosscut by serpentine veining.		-weak serpentine alteration. «wk sp»		
207.50 TO 207.60	INTER-MEDIATE FELDSPATHIC VOLCANIC «3D»	-medium green and medium grey colours. -aphanitic. -fine grained plagioclase grains partially altered. -lower contact shows cooked margin with komatiite.		-moderate chlorite alteration. «wk chl»		
207.60 TO 208.70	PYROXENITIC KOMATIITIC INTRUSIVE «6J»	{207.60-208.70}«SPIN» -dark grey colour. -very fine grained to coarse grained random platy spinifex. -symmetrical with coarse grained in the centre becoming finer grained towards both contacts.		-weak serpentine alteration. «wk sp»		-207.60-208.70m -WR AN00980.

FROM TO	ROCK TYPE	TEXTURE AND STRUCTURE	ANGLE TO CA	ALTERATION	MINERALIZATION	REMARKS
208.70 TO 227.00	INTER-MEDIATE FELDSPATHIC VOLCANICS «30»	<ul style="list-style-type: none"> -lower contact quenched with cooked margin into the footwall. -minor crosscutting serpentine veins. -light grey-green groundmass with medium grey fragments. -aphanitic. -fine grained to medium grained plagioclase laths. -5-20% plagioclase grains. -2-3% chlorite grains. -5% quartz amygdules. -crosscut by several quartz-carbonate veins at between 40 and 60° to the core axis. 		-weak chlorite alteration. «wk chl»	-<0.1% Po associated with quartz-carbonate veining.	-215.0-218.0m -WR AN00981.
227.00 TO 227.00	E.O.H.					

APPENDIX C
AUTHOR'S STATEMENT OF QUALIFICATIONS
and FIELD PERSONNEL

STATEMENT OF QUALIFICATIONS

I, Arthur Douglas McLaughlin, of #9 - 820 Suzanne Street, Timmins, Ontario, do hereby declare:

I graduated from Acadia University in Wolfville, Nova Scotia with a Bachelor of Science degree in geology,

I have been employed as a mineral exploration geologist for the past twelve years,

I am currently employed as a geologist with Falconbridge Limited and that the work described in this report was conducted under my direct supervision,

I have no legal interest, nor expect any, in the mining claims described in this report, or in Falconbridge Limited.

A handwritten signature in cursive script that reads "Doug McLaughlin". The signature is written in black ink and is positioned above a horizontal line that extends to the right.

Doug McLaughlin

Timmins, Ontario

FIELD PERSONNEL

Doug McLaughlin

Project Geologist, Falconbridge Limited
#9 - 820 Suzanne Street, Timmins, Ontario P4N 8C4

Ian Liu

Technician, Falconbridge Limited
40 Shirley Street, Timmins, Ontario

Diamond Drillers

Norex Drilling Limited
P.O. Box 88, South Porcupine, Ontario P0N 1C0

Darral Chartrand

Surveyor, 421 Norman Street, Timmins, Ontario

Report #24
Report of Work Conducted After Recording Claim
Mining Act

Assmt Files
Transaction Number
W9260.00144

Personal information collected on this form is obtained under the authority of the Mir this collection should be directed to the Provincial Manager, Mining Lands, Minis Sudbury, Ontario, P3E 6A5, telephone (705) 870-7264.



900

- Instructions:**
- Please type or print and submit in duplicate.
 - Refer to the Mining Act and Regulations for requirements of filing assessment work or consult the Mining Recorder.
 - A separate copy of this form must be completed for each Work Group.
 - Technical reports and maps must accompany this form in duplicate.
 - A sketch, showing the claims the work is assigned to, must accompany this form.

Recorded Holder(s) FALCONBRIDGE LIMITED		Client No. 130679.FL
Address P.O. Box 1140, 571 MONETA AVE, TIMMINS, ONT P4N 7H4		Telephone No. (705) 267-1188
Mining Division PORCUPINE	Township/Area DUNDONALD	M or G Plan No.
Dates Work Performed From: OCT 25, 1991	To: OCT 31, 1991	

Work Performed (Check One Work Group Only)

Work Group	Type
Geotechnical Survey	
<input checked="" type="checkbox"/> Physical Work, Including Drilling	DIAGNOSTIC GEOLOGICAL SURVEY GIS ASSESSMENT FILES NOV 19 1992 DUNDONALD, ONTARIO SURVEYING
Rehabilitation	
Other Authorized Work	
Assays	
Assignment from Reserve	

RECEIVED
 ONTARIO GEOLOGICAL SURVEY
 GIS ASSESSMENT FILES
 NOV 19 1992

RECORDED
 OCT 23 1992
 Receipt _____

Total Assessment Work Claimed on the Attached Statement of Costs \$ 15,016

Note: The Minister may reject for assessment work credit all or part of the assessment work submitted if the recorded holder cannot verify expenditures claimed in the statement of costs within 30 days of a request for verification.

Persons and Survey Company Who Performed the Work (Give Name and Address of Author of Report)

Name	Address
DOUG McLAUGHLIN	#9-820 SUZANNE ST, TIMMINS, ONT P4N 8C4
DARREK CHARLEND	421 NORMAN ST, TIMMINS, ONT
NOREX DRILLING INC	P.O. Box 88, South Porcupine, Ont P0N 1C0
IAN LUI	40 SHIRLEY ST, TIMMINS, ONT

(attach a schedule if necessary)

Certification of Beneficial Interest * See Note No. 1 on reverse side

I certify that at the time the work was performed, the claims covered in this work report were recorded in the current holder's name or held under a beneficial interest by the current recorded holder.	Date OCT 16, 1992	Recorded Holder or Agent (Signature) <i>Doug McLaughlin</i>
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Certification of Work Report

I certify that I have a personal knowledge of the facts set forth in this Work report, having performed the work or witnessed same during and/or after its completion and annexed report is true.		
Name and Address of Person Certifying DOUG McLAUGHLIN, #9-820 SUZANNE ST, TIMMINS, ONT P4N 8C4		
Telephone No. (705) 267-8105	Date OCT 16, 1992	Certified By (Signature) <i>Doug McLaughlin</i>

For Office Use Only

Total Value Cr. Recorded \$ 15,016	Date Recorded OCT. 23/92	Mining Recorder <i>St. Whit</i>	<table border="1"> <tr> <td colspan="2" style="text-align: center;">RECEIVED</td> </tr> <tr> <td colspan="2" style="text-align: center;">OCT 23 1992</td> </tr> <tr> <td colspan="2" style="text-align: center;"><i>cm.</i></td> </tr> </table>	RECEIVED		OCT 23 1992		<i>cm.</i>	
	RECEIVED								
	OCT 23 1992								
<i>cm.</i>									
Deemed Approval Date JAN 21/93	Date Approved								
Date Notice for Amendments Sent									

Work Report Number for Applying Reserve	Claim Number (see Note 2)	Number of Claim Units
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Value of Assessment Work Done on this Claim	Value Applied to this Claim
---	-----------------------------

Value Assigned from this Claim	Reserve: Work to be Claimed at a Future Date
--------------------------------	--

	A	B	C	D	E	F	G
1	Work report			Value of	Value applied	Value assigned	Reserve:
2	number for	Claim	Number of	assessment	to this claim	from this claim	work to be
3	applying	number	claim units	work done on			claimed at a
21	Work report			Value of	Value applied	Value assigned	Reserve:
22	number for	Claim	Number of	assessment	to this claim	from this claim	work to be
23	applying	number	claim units	work done on			claimed at a
24	reserve			this claim			future date
25	not applic.	P1127896	1	\$0	\$2,210	\$0	\$0
26	"	P1133283	1	\$0	\$2,000 9105.5	\$0	\$0
27	"	P1127895	1	\$0	\$2,000 9185.5	\$0	\$0
28	"	L71005	1	\$15,016	\$0	\$6,210 5.875	\$8,805 9.246
29							
30			4	\$15,016	\$6,210 5.875	\$6,210	\$8,805 9.246
31			Total number	Total value	Total value	Total assigned	Total reserve
32			of claims	work done	work applied	from	

Am
Am

Total Number of Claims

Total Value Work Done
Total Value Work Applied

See attached amendments for confirmation

Total Assigned From
Total Reserve

Credits you are claiming in this report may be cut back. In order to minimize the adverse effects of such deletions, please indicate from which claims you wish to prioritize the deletion of credits. Please mark (✓) one of the following:

- Credits are to be cut back starting with the claim listed last, working backwards.
- Credits are to be cut back equally over all claims contained in this report of work.
- Credits are to be cut back as prioritized on the attached appendix.

In the event that you have not specified your choice of priority, option one will be implemented.

Note 1: Examples of beneficial interest are unrecorded transfers, option agreements, memorandum of agreements, etc., with respect to the mining claims.

Note 2: If work has been performed on patented or leased land, please complete the following:

I certify that the recorded holder had a beneficial interest in the patented or leased land at the time the work was performed.

Signature: *[Handwritten Signature]*
Date: *Oct 16 1991*

Work Report Number for Applying Reserve	Claim Number (see Note 2)	Number of Claim Units	Value of Assessment Work Done on this Claim	Value Applied to this Claim	Value Assigned from this Claim	Reserve: Work to be Claimed at a Future Date
A	B	C	D	E	F	G
1 Work report number for applying	Claim number	Number of claim units	Value of assessment work done on this claim	Value applied to this claim	Value assigned from this claim	Reserve: work to be claimed at a
21 Work report number for applying reserve	Claim number	Number of claim units	Value of assessment work done on this claim	Value applied to this claim	Value assigned from this claim	Reserve: work to be claimed at a future date
25 not applic.	P1127896	1	\$0	\$2,210	NO \$0	\$0
26 "	P1133283	1	\$0	\$2,000	NO \$0	\$0
27 "	P1127895	1	\$0	\$2,000	NO \$0	\$0
28 "	L71005	1	\$15,016	\$0	\$6,210	\$8,805
29				\$45,870	\$5,705	\$49,845
30		4	\$15,016	\$6,210	\$6,210	\$8,805
31		Total number of claims	Total value work done	Total value work applied	Total assigned from	Total reserve

change to \$1020
change to \$5170 on assigned
 O.K. ADAM

Total Number of Claims	Total Value Work Done	Total Value Work Applied	Total Assigned From	Total Reserve

Credits you are claiming in this report may be cut back. In order to minimize the adverse effects of such deletions, please indicate for which claims you wish to prioritize the deletion of credits. Please mark (✓) one of the following:

- ☑ Credits are to be cut back starting with the claim listed last, working backwards.
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- ☐ Credits are to be cut back as prioritized on the attached appendix.

In the event that you have not specified your choice of priority, option one will be implemented.

Note 1: Examples of beneficial interests are unrecorded transfers, option agreements, memorandum of agreements, etc., with respect to the mining claims.

Note 2: If work has been performed on patented or leased land, please complete the following:

I certify that the recorded holder had a beneficial interest in the patented or leased land at the time the work was performed.

Signature: [Signature]

Date: 05/16/97



Ministry of
Northern Development
and Mines

Ministère du
Développement du Nord
et des mines

Statement of Costs
for Assessment Credit

État des coûts aux fins
du crédit d'évaluation

Mining Act/Loi sur les mines

Transaction No./N° de transaction
W9260.00144

Personal information collected on this form is obtained under the authority of the Mining Act. This information will be used to maintain a record and ongoing status of the mining claim(s). Questions about this collection should be directed to the Provincial Manager, Minings Lands, Ministry of Northern Development and Mines, 4th Floor, 159 Cedar Street, Sudbury, Ontario P3E 6A5, telephone (705) 670-7264.

Les renseignements personnels contenus dans la présente formule sont recueillis en vertu de la Loi sur les mines et serviront à tenir à jour un registre des concessions minières. Adresser toute question sur la collecte de ces renseignements au chef provincial des terrains miniers, ministère du Développement du Nord et des Mines, 159, rue Cedar, 4^e étage, Sudbury (Ontario) P3E 6A5, téléphone (705) 670-7264.

1. Direct Costs/Coûts directs

Type	Description	Amount Montant	Totals Total global
Wages Salaires	Labour Main-d'oeuvre		
	Field Supervision Supervision sur le terrain		
Contractor's and Consultant's Fees Droits de l'entrepreneur et de l'expert- consell	Type		
Supplies Used Fournitures utilisées	Type		
Equipment Rental Location de matériel	Type		
Total Direct Costs Total des coûts directs			15,016

2. Indirect Costs/Coûts indirects

** Note: When claiming Rehabilitation work Indirect costs are not allowable as assessment work.
Pour le remboursement des travaux de réhabilitation, les coûts indirects ne sont pas admissibles en tant que travaux d'évaluation.

Type	Description	Amount Montant	Totals Total global
Transportation Transport	Type		
Food and Lodging Nourriture et hébergement	Receipt		
Mobilization and Demobilization Mobilisation et démobilisation			
Sub Total of Indirect Costs Total partiel des coûts indirects			
Amount Allowable (not greater than 20% of Direct Costs) Montant admissible (n'excédant pas 20 % des coûts directs)			
Total Value of Assessment Credit (Total of Direct and Allowable indirect costs)		Valeur totale du crédit d'évaluation (Total des coûts directs et indirects admissibles)	

Note: The recorded holder will be required to verify expenditures claimed in this statement of costs within 30 days of a request for verification. If verification is not made, the Minister may reject for assessment work all or part of the assessment work submitted.

Note: Le titulaire enregistré sera tenu de vérifier les dépenses demandées dans le présent état des coûts dans les 30 jours suivant une demande à cet effet. Si la vérification n'est pas effectuée, le ministre peut rejeter tout ou une partie des travaux d'évaluation présentés.

Filing Discounts

1. Work filed within two years of completion is claimed at 100% of the above Total Value of Assessment Credit.
2. Work filed three, four or five years after completion is claimed at 50% of the above Total Value of Assessment Credit. See calculations below:

Total Value of Assessment Credit	Total Assessment Claimed
	× 0.50 =

Remises pour dépôt

1. Les travaux déposés dans les deux ans suivant leur achèvement sont remboursés à 100 % de la valeur totale susmentionnée du crédit d'évaluation.
2. Les travaux déposés trois, quatre ou cinq ans après leur achèvement sont remboursés à 50 % de la valeur totale du crédit d'évaluation susmentionné. Voir les calculs ci-dessous.

Valeur totale du crédit d'évaluation	Évaluation totale demandée
	× 0,50 =

Certification Verifying Statement of Costs

I hereby certify:
that the amounts shown are as accurate as possible and these costs were incurred while conducting assessment work on the lands shown on the accompanying Report of Work form.

that as [Signature] I am authorized
(Recorded Holder, Agent, Position in Company)

to make this certification

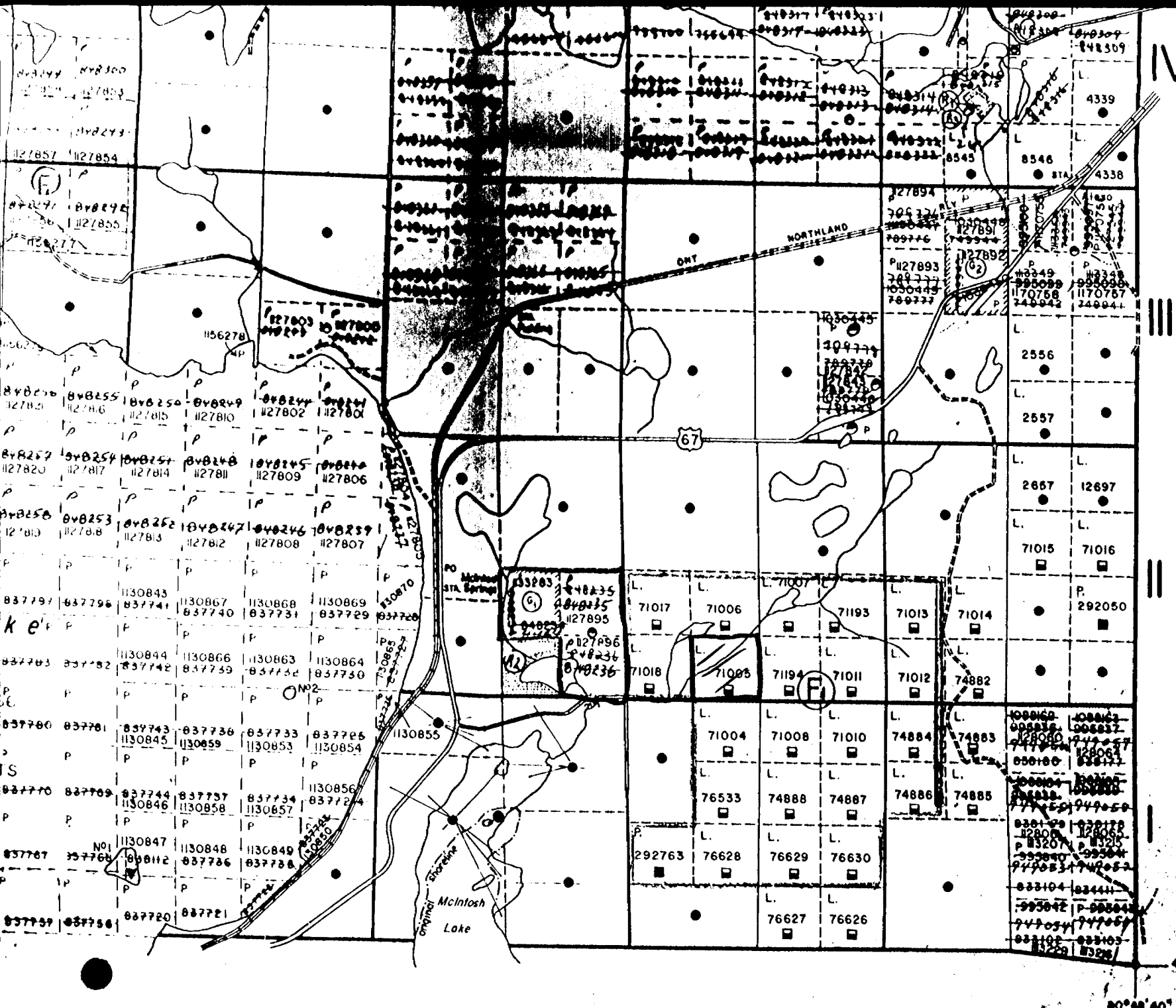
Attestation de l'état des coûts

J'atteste par la présente :
que les montants indiqués sont le plus exact possible et que ces dépenses ont été engagées pour effectuer les travaux d'évaluation sur les terrains indiqués dans la formule de rapport de travail ci-joint.

Et qu'à titre de [Signature] je suis autorisé
(titulaire enregistré, représentant, poste occupé dans la compagnie)

à faire cette attestation.

Signature	Date



CLERGUE TWP.

GERMAN TWP.

48°37'50"
80°08'40"

REFERENCES

AREAS WITHDRAWN FROM DISPOSITION

M.R.O. - MINING RIGHTS ONLY
 S.R.O. - SURFACE RIGHTS ONLY
 M.+S. - MINING AND SURFACE RIGHTS

Description	Order No.	Date	Disposition	File
SEC 42/60			S.R.O.	32269
SEC 43/70	W.66/75	1/12/75	M.+S.	1593
NKO 31/85		22/1/85	M.+S.R.	

F. - THIS TWP SUBJECT TO FOREST ACTIVITY IN 1992/93 FURTHER INFORMATION ON FILE.

SAND AND GRAVEL

- ① M.T.C. PIT 1284
- ② M.T.C. PIT 1274

NOTES

PART OF THIS TOWNSHIP SOUTH AND EAST OF FREDERICK HOUSE LAKE LIES WITHIN THE MUNICIPALITY OF THE CITY OF TIMMINS

WITNESS POSTS FOR CLAIMS STAKED OUT COVERING LAND UNDER THE WATERS OF FREDERICK HOUSE LAKE IN DUNDONALD TWP. SHOULD NOT BE ERECTED OR PLANTED IN EVELYN TWP.

FLOODING RIGHTS ON FREDERICK HOUSE LAKE RESERVED TO ONTARIO HYDRO TO CONTOUR ELEV. 903', L.O 7128, FILE 64518, VOL 2

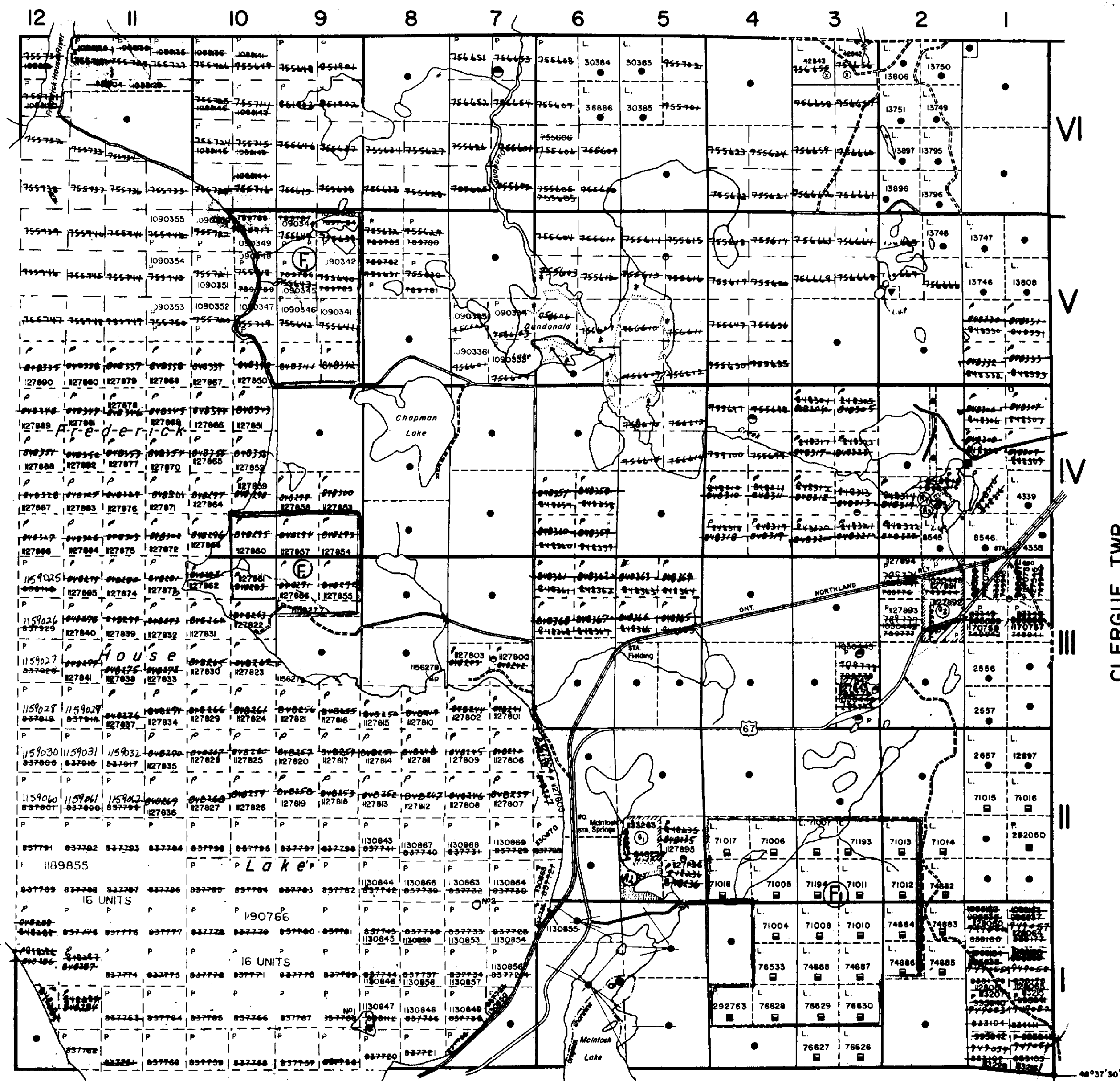
400' surface rights reservation along the shores of all lakes and rivers.

0 L.U.P. (LAND USE PERMIT)

1/6 UNITS

THE INFORMATION THAT APPEARS ON THIS MAP HAS BEEN COMPILED FROM VARIOUS SOURCES, AND ACCURACY IS NOT GUARANTEED. THOSE WISHING TO STAKE MINING CLAIMS SHOULD CONSULT WITH THE MINING RECORDER, MINISTRY OF NORTHERN DEVELOPMENT AND MINES, FOR ADDITIONAL INFORMATION

McCART TWP.



GERMAN TWP.

LEGEND

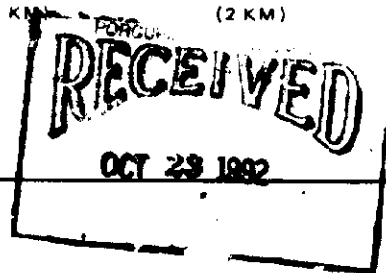
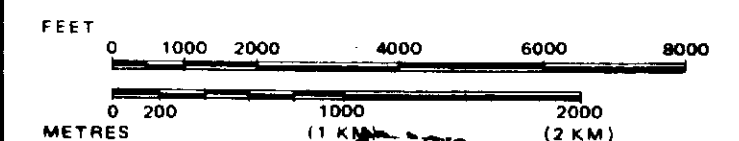
- HIGHWAY AND ROUTE No.
- OTHER ROADS
- TRAILS
- SURVEYED LINES:
 - TOWNSHIPS, BASE LINES, ETC.
 - LOTS, MINING CLAIMS, PARCELS, ETC.
- UNSURVEYED LINES:
 - LOT LINES
 - PARCEL BOUNDARY
 - MINING CLAIMS ETC.
- RAILWAY AND RIGHT OF WAY
- UTILITY LINES
- NON-PERENNIAL STREAM
- FLOODING OR FLOODING RIGHTS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

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	▼
ORDER-IN-COUNCIL	OC
RESERVATION	⊙
CANCELLED	⊖
SAND & GRAVEL	⊕

NOTE: MINING RIGHTS IN PARCELS PATENTED PRIOR TO MAY 6, 1913, VESTED IN ORIGINAL PATENTEE BY THE PUBLIC LANDS ACT, R.S.O. 1970, CHAP. 380, SEC. 63, SUBSEC. 1.

SCALE: 1 INCH = 40 CHAINS



TOWNSHIP
DUNDONALD
 M.N.R. ADMINISTRATIVE DISTRICT
COCHRANE
 MINING DIVISION
PORCUPINE
 LAND TITLES / REGISTRY DIVISION
COCHRANE



Date MARCH, 1985 Number
 ✓ By D. Vallée
 ✓ By J. H. May 4/85
G-3240

