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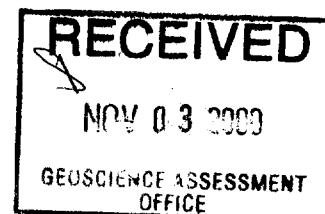
**Report on Diamond Drilling  
Falconbridge Limited - Exploration**

Mann Township, Iroquois Falls, Ont.  
Porcupine Mining Division

**NTS 42A/15**

October 31, 2000

**Prepared by:  
Dean Rogers**





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## **Diamond Drilling Assessment Report Mann Twp, Porcupine Mining Division**

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1. MAIN ROCK DIVISIONS

- 15 To be Announced
- 14 Huronian Supergroup
- 13 Metamorphic (Unknown)
- 12 Gneiss
- 11 Schist
- 10 Diabase
- 9 Felsic Intrusive
- 8 Intermediate Intr. Rocks
- 7 Mafic Intrusive Rocks
- 6 Ultramafic Intr. Rocks
- 5 Sedimentary Rocks
- 5,s Sulphide (>40%)
- 4 Felsic Volcanic Rocks
- 3 Intermediate Volcanic Rocks
- 3,C Heterolithic Volcanic Rocks
- 2 Mafic Volcanic rocks
- 1 Ultramafic Volcanic Rocks

2. TEXTURAL/GEOCHEMICAL MODIFIERS

a	Fine Grained	A	Primitive (Y<20)
b	Medium Grained	B	Evolved (Y>20<60)
bx	Breccia		
c	Coarse Grained	C	Heterolithic
d	Quartz-Feldspar Phyric	D	Feldspar Phyric
e	Amygdaloidal/Vesicular	E	Chert
f	Primary Fragmentals	F	Wacks
g	Graphitic/Argillaceous	G	Leucoxene Bearing
h	Tholeiitic	H	Basaltic Komatite
i	Alkalic		
j	Calc-Alkalic	J	Pyroxenite
k	Komatitic	K	Net Textured
l	Flows (banded)	L	Peridotite
m	Massive	M	Dunite
n	Varicitic/Spherulitic	N	Ophitic
p	Pillowed	P	Porphyritic
q	Quartz Phyric	Q	
r	Oxide Iron Formation	R	Polytextured
s	Sulphides, Exhalites	S	Fractured
t	Pyroclastic	T	Gabbroic Textured
u	High Mg	U	Pyroxene Spinifex
v	High Fe	V	Olivine Spinifex
w	High Al	W	Skeletal/Crescumulate
x	Andesite	X	Accumulate
y	Icelandite	Y	Mesocumulate
z	Highly Evolved (Y>60)	Z	Orthocumulate

ROCK NAMES MUST HAVE ALL MODIFIERS COMMA DELIMITED AND CAN BE NO LONGER THAN 15 CHARACTERS, COMMAS INCLUDED. Example: 3,y,d,<DAC>,\*t

3. ALTERATION MODIFIERS

Ab	Albitization
Bl	Bleached
C>	Carbonaceous
Cb	Carbonatization
Ch	Chloritization
Ep	Epidotization
F>	Iron Carbonatization
He	Hematization
K>	Potassic Alteration
Ka	Kaolinization
Ra	Rust Stained
Se	Sericitization
Si	Silicification
Sr	Serpentinization
Tc	Talc-Carbonatization
Tk	Talc

4. Textural/Structural MODIFIERS

*a	Tuff (67% <2mm)	*n	Graded Bedding
*b	Lapilli Tuff (2-64mm)	*o	Cross bedding
*c	Lapillstone (76% <264mm)	*p	Fault Gouge
*d	Cataclastic	*q	Augen
*e	Block (>64mm)/Xenolith	*r	Porphyroblastic
*f	Autoclastic/Hyaloclastic	*s	Hornfels
*g	Thickly Laminated	*t	foliated/sheared
*h	Thinly Laminated	*u	folded
*i	Clast Supported	*v	boudinage
*j	Matrix Supported	*w	fragmental (felsic>mafic)
*k	Granule (grit 2-4mm)	*x	fragmental (mafic>felsic)
*l	Pebble (4-64mm)	*y	Crystal Tuff (>50% of frags)
*m	Cobble (64-256mm)	*z	Lithic Tuff (>50% of frags)
	Boulder (>256)		

ALTERATION CODES

FORM	
S	Spots
F	Fracture/vein controlled
P	Pervasive
STRENGTH	
S	Strong
M	Moderate
W	Weak

Example: EpPW = Epidote, Pervasive, Weak

MINERALIZATION CODES

FORM	
D	Disseminated/Blebs
F	Fracture/vein controlled
M	Massive
B	Bedded
C	Clasts/Fragments

PERCENTAGE

Numeric percentage, or percentage range (i.e. 1-3%), must always be specified

Example: CpB3% = Chalcopyrite, Bedded, 3%

5. MINERALOGICAL NAMES

Ak	Actinolite	Fc	Fuchsite	Pn	Pentlandite
Alb	Albite	Gn	Galena	Py	Pyrite
Al	Almandine	Gt	Garnet	Px	Pyroxene
Am	Amphibolite	VG	Gold	Po	Pyrrhotite
Ah	Anhydrite	Gf	Graphite	Qt	Quartz
Ad	Andalusite	GS	Gravel & sand	Ro	Rhodochrosite
Ay	Anthophyllite	Gyp	Gypsum	Ru	Rutile
Ap	Apatite	Hem	Hematite	Sur	Serpentine
Ar	Argentite	Hb	Hornblende	Sc	Sericite
Asp	Arsenopyrite	Hy	Hypersthene	Sh	Scheelite
Asb	Asbestos	Il	Ilmenite	Sid	Siderite
Aug	Augite	I-F	Iron Formation	Sil	Silica
Az	Azurite	Jr	Jarosite	Sim	Stilpminite
Ba	Barite	Ky	Kyanite	Spa	Spessartite
bi	Bismuthite	Ls	Limestone	Sph	Sphalerite
Bl	Blotite	Lm	Limonite	Tl	Sphene (Titanite)
Bo	Bornite	Mag	Magnetite	Ag	Silver
Ca	Calcite	Mc	Malachite	Sp	Spinel
Cn	Chalcedony	Ma	Marcasite	Spd	Spodumene
Cc	Chalcocite	Mi	Mica	St	Staurolite
Cp	Chalcopyrite	Mk	Microcline	Sb	Stibnite
Chl	Chlorite	Ml	Millerite	Sul	Sulphides
Ch>	Chloritoid	Mo	Molybdenite	S-M	Mass.Sulphides
Cr	Chromite	Mu	Muscovite	S-D	Diss.Sulphides
Cpx	Clinopyroxene	Ne	Nepheline	Tk	Talc
Co	Cobalt Minerals	Nc	Nicoilite	Te	Telluride
Cv	Covellite	Ni	Nickel minerals	Tt	Tetrahedrite
Ct	Cordierite	Ov	Olivine	Ta-Ci	Tantalite-Columbite
Dp	Diopside	Or	Orthoclase	Tl	Tourmaline
Dol	Dolomite	Opx	Orthopyroxene	Tr	Tremolite
Epi	Epidote	Pl	Plagioclase	Wo	Wollastonite
Fel	Feldspar	Pg	Plagioclase	Zr	Zircon
Fl	Fluorite				

6. ROCK TYPE / PROTOLITH

<QFG>	Quartzofeldspathic	<PER>	Peridotite	<CHM>	Chem. Precip.
<QTZ>	Quartzite	<SER>	Serpentinite	<SLA>	Slate
<MAR>	Marble	<DUN>	Dunite	<KIM>	Kimberlite
<SKA>	Skarn(Calc-Silicate)	<PRX>	Pyroxenite	<CAR>	Carbonatite
<PHY>	Phyllite	<LMP>	Lamprophyre	<AMP>	Amphibolite
<TON>	Tonalite	<SST>	Sandstone	<MIG>	Migmatite
<SYN>	Syenite	<ARK>	Arkoalic sandstone	<PEG>	Pegmatite
<GRA>	Granite	<WCK>	Graywacke	<LEU>	Leucocratic
<MON>	Monzonite	<CGL>	Conglomerate	<MEL>	Melanocratic
<GRD>	Granodiorite	<SLT>	Siltstone	<UNK>	Unknown Protolith
<APL>	Aplite	<ARG>	Mudstone-argillite	<UMF>	Ultramafic
<FEL>	Felsite	<EXH>	Chert/exhalite	<MAF>	Mafic
<QDI>	Quartz Diorite	<QIF>	Silicate IF	<AND>	Andesite
<GAB>	Gabbro	<OIF>	Oxide IF	<DAC>	Dacite
<NOR>	Norite	<SIF>	Sulphide IF	<RYD>	Rhyodacite
<ANT>	Anorthosite	<CIF>	Carbonate IF	<RHY>	Rhyolite
<DIO>	Diorite	<SHA>	Shale	<SCL>	Sulphide Clasts
		<LST>	Limestone	<RWV>	Reworked Volcanic Debris

FALCONBRIDGE LIMITED  
DRILL HOLE RECORD

DATE: 03/27/2000  
IMPERIAL UNITS: METRIC UNITS: X

HOLE NUMBER: MAN24-15

PROJECT NAME: 8296 PLOTTING COORDS GRID: UTM ALTERNATE COORDS GRID: Grid COLLAR DIP: -60° 0' 0"  
 PROJECT NUMBER: 8296 NORTH: 5407499.00N NORTH: 103+ 0 LENGTH OF THE HOLE: 720.00M  
 CLAIM NUMBER: Lease #446103 EAST: 500288.00E EAST: 100+33 START DEPTH: 0.00M  
 LOCATION: Placer Dome Option ELEV: 290.00 ELEV: 290.00 FINAL DEPTH: 720.00M

COLLAR ASTRONOMIC AZIMUTH: 200° 0' 0"

GRID ASTRONOMIC AZIMUTH: 20° 0' 0"

DATE STARTED: 10/15/1999  
 DATE COMPLETED: 10/24/1999  
 DATE LOGGED: 10/24/1999

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

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

CONTRACTOR: NDS Drilling  
 CASING: left in hole - 2m.  
 CORE STORAGE: Kidd Minesite  
 UTM COORD.:

COMMENTS : Targeted downplunge extent of Jonsmith Horizon Failed to intersect horizon - 7/6 Intrusives  
 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
17.00	205° 0' 0"	-60°30' 0"	S	OK		-	-	-	-	-	-
77.00	206° 0' 0"	-61° 0' 0"	S	OK		-	-	-	-	-	-
137.00	189° 0' 0"	-62° 0' 0"	S		Magnetics?	-	-	-	-	-	-
197.00	222° 0' 0"	-62° 0' 0"	S	OK		-	-	-	-	-	-
257.00	217° 0' 0"	-63° 0' 0"	S	OK		-	-	-	-	-	-
317.00	221° 0' 0"	-63°30' 0"	S	OK		-	-	-	-	-	-
377.00	202° 0' 0"	-63°30' 0"	S		Magnetics?	-	-	-	-	-	-
437.00	207° 0' 0"	-64° 0' 0"	S		Magnetics?	-	-	-	-	-	-
497.00	199° 0' 0"	-63° 0' 0"	S		Magnetics?	-	-	-	-	-	-
557.00	221° 0' 0"	-66° 0' 0"	S		Magnetics?	-	-	-	-	-	-
617.00	236° 0' 0"	-63° 0' 0"	S	OK		-	-	-	-	-	-
677.00	238° 0' 0"	-62°30' 0"	S	OK		-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-
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-	-	-	-	-	-	-	-	-	-	-	-

FROM TO	ROCK TYPE	TEXTURE AND STRUCTURE	ANGLE TO CA	ALTERATION	MINERALIZATION	REMARKS
0.00 TO 1.75	<{ob}>	OVERBURDEN				
1.75 TO 100.60	<1,a,R>	<p>POLYSUTURED ULTRAMAFIC VOLCANIC</p> <p>-Black, fine grained ultramafic. Frequent lizardite/chrysotile/carbonate veins. Frequent curved polysutures.</p> <p>1.75-9.00 Polysutured black ultramafic with white talc/carbonate flecks and minor white feldspar flecks.</p> <p>9.00-9.50 Pale gray-green fractured ultramafic. Quite hard, does not fizz with 15% HCl.</p> <p>9.50-22.70 Black to dark brown, polysutured ultramafic volcanic. 5% intercumulate feldspar.</p> <p>22.70-25.55 Pale gray, fractured ultramafic. some polysutures visible. Band of pink, round garnets in coarse calcite vein.</p> <p>25.55-35.90 Black-dark gray ultramafic volcanic. Polysutured with sub cm long fractures normal to polysuture.</p> <p>35.90-41.75 White to spotty gray bleached ultramafic. Polysutures visible.</p> <p>41.75- 51.25 Black, polysutured ultramafic volcanic with serpentinite veins. Local talcy patches.</p> <p>51.25-53.65 Gray, fractured, talc-carb altered, polysutured ultramafic volcanic. Local talc-carb stockwork patches.</p> <p>53.65-59.05 Gray fractured and stockworked, polysutured ultramafic volcanic. Patches of talc-carb stockwork.</p> <p>59.05-63.95 Black, polysutured ultramafic volcanic. Fine grained, x-stals compact, Px/Ol?</p>		<p>Weak pervasive carbonate alteration. Serpentinite veins 1-50mm in fractures and polysutures.</p> <p>-Strong bleaching with minor serpentization.</p> <p>-Strong bleaching with carbonate veining.</p> <p>-Moderate to strong bleaching.</p> <p>-Strong carb alteration in veins along fractures and in stockwork (between flows?). Pervasive bleaching (not talc-carb).</p> <p>-Fracture and stockwork carbonate alteration. Strong bleaching, with pink colouring (garnets?)</p> <p>-Fine serpentinite veins. Slightly greasy light talc-carb alteration.</p> <p>-Strong carbonatization grading to bleaching and back.</p> <p>-Serpentinite veins, weak, pervasive talc/carb alteration.</p> <p>-Carbonate stockwork. Strong, patchy bleaching.</p> <p>-Pervasive and fracture controlled carbonatization. Increasing hardness and milky appearance to lower contact. (silicification).</p>	<p>Fine, disseminated, compact, anhedral pyrite around 1%.</p>	<p>Mag sus of unit ranges from 30-45 MSU for fresh, talc/carb and carbonatized units. Hard bleached core has mag sus 10-20 MSU.</p>

FROM TO	ROCK TYPE	TEXTURE AND STRUCTURE	ANGLE TO CA	ALTERATION	MINERALIZATION	REMARKS
		63.95-65.35 Light gray, fractured, polysutured ultramafic.				
		65.35-74.25 Black, polysutured ultramafic volcanic.				
		74.25-87.25 Light gray, fractured and stockworked, polysutured ultramafic.				-Broken core, 30 cm missing between core block 74 and 77m
		87.25-100.60 Gray, polysutured ultramafic volcanic.				-Lower contact sharp with strong silicification and quartz fracture filling.
100.60 TO 108.85	<7, a, m>	FINE GRAINED FELDSPAR-PHYRIC MAFIC INTRUSIVE -Dark brown to gray in colour, massive with occasional plagioclase phenocrysts.		Strong silicification throughout. -Silicified and glassy looking. -White chrysotile, talc and carbonate with strong silicification at lower contact.		Unit has very low to negligible mag sus (0.00-0.20).
		100.60-101.45 Gray-brown massive mafic intrusive.				
		101.45-102.10 White-gray ultramafic xenolith.		-Pervasive moderate silicification and patchy weak potassic or hematitic (pinkish colouring) alteration.		
		102.10-108.85 Gray, massive mafic intrusive.				
108.85 TO 141.00	<6, a, m>	PERIDOTITE -Black, massive, nearly pure olivine. Crystals sub mm scale, form black to brown-green potatoes. -Occasional irregular steely magnetite flecks visible. -Locally 5% pale gray intercumulate feldspar. -Obscure lower contact.				Mag sus ranges from 45-90 MSU
141.00 TO 188.55	<1, a, R, V>	POLYSUTURED ULTRAMAFIC VOLCANIC -Spinifex textures visible with black bladed x-stals. Polysutures frequent, spaced 30-50 cm apart. Similar in mineralogy to both intrusive and extrusive ultramafic rocks up-hole. 141.00-150.80 Polysutured, occasionally spinifex textured ultramafic volcanic. Lizard skin texture-low core angle fractures cutting scaly		-Strong carbonatization and		

FROM TO	ROCK TYPE	TEXTURE AND STRUCTURE	ANGLE TO CA	ALTERATION	MINERALIZATION	REMARKS
		olivine cumulate texture.		silicification.		
		150.80-151.20 Light gray ultramafic volcanic.		-Weak talc/carb alteration, pervasive and stockwork carbonatization.		
		151.20-165.20 Black-gray ultramafic volcanic. Spinifex texture, scaly altered olivines, and polysutures.		-Pervasive, strong silicification.		
		165.20-170.40 White-gray blotchy polysutured ultramafic volcanic. Gradational upper contact sharp lower contact.		-Frequent thin white chrysotile/talc veins at high angle TCA. Pervasive weak talc/carb alteration. -Strong, hard carb-free bleaching.		
		170.40-180.35 Black polysutured ultramafic volcanic.		-Strong carbonatization.		
		180.80-181.30 Light gray, hard altered ultramafic.				
		181.30-188.55 Light gray, softer, fractured ultramafic volcanic.				
188.55 TO 352.27	«7, c, <GAB>	PYROXENE GABBRO		-pervasive weak chlorite alteration	-no visible sulphides	Unit has average 0.40 MSU.
		-40% milky feldspar, 60% hornblende (after pyroxene). Massive and coarse grained.				
		188.55-196.85 Taupe gabbro with enclaves of, fine grained, highly magnetic, black ultramafic volcanic(?).				
		196.85-208.00 Fine grained mafic intrusive. Locally feldspar rich, locally medium grained.				
		208.00-352.27 Coarse gabbro. Occasional sheaths of bladed crystals to 1cm long. At times narrow sharply defined fine grained mafic dykes.				
		351.47-351.75 Fine grained medium green mafic dyke? with sharp contacts trending 50 deg to CA. No chill margins evident				
		-lower unit contact sharp but highly irregular and marked by 3-4cm fine grained chill margin within the gabbro				



FROM TO	ROCK TYPE	TEXTURE AND STRUCTURE	ANGLE TO CA	ALTERATION	MINERALIZATION	REMARKS
352.27 TO 377.00	<1, a, R>	<p>POLYSUTURED ULTRAMAFIC VOLCANIC</p> <p>-fine grained grey-black massive to flow textured? polysutured ultramafic volcanic</p> <p>-unit consists of 60% black oval amphibole (pseudomorphed olivine) and black bladed pyroxene within a 40% grey feldspar matrix</p> <p>-flow texture? characterized by preferred alignment of minerals at 30-40 deg to CA</p> <p>-unit locally contains irregular grey-green veins of feldspar? and magnetite</p> <p>352.27-353.42 Fine grained massive medium green mafic dyke? Lower contact is gradational suggesting this unit may not be a dyke but perhaps reflecting zoning? within the ultramafic</p> <p>-lower unit contact gradational</p>		-no distinct alteration evident	-no visible sulphides present -nil to 3% magnetite	-Mag. suscept. within the mafic dyke ranges from 0.33-2.64 -Mag. suscept. within the ultramafic volcanic ranges from 30.6-41.4 -Mag. suscept. within the feldspar-magnetite veins is up to 150
377.00 TO 411.70	<6, a, m>	<p>PERIDOTITE</p> <p>-fine grained black massive peridotite</p> <p>-unit consists of 95% black amphibole (pseudomorphed olivine) and 5% grey feldspar</p> <p>-polysutures and flow texture are not present</p> <p>-unit is cut by numerous wispy green serpentine and tan crysotile veins and veinlets trending 30-45 deg to CA. Strong mineral lineations are present on serpentine vein surfaces</p> <p>410.70-411.70 &lt;FAI&gt; Fault zone/gouge.</p> <p>-lower unit contact crushed</p>		-no distinct alteration evident	-no visible sulphides present -3% magnetite	-Mag. suscept.: 38.0-55.3
411.70 TO 418.10	<7, a, m, D>	<p>FINE GRAINED FELDSPAR-PHYRIC MAFIC INTRUSIVE</p> <p>-fine grained massive medium green feldspar-phyric mafic intrusive</p>		-moderate to strong pervasive silicification	-no visible sulphides	-Mag. suscept.: 0.20

FROM TO	ROCK TYPE	TEXTURE AND STRUCTURE	ANGLE TO CA	ALTERATION	MINERALIZATION	REMARKS
418.10 TO 422.45	<1,a,R>	<p>-white feldspar phenocrysts comprise &lt;2% of the unit, are poorly developed crystals and are &lt;1mm in diameter</p> <p>-massive to locally insitu-brecciated</p> <p>417.00-417.63 Moderate to intense white bleaching. Lower 15 cm appears to be mylonitic and trending a 20 deg to CA</p> <p>417.63-417.83 &lt;PAI&gt; Fault zone? (highly broken core)</p> <p>CALCITIC POLYSUTURED ULTRAMAFIC VOLCANIC</p> <p>-fine grained massive grey-black strongly calcitic polysutured ultramafic volcanic</p> <p>-this unit is distinct in that its composition is highly variable. At times there are sections of massive black ultramafic to sections consisting of dominantly light grey feldspar with lesser black amphibole (pseudomorphed olivine) and calcite to equal portions of feldspar and amphibole (pseudomorphed olivine) masses</p> <p>-lower unit contact sharp at 35 deg to CA</p>		-no distinct alteration evident	-no visible sulphides -3-5% disseminated magnetite	-Mag. suscept.: 36.1-72.5
422.45 TO 432.93	<6,a,m>	<p>PERIDOTITE?</p> <p>-fine grained massive brown-black peridotite? with numerous diffuse masses (fragments) of light grey feldspar, and rarely m.g. potassically altered amphibole (pseudomorphed olivine)-feldspar</p> <p>-many of the light grey masses are oval shaped &lt;0.5 cm to 3cm by &lt;0.5 cm. These masses are preferentially aligned at 50 deg to CA</p> <p>-lower unit contact sharp at 40 deg to CA</p>		-pervasive weak talc-chlorite alteration particularly evident in the feldspar masses	-no visible sulphides -3-5% disseminated magnetite	-Mag. suscept.: 33.8-84.3
432.93 TO 440.60	<1,a,R>	<p>CALCITIC POLYSUTURED ULTRAMAFIC VOLCANIC</p> <p>-as above in 418.10-422.45</p>		-pervasive weak talc-chlorite	-no visible sulphides -3-5% disseminated magnetite	-Mag. suscept.: 43.6-105.0

HOLE NUMBER: MAN24-15

## DRILL HOLE RECORD

DATE: 03/27/2000

FROM TO	ROCK TYPE	TEXTURE AND STRUCTURE	ANGLE TO CA	ALTERATION	MINERALIZATION	REMARKS
440.60 TO 475.00	<6, a, m>	<p>-gneissic-like flow? layering at 437.40 is trending 55 deg to CA. Layering is present throughout most of unit</p> <p>-lower unit contact gradational</p> <p>PERIDOTITE</p> <p>-fine grained massive brown-black to green-black peridotite</p> <p>-as above in 377.00-411.70</p> <p>-strong mineral lineations on fracture surfaces</p> <p>‡445.50-446.0‡&lt;FAI‡&gt; Fault zone? (highly broken core)</p> <p>451.30 1-2cm fault gouge</p> <p>-Highly broken core over 5-15cm sections present at 454.00, 454.50, 455.00, 455.80, 456.40, 457.17, 458.00, 459.40, 460.50, 460.65, 460.75, 461.35, 461.50, 462.00, 466.20, 470.00, 470.75</p> <p>‡473.00-475.00‡&lt;FAI‡&gt; Fault zone/gouge</p> <p>-lower unit contact sharp at 50 deg to CA</p>		-no distinct alteration evident	-no visible sulphides -3-4% disseminated magnetite	-Mag. suscept.: 32.5-57.9
475.00 TO 479.75	<7, a, m, D>	<p>FINE GRAINED FELDSPAR-PHYRIC MAFIC INTRUSIVE</p> <p>-as above in 411.70-418.10</p> <p>-numerous haphazard micro-fractures present throughout the unit</p> <p>-talcy on fracture surfaces</p> <p>-lower unit contact broken</p>		-strongly silicified and bleached	-no visible sulphides	-Mag. suscept.: 0.15
479.75 TO 499.85	<1, a, R>	<p>CALCITIC POLYSUTURED TO BRECCIATED ULTRAMAFIC VOLCANIC</p> <p>-as above in 418.10-422.45</p>		-strong calcite alteration throughout	-no visible sulphides -3-5% disseminated magnetite	-Mag. suscept.: 66.7-79.2

HOLE NUMBER: MAN24-15

DRILL HOLE RECORD

LOGGED BY: C. Wright, D.B. Stevenson

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FROM TO	ROCK TYPE	TEXTURE AND STRUCTURE	ANGLE TO CA	ALTERATION	MINERALIZATION	REMARKS
		479.75-483.26 fine to medium grained massive grey-black strongly calcitic polysutured ultramafic volcanic		-strongly silicified	-trace to 1% very fine disseminated pyrrhotite and locally 10-15% magnetite	-Mag. suscept. in breccia zone varies from 39.6 to 365.0 (mt!)
		483.26-492.56 fine grained light to dark grey-black strongly calcitic ultramafic breccia. Fragments are highly variable in size (<0.5cm to >5cm) and shape and are sub-rounded. They consist of very fine grained white to light grey fragments with amphibole (oval olivine/bladed pyroxene) phenocrysts and fine grained massive green-grey mafic intrusive. The matrix is comprised of a medium to dark grey-black strongly calcitic ultramafic material. Locally strong insitu-brecciation. Upper and lower contacts sharp at 50-60 deg to CA				-Mag. suscept.: 54.8-175.0
		492.56-499.85 fine to medium grained massive grey-black strongly calcitic polysutured ultramafic volcanic				
		-lower unit contact abruptly gradational				
499.85 TO 509.50	<6, a, m>	PERIDOTITE		-no distinct alteration evident	-no visible sulphides	-Mag. suscept.: 17.3-149.0
		-fine grained massive black peridotite				
		-unit consists of 95% black amphibole (pseudomorphed olivine) and 5% light grey feldspar				
		-unit is occasionally cut by thin (<1mm) wispy veinlets of chrysotile trending 10 and 50 deg to CA				
		-unit has poor RQD's (frequently broken core)				
		502.10-502.85 [FAI] Fault zone (highly broken core)				
		-strong mineral lineations on fracture surfaces				
		-lower unit contact sharp at 45 deg to CA. No chill margin evident.				

FROM TO	ROCK TYPE	TEXTURE AND STRUCTURE	ANGLE TO CA	ALTERATION	MINERALIZATION	REMARKS
509.50 TO 548.15	<1,a,R>	<p>CALCITIC POLYSUTURED ULTRAMAFIC VOLCANIC</p> <p>-as above in 418.10-422.45</p> <p>-unit occasionally cut by white calcite veins &lt;0.5cm in width</p> <p>-fine grained medium green mafic dyking (fragments?) present at 519.90-519.95, 521.71-521.81, 523.15-523.32, 524.75-525.00, 526.05-526.15, 530.20-520.36, 531.53-531.82, 533.52-533.65, 534.00-534.13, 534.28-534.45, 534.57-534.78. Contacts of all dykes? are highly irregular. They are at times sharp but they can also be diffuse suggesting they are synvolcanic with the ultramafic</p> <p>-lower unit contact gradationally abrupt at 40 deg to CA</p>		-pervasive strong calcite alteration	<p>-trace disseminated pyrite in mafic dykes</p> <p>-no visible sulphides in ultramafic volcanic</p> <p>-3-10% disseminated to intercumulate magnetite</p>	<p>-Mag. suscept. within mafic dykes?: 26.5-41.1</p> <p>-Mag. suscept. within ultramafic volcanic: 17.9-146.0</p>
548.15 TO 552.48	<7,a,m>	<p>FINE GRAINED MAFIC INTRUSIVE</p> <p>-fine grained massive light to medium green-grey mafic intrusive</p> <p>-feldspar phenocryst are not present</p> <p>-occasionally cut by &lt;0.5cm white calcite veins trending 45 deg to CA</p> <p>-lower unit contact gradationally abrupt at 45 deg to CA</p>		<p>-pervasive weak to strong calcite alteration</p> <p>-locally strongly bleached</p>	-no visible sulphides	-Mag. suscept.: 0.31-0.46
552.48 TO 554.30	<1,a,R>	<p>CALCITIC POLYSUTURED ULTRAMAFIC VOLCANIC</p> <p>-as above in 418.10-422.45</p> <p>-lower unit contact sharp at 10-20 deg to CA. Possible thin (2-4mm) chill margin.</p>		-pervasive weak to strong calcite alteration	-no visible sulphides	-Mag. suscept.: 32.3
554.30 TO 577.77	<6,a,m>	<p>PERIDOTITE</p> <p>-fine grained massive black peridotite</p> <p>-as above in 499.85-509.50</p>		<p>-pervasive strong silicification</p> <p>-weak talc-chlorite alteration</p>	<p>-no visible sulphides</p> <p>-3-5% to locally 10% disseminated and intercumulate magnetite</p>	-Mag. suscept.: 39.6-79.9

FROM TO	ROCK TYPE	TEXTURE AND STRUCTURE	ANGLE TO CA	ALTERATION	MINERALIZATION	REMARKS
577.77 TO 720.00	<7,c,<GAB>	<p>554.30-567.00 This section is cut by frequent (5-15/m) serpentine veins and veinlets trending 10 to 70 deg to CA. The veins and veinlets are &lt;0.5cm in width. Locally brecciated.</p> <p>567.00-577.77 Section is rarely cut by thin serpentine veins and veinlets. Section appears lighter grey-black than previous section (weakly bleached?)</p> <p>-lower unit contact diffuse but trends at 60 deg to CA</p> <p>PYROXENE GABBR0</p> <p>-medium to coarse grained massive equigranular dark green pyroxene gabbro</p> <p>-as above in 188.55-352.27</p> <p>577.77-578.80 Gabbroic texture poorly developed (chilled?). Contains &lt;5% clots of dark grey-green amphibole? Clots are 2-4mm in diameter.</p> <p>578.80-602.75 Medium grained pyroxene gabbro. Unit is cut by numerous thin (&lt;1cm) to thick (&lt;10cm) fine grained dark green mafic dykes generally trending 30-70 deg to CA.</p> <p>580.40-580.72 Fine grained mafic dyke with trace disseminated chalcopyrite. Upper and lower contacts sharp at 20 and 45 deg to CA, respectively.</p> <p>584.00-584.30 Strongly fractured core</p> <p>585.60-586.00 Strongly fractured core</p> <p>591.50-591.70 Highly broken core</p> <p>595.70-595.90 Fine grained massive dark green mafic dyke with 2-4% stringer pyrrhotite and trace-1% stringer chalcopyrite. Upper and lower contacts sharp at 50 and 30 deg to CA, respectively</p>		<p>-pervasive weak chlorite alteration</p> <p>-locally weak to moderate silicification</p>	<p>-no visible sulphides</p> <p>-trace chalcopyrite</p> <p>-2-4% stringer pyrrhotite and trace-1% stringer chalcopyrite</p>	<p>-Mag. suscept. in gabbro: 0.19-0.43</p> <p>-Mag. suscept. in mafic dykes: 0.40-1.15</p>

FROM TO	ROCK TYPE	TEXTURE AND STRUCTURE	ANGLE TO CA	ALTERATION	MINERALIZATION	REMARKS
		602.75-687.20 Medium grained massive equigranular pyroxene gabbro. Occasional thin (<1cm) to thick (<10cm) fine grained massive chloritic mafic dykes. Dykes tend to have abrupt but diffuse contacts and trending 30-60 deg to CA. Unit is rarely cut by thin (<2cm) white barren quartz-calcite veins trending 30-50 deg to CA.				
		602.75-609.10 Strongly fractured				
		‡628.37-628.87‡«- FAI » Fault breccia with barren white quartz veins. Strongly fractured and broken.				
		663.37-663.67 Highly broken core				
		‡664.00-664.30‡«- FAI » Fault zone. Highly broken core				
		667.50-668.00 Highly broken core				
		669.05-669.35 Fine grained mafic dyke. Upper and lower contacts sharp at 30 and 60 deg to CA, respectively. Highly broken core				
		669.90-670.00 Fine grained mafic dyke. Highly broken core				
		670.55-671.25 Highly broken core				
		682.67-682.75 Fine grained massive dark green mafic dyke with 1-2% pyrrhotite and 1% chalcopyrite. Upper and lower contact at 60 deg to CA				1-2% disseminated to stringer pyrrhotite and 1% disseminated to stringer chalcopyrite
		685.75-686.10 Fine grained massive dark green mafic dyke with 1-2% pyrrhotite and trace to 1% chalcopyrite. Upper contact at 20 deg to CA, lower contact broken core				-1-2% disseminated to stringer pyrrhotite and trace-1% disseminated to stringer chalcopyrite
		687.20-720.00 Fine grained massive equigranular pyroxene gabbro. Unit is frequently cut by thin (<1cm) to thick (<15cm) fine grained massive dark green mafic dykes to veins which at times contain 1-2% pyrrhotite and trace-1% chalcopyrite				-1-2% disseminated to stringer pyrrhotite to trace-1% disseminated to stringer chalcopyrite

HOLE NUMBER: MAN24-15

DRILL HOLE RECORD

DATE: 03/27/2000

FROM TO	ROCK TYPE	TEXTURE AND STRUCTURE	ANGLE TO CA	ALTERATION	MINERALIZATION	REMARKS
720.00 TO 720.00	«B.O.H.»	697.05-697.67 «FAI» Fault zone? (highly broken core)  709.90-710.25 «FAI» Fault zone? (highly broken core)				-127 BQ boxes

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DRILL HOLE RECORD

LOGGED BY: C. Wright, D.B. Stevenson

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HOLE NUMBER : MAN24-15

GEOCHEMICAL ASSAY

DATE: 27/03/2000

Sample	From (M)	To (M)	Leng. (M)	SiO2 %	Al2O3 %	CaO %	MgO %	Na2O %	K2O %	Fe2O3 %	TiO2 %	P2O5 %	MnO %	CR2O3 %	LOI %	SUM %	Y PPM	ZR PPM	BA PPM	CU PPM	ZN PPM	NI PPM	CR PPM	FIELD NAME	CHEM ID	ALUM
KA03839	14.00	17.00	3.00	36.03	2.52	1.46	38.18	0.01	0.02	8.84	0.12	0.02	0.14		12.04	99.38	<5	10		25	45	2285	3510	1,a,R	1Ll	169
KA03840	53.00	56.00	3.00	35.89	1.53	26.94	17.27	0.06	0.03	6.13	0.07	0.01	0.13		11.17	99.23	<5	10		135	50	1375	1680	1,a,R	1Hl	6
KA03841	89.00	92.00	3.00	36.65	2.55	2.92	33.60	0.02	0.02	13.90	0.13	0.02	0.14		9.48	99.43	<5	10		25	10	2195	2815	1,a,R	1Ll	86
KA03842	104.00	107.00	3.00	53.07	15.95	11.46	3.68	3.13	2.98	6.29	0.64	0.21	0.26		1.86	99.53	5	100		35	15	55	145	7,a,m	8j	91
KA03843	140.00	143.00	3.00	37.10	2.82	2.01	36.97	0.01	0.06	9.49	0.13	0.01	0.14		10.68	99.42	<5	10		<5	<5	1660	2640	1,a,R	1Ll	136
KA03844	166.00	169.00	3.00	41.63	17.90	18.27	9.56	0.73	0.29	8.00	0.34	0.02	0.16		2.58	99.48	<5	20		40	25	225	1330	1,a,R	4(h)A	93
KA03845	191.00	194.00	3.00	57.26	12.52	11.92	3.50	3.98	0.37	8.04	1.34	0.18	0.25		0.37	99.73	50	140		10	20	45	140	7,a	,7h	77
KA03846	224.00	227.00	3.00	52.10	12.96	10.26	4.45	2.65	0.56	14.89	1.19	0.10	0.22		0.47	99.85	25	80		<5	45	35	125	7,c	7(h)v	96
KA03849	352.27	353.42	1.15	48.78	7.10	13.32	15.22	0.87	0.38	11.34	0.27	0.05	0.20		1.87	99.40	10	20		<5	50	635	2310	7,a,m	6H	49
KA03850	362.00	365.00	3.00	42.28	3.91	3.34	31.96	0.11	0.51	8.11	0.18	0.03	0.14		8.79	99.36	5	10		<5	60	1675	2240	1,a,R	1Ll	99
KA04464	401.00	404.00	3.00	33.54	2.45	0.04	41.54	0.02	0.02	8.67	0.12	0.03	0.10		12.51	99.04	<5	10		<5	15	2155	3125	6,a,m	6Ml	3063
KA04465	413.00	416.00	3.00	51.60	18.55	6.67	3.08	3.12	6.56	7.76	0.74	0.22	0.17		1.22	99.69	15	110		<5	30	20	110	7,a,m	8i	113
KA04466	425.00	428.00	3.00	35.18	2.05	0.20	40.14	0.02	0.02	8.92	0.10	0.03	0.17		12.60	99.43	<5	10		<5	20	2215	1695	6,a,m	6Ml	854
KA04467	476.00	479.00	3.00	58.47	16.93	4.94	2.67	5.09	2.36	7.02	0.67	0.21	0.11		1.05	99.52	15	100		<5	40	15	90	7,a,m,D	8(j)	137
KA04468	486.00	489.00	3.00	27.59	2.05	28.38	13.85	0.05	0.02	8.28	0.10	0.04	0.34		18.30	99.00	10	10		60	25	935	4925	1,a,R	1Hl	7
KA04469	503.00	506.00	3.00	36.81	2.12	0.15	39.37	0.01	0.01	8.43	0.10	0.02	0.14		12.17	99.33	<5	10		<5	20	2015	1515	6,a,m	6Ll	1247
KA04470	515.00	518.00	3.00	33.76	2.40	14.36	28.08	0.02	0.06	7.20	0.11	0.02	0.16		13.20	99.37	<5	10		<5	20	1810	1385	1,a,R	1Ll	17
KA04471	533.00	536.00	3.00	38.54	3.65	23.87	18.15	0.07	0.05	8.85	0.16	0.04	0.27		5.52	99.17	10	10		215	170	1190	2145	7,a,m,D	6J	15
KA04472	548.15	551.15	3.00	43.77	11.05	17.36	11.14	0.46	0.07	12.40	0.34	0.04	0.33		2.33	99.29	10	20		<5	55	450	2550	7,a,m	6H	62
KA04473	572.00	575.00	3.00	42.53	4.04	3.72	29.33	0.09	0.05	11.60	0.18	0.05	0.14		7.52	99.25	5	10		<5	55	905	2940	6,a,m	6L	105
KA04474	605.00	608.00	3.00	54.67	12.45	8.66	5.37	2.20	0.45	13.00	0.95	0.10	0.20		1.66	99.71	20	60		<5	65	35	95	7,c,<GAB>	7hv	110
KA04475	638.00	641.00	3.00	55.44	12.75	7.85	5.30	2.00	0.73	12.88	0.96	0.10	0.22		1.55	99.78	25	60		<5	65	55	90	7,c,<GAB>	7hv	121
KA04476	671.00	674.00	3.00	55.41	13.12	9.24	5.81	1.53	0.55	11.65	0.86	0.08	0.20		1.33	99.78	15	50		<5	60	50	115	7,c,<GAB>	7(h)v	116
KA04477	713.00	716.00	3.00	54.93	13.86	9.98	5.64	1.66	0.43	10.87	0.73	0.08	0.18		1.20	99.56	20	50		35	75	80	290	7,c,<GAB>	7hv	115

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GEOCHEMICAL ASSAYS

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Sample	From (M)	To (M)	Leng. (M)	RB PPM	SR PPM	CO2 %	AG PPM	AU PPB	CO PPM	PB PPM	S %	V PPM	AS PPM	SN PPM	CD PPM	SB PPM	BI PPM	SE PPM	HF PPM	TA PPM	W PPM	MO PPM	TH PPM	U PPM	B PPM	CS PPM	LA PPM	CE PPM	ND PPM
KA03839	14.00	17.00	3.00						85		0.03	60																	
KA03840	53.00	56.00	3.00						70		0.30	40																	
KA03841	89.00	92.00	3.00						90		0.15	65																	
KA03842	104.00	107.00	3.00						15		0.08	80																	
KA03843	140.00	143.00	3.00						90		0.05	60																	
KA03844	166.00	169.00	3.00						50		<0.01	165																	
KA03845	191.00	194.00	3.00						30		<0.01	85																	
KA03846	224.00	227.00	3.00						55		<0.01	340																	
KA03849	352.27	353.42	1.15						55		<0.01	115																	
KA03850	362.00	365.00	3.00						65		0.03	75																	
KA04464	401.00	404.00	3.00						80		0.02	50																	
KA04465	413.00	416.00	3.00						20		<0.01	90																	
KA04466	425.00	428.00	3.00						95		0.05	45																	
KA04467	476.00	479.00	3.00						25		<0.01	85																	
KA04468	486.00	489.00	3.00						65		0.08	50																	
KA04469	503.00	506.00	3.00						75		0.02	45																	
KA04470	515.00	518.00	3.00						85		0.07	50																	
KA04471	533.00	536.00	3.00						75		0.16	70																	
KA04472	548.15	551.15	3.00						80		<0.01	145																	
KA04473	572.00	575.00	3.00						80		0.03	80																	
KA04474	605.00	608.00	3.00						40		<0.01	255																	
KA04475	638.00	641.00	3.00						40		<0.01	265																	
KA04476	671.00	674.00	3.00						40		<0.01	240																	
KA04477	713.00	716.00	3.00						40		0.09	205																	

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GEOCHEMICAL ASSAYS

DATE: 27/03/2000

Sample	From (M)	To (M)	Leng. (M)	SM PPM	EU PPM	GD PPM	DY PPM	ER PPM	LU PPM	OS PPB	IR PPB	RU PPB	RH PPB	PT PPB	PD PPB	LI PPM	BE PPM	MN PPM	GA PPM	GE PPM	IN PPM	TL PPM	SC PPM	BR PPM	MGO#	CA/AL	NI/MGO	ISHIKW	ZN/NA2
KA03839	14.00	17.00	3.00														<5						10		0.92	0.58	60	96	4500
KA03840	53.00	56.00	3.00														<5						5		0.88	17.61	80	39	833
KA03841	89.00	92.00	3.00														<5						10		0.86	1.15	65	92	500
KA03842	104.00	107.00	3.00														5						10		0.58	0.72	15	31	5
KA03843	140.00	143.00	3.00														<5						10		0.91	0.71	45	95	500
KA03844	166.00	169.00	3.00														<5						30		0.74	1.02	24	34	34
KA03845	191.00	194.00	3.00														5						35		0.51	0.95	13	20	5
KA03846	224.00	227.00	3.00														5						40		0.41	0.79	8	28	17
KA03849	352.27	353.42	1.15														<5						20		0.77	1.88	42	52	57
KA03850	362.00	365.00	3.00														<5						10		0.91	0.85	52	90	545
KA04464	401.00	404.00	3.00														<5						10		0.93	0.02	52	100	750
KA04465	413.00	416.00	3.00														5						10		0.48	0.36	6	50	10
KA04466	425.00	428.00	3.00														<5						5		0.92	0.10	55	99	1000
KA04467	476.00	479.00	3.00														5						10		0.47	0.29	6	33	8
KA04468	486.00	489.00	3.00														<5						10		0.80	13.84	68	33	500
KA04469	503.00	506.00	3.00														<5						10		0.92	0.07	51	100	2000
KA04470	515.00	518.00	3.00														<5						10		0.91	5.98	64	66	1000
KA04471	533.00	536.00	3.00														<5						10		0.84	6.54	66	43	2429
KA04472	548.15	551.15	3.00														<5						25		0.68	1.57	40	39	120
KA04473	572.00	575.00	3.00														<5						10		0.86	0.92	31	89	611
KA04474	605.00	608.00	3.00														5						30		0.49	0.70	7	35	30
KA04475	638.00	641.00	3.00														5						35		0.49	0.62	10	38	33
KA04476	671.00	674.00	3.00														5						35		0.54	0.70	9	37	39
KA04477	713.00	716.00	3.00														5						30		0.55	0.72	14	34	45

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GEOCHEMICAL ASSAYS

DATE: 27/03/2000

Sample	From (M)	To (M)	Leng. (M)	YB PPM	NB PPM
KA03839	14.00	17.00	3.00		<10
KA03840	53.00	56.00	3.00		<10
KA03841	89.00	92.00	3.00		<10
KA03842	104.00	107.00	3.00		<10
KA03843	140.00	143.00	3.00		<10
KA03844	166.00	169.00	3.00		<10
KA03845	191.00	194.00	3.00		10
KA03846	224.00	227.00	3.00		20
KA03849	352.27	353.42	1.15		<10
KA03850	362.00	365.00	3.00		<10
KA04464	401.00	404.00	3.00		<10
KA04465	413.00	416.00	3.00		<10
KA04466	425.00	428.00	3.00		<10
KA04467	476.00	479.00	3.00		<10
KA04468	486.00	489.00	3.00		<10
KA04469	503.00	506.00	3.00		<10
KA04470	515.00	518.00	3.00		<10
KA04471	533.00	536.00	3.00		<10
KA04472	548.15	551.15	3.00		<10
KA04473	572.00	575.00	3.00		<10
KA04474	605.00	608.00	3.00		<10
KA04475	638.00	641.00	3.00		<10
KA04476	671.00	674.00	3.00		<10
KA04477	713.00	716.00	3.00		<10

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FALCONBRIDGE LIMITED  
DRILL HOLE RECORD

DATE: 04/24/2000  
IMPERIAL UNITS: METRIC UNITS: X

HOLE NUMBER: MAN24-16

PROJECT NAME: 8296  
PROJECT NUMBER: 8296  
CLAIM NUMBER: Lease #446103  
LOCATION: Placer Dome Option

PLOTTING COORDS GRID: UTM  
NORTH: 5407372.00N  
EAST: 500301.00E  
ELEV: 290.00

ALTERNATE COORDS GRID: Grid  
NORTH: 101+75  
EAST: 101+ 0  
ELEV: 290.00

COLLAR DIP: -50° 0' 0"  
LENGTH OF THE HOLE: 311.00M  
START DEPTH: 0.00M  
FINAL DEPTH: 311.00M

COLLAR ASTRONOMIC AZIMUTH: 200° 0' 0"

GRID ASTRONOMIC AZIMUTH: 20° 0' 0"

DATE STARTED: 11/02/1999  
DATE COMPLETED: 11/06/1999  
DATE LOGGED: 11/06/1999

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

PULSE EM SURVEY: YES  
PLOGGED: NO  
HOLE SIZE: BQ

CONTRACTOR: NDS Drilling  
CASING: 9m - left in hole.  
CORE STORAGE: Kidd Minesite  
UTM COORD.:

COMMENTS : Failed to intersect HLEM Conductor off-hole at 140m, 40m above and to left  
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
38.00	201° 0' 0"	-50° 0' 0"	S	OK							
98.00	208° 0' 0"	-51° 0' 0"	S	OK							
158.00	216° 0' 0"	-52° 0' 0"	S	OK							
218.00	229° 0' 0"	-51°30' 0"	S	OK							
278.00	206° 0' 0"	-52° 0' 0"	S	OK	Magnetics?						

FROM TO	ROCK TYPE	TEXTURE AND STRUCTURE	ANGLE TO CA	ALTERATION	MINERALIZATION	REMARKS
0.00 TO 6.20	< ob > Overburden	-casing set to 9m due to bad ground				
6.20 TO 18.80	<1,a,1,v> Ultramafic Volcanic, fine-grained, d, flows, olivine spinifex	-dark gray to black -strongly broken core -weak to mod. fol'n defined by spinifex textures at 30-45deg. to CA  -fine-grained ultramafic with macroscopic spinifex textures up to 2mm in diameter throughout -mod. to strongly magnetic -disjointed and bleached polysuturing visible locally -sporadic zones of cumulate textured peridotite		-mod. to strong serpentinization, most evident on fractured surfaces	-nil	
18.80 TO 49.30	<2,a,m> Mafic Volcanic, fine-grained d, massive	-sharp, slightly sheared uphole contact at 30deg. to CA -mod. jointed at 30-60deg. to CA, no significant fol'n developed -fine-grained, glassy textured -weakly amygdular within upper 4-5m of unit -<1% phenocrysts as beige clotty feldspar and black acicular hornblende  -box #5 (27.8-33.5m) missing, dumped at core drop off point -similar units at end of box #4 and start of box #6  #34.7-42.8#<7,b,m> -med. grained, gabbroic? intrusive -sharp but irregular contacts, no visible chill -strong felted, ophitic textures -non-magnetic -identical to gabbroic unit below  -slightly higher phenocryst content with mafic volcanic below gabbro dyke (up to 1%) with euhedral feldspar phenocrysts and randomly oriented acicular hornblende lathes		-weak calcite (pervasive/fractures) to CA -v. weakly silicified	-negligable, tr. Py	

FROM TO	ROCK TYPE	TEXTURE AND STRUCTURE	ANGLE TO CA	ALTERATION	MINERALIZATION	REMARKS
49.30 TO 70.30	<7,b,m,<GAB >> Mafic Intrusive, med. grained, massive, gabbroic	-extremely sharp uphole contact but irregular -undeformed and only v. weakly jointed  -med. grained mafic intrusive, identical to intrusive unit cutting overlying mafic volcanic -strongly felted, ophitic textures but becoming altered/mottled over lowermost 5m of unit -massive overall with minor gash chlorite fracturing  -epidote altered Po vein at low CA angle between 57.4-57.9m (approx. 15 deg. to CA)  -unit becomes strongly mottled over lower 5-6m of unit with carbonate/silica alteration		-weakly altered for most of unit -gash chlorite veining  -epidote altered margins of Po vein at 57.4-57.9m  -strong pervasive to spotty qtz/carb flooding over lower 5-6m of unit  -minor fracture controlled epidote and fuchsite within mottled zone at base of unit	-v. low overall apart from one 2cm wide Po vein between 57.4-57.9m -tr. Cpy exsolved from Po -strong epidote alteration along margins of vein for 1-2cm into wall rock  -similar Po veining at 61.6m but lacks epidote altered margins	
70.30 TO 79.10	<4,a,E Felsic Volcanic, fine-grained, d, chert>	-sharp but veined uphole contact at 45deg. to CA -mod. jointed at 30-45deg. to CA, mod. fol'n at 35 deg. to CA, likely transposed with chert laminations  -glassy, siliceous unit composed primarily of chert with minor rhyolitic clasts/interbeds -strongly albite porphyroblastic over most of unit is likely a contact effect due to gabbroic intrusive above -strong dark, chloritic 'spotting' over most of unit may be altered, devitrified glass/spherulites -lowermost 2m of unit become more easily identifiable as chert/ash-tuff with banding at 30 deg. to CA		-strong glassy, siliceous texture with porphyroblastic albite over most of unit -chlorite altered spherulites? imparting a mottled, wormy appearance -fine-grained pink hematite/carbonate speckling visible sporadically throughout unit	-tr. fracture controlled Py+/-Po  -pink pinkish tinged 'speckling' possibly Sph, but more likely carbonate and/or hematite	
79.10 TO 96.50	<4,bx,E> Felsic Volcanic, breccia, Chert	-sharp but broken uphole contact -mod. fol'n at 40-50deg. to CA visible in zones of more distinctly cherty material -mod. to strongly broken core  -mixed, chaotic unit consisting of rhyolitic/chert breccias and chert/ash-tuffs -in-situ bx'd textures with laminated, fine-grained cherty fragments set in a grainy, chloritic matrix -rhyolite clasts from 2cm to >50cm? are subangular to angular in form and internally laminated		-fairly strongly altered with mod. pervasive silicification and silica veining -mod. to strong chloritization within matrix to breccia -pinkish carbonate speckling apparent within matrix and fragments of unit throughout most of unit -in places this is oxidized to buff/tan colour suggesting carbonate  -wormy qtz/carb veining throughout	-negligable sulphides -pinkish tinged speckling possibly Sph but most likely carbonate	

FROM TO	ROCK TYPE	TEXTURE AND STRUCTURE	ANGLE TO CA	ALTERATION	MINERALIZATION	REMARKS
		<p>-no visible phenocryst content apart from rare porphyroblastic albite</p> <p>-mottled, 'spotty' textured locally, similar to that seen in overlying cherty unit</p> <p>-likely chloritized, devitrified glass</p> <p>-matrix of unit is fairly soft and chloritic with pinkish speckling seen in overlying units (carbonate/Sph??)</p> <p>-laminations (bedding/flow-banding??) where visible are disjointed/irregular due to bx'n but most evident within upper 4-5m of unit at 60 deg. to CA</p> <p>‡80.2-80.4‡*{FAI}‡</p> <p>-broken core with minor gouge</p> <p>-unit becoming slightly more massive over lower 6-7m of unit with decrease in brecciated textures</p>				
96.50 TO 98.40	<p>&lt;7,b,m&gt; Mafic Intrusive, med. grained, massive</p>	<p>-sharp uphole contact at 75deg. to CA</p> <p>-undeformed, weakly jointed</p> <p>-similar gabbroic intrusive as seen uphole</p> <p>-med. grained, felted, ophitic textured</p> <p>-unit becomes mottled over lowermost 1m of unit making contact with underlying felsic unit indeterminate</p> <p>-given repetition of stratigraphy seen below this unit, it is likely that dyke has intruded along fault structure, although no clear evidence of a fault occurs?</p> <p>-repetition possibly due to fault at 80.2m?</p> <p>‡96.5-98.4‡*{FAI}‡</p>		<p>-minor qtz/carb fracturing</p> <p>-minor gash chlorite veining</p> <p>-mottled, qtz/carb flooding over lowermost 1m of unit</p>	-nil, tr. Po	
98.40 TO 131.90	<p>&lt;4,a,bx,E&gt; Felsic Volcanic, fine-grained, breccia, Chert</p>	<p>-indistinct, gradational uphole contact with mottled textured gabbro</p> <p>-weak to mod. jointing at 30-45deg. to CA</p> <p>-interval represents a complete repetition of stratigraphy between 70.3-96.5m</p> <p>-subdivisions as below:</p> <p>98.4-107.5;</p> <p>-siliceous, mottled felsic unit with porphyroblastic albite</p>		<p>-mod. to strong silicification and chloritization as seen in overlying felsic units</p> <p>-minor late qtz/carb veining</p> <p>-vague greenish fuchsite patches within brecciated portions of unit</p>	<p>-tr. Py+/-Po</p> <p>-possibly pinkish Sph within matrix of breccia but most likely carbonate</p> <p>-should show up in WR analysis</p>	



FROM TO	ROCK TYPE	TEXTURE AND STRUCTURE	ANGLE TO CA	ALTERATION	MINERALIZATION	REMARKS
		<p>-most primary textures destroyed -minor choritic 'spotting'</p> <p>107.5-109.6; -well laminated chert/ash-tuff with minor chloritic brecciation -gradational contact with overlying sub-unit -banding at 65deg. to CA</p> <p>109.6-131.9 -mod. to strongly altered rhyolite breccia with angular felsic (chert/rhyolite?) fragments set in a chloritic matrix -less brecciated zones more distinctly cherty in appearance with well defined banding at 40-60deg. to CA -pinkish carbonate/Sph? within matrix to breccia</p>				
131.90 TO 170.90	«2,a,m» Mafic Volcanic, fine-grained, massive	<p>-gradational uphole contact -pale grayish green, no significant fol'n -weakly jointed at 45-90deg. to CA</p> <p>-similar mafic flow as seen between 18.8-49.5m -predominantly aphanitic but with 1-2<math>\frac{1}{2}</math> 1-2mm feldspar phenocrysts -no hornblende/amphibole phenocrysts visible -weakly amygdular with clotty, subrounded qtz/carb filled vesicles -amygdules increase in size and abundance within lower 1-2m of unit</p> <p>-box #25 (140.4-145.8m) and boxes #28 &amp; 29 (157.1-168.4m) missing (dumped at drop-off point) -no change in lithology between boxes 24 &amp; 25 nor between boxes 27 &amp; 30</p>		-weak hairline calcite fractures with minor late qtz/carb veining	-nil, tr. Py/Po	
170.90 TO 311.00	«1,a,l» Ultramafic Volcanic, fine-grained, flows	<p>-dark gray to black -weakly fol'd locally at 45-60deg. to CA -relatively competent core with minor zones of blocky material due to faulting</p> <p>-upper portion of unit, to approx. 185m contains large spinifex/polysutured textures and is moderately bleached/alterd -below 185m unit becomes more massive and cumulate textured and grades into a lighter</p>		<p>-mod. to strong serpentinization throughout most of unit -1-2mm talc/serpentine veinlets at varying CA angles -diffuse patches of pervasive carbonatization in lighter gray coloured intervals</p>	-negligable	

HOLE NUMBER: MAN24-16

DRILL HOLE RECORD

DATE: 04/24/2000

FROM TO	ROCK TYPE	TEXTURE AND STRUCTURE	ANGLE TO CA	ALTERATION	MINERALIZATION	REMARKS
311.00 TO 311.00	*E.O.H.* End-Of-Hole	<p>gray colour -mod. to strongly magnetic</p> <p>‡192.5-192.7‡*{PAI}* -minor gouge, broken and veined core</p> <p>-below 208m colour darkens to get black, as unit becomes more serpentinitized -strongly magnetic throughout</p> <p>-box #36 (202.3-207.9m) missing, dumped at core drop off point -slight change in colour, from dark gray to black between boxes 35 &amp; 37</p> <p>‡242.0-242.3‡*{PAI}* -well developed gouge zone</p> <p>-below 250m unit varies irregularly from lighter gray, cumulate textured material to darker black serpentinite -good core recovery to approx. 300m where unit becomes broken and blocky with weakly developed gouge locally, likely due to fault zone?</p>				

HOLE NUMBER: MAN24-16

DRILL HOLE RECORD

LOGGED BY: Dean Rogers

PAGE: 6

HOLE NUMBER : MAN24-16

ASSAYS SHEET

DATE: 24/04/2000

Sample	From (M)	To (M)	Leng. (M)	Cu ppm	Zn ppm	Pb ppm	Ni ppm	Au ppb	Ag ppm	Cu/Zn	Co ppm	Pt ppb	Pd ppb	S †	Se ppm	As ppm	Hg ppb	Sb ppm	Est. Ni †	Est. Po †	Est. Py †	Est. Cp †	Est. Sp †	Est. Gn †	ROCK TYPE	Comments
AU07827	57.40	57.90	0.50	1000	12	1	130	10	0.2																	

HOLE NUMBER: MAN24-16

ASSAYS SHEET

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HOLE NUMBER : MAN24-16

GEOCHEMICAL ASSAY

DATE: 24/04/2000

Sample	From (M)	To (M)	Leng. (M)	SiO2 %	Al2O3 %	CaO %	MgO %	Na2O %	K2O %	Fe2O3 %	TiO2 %	P2O5 %	MnO %	CR2O3 %	LOI %	SUM %	Y PPM	ZR PPM	BA PPM	CU PPM	ZN PPM	NI PPM	CR PPM	FIELD NAME	CHEM ID	ALUM
AU07770	11.00	14.00	3.00	38.52	2.71	1.61	34.92	<0.01	0.07	10.14	0.12	0.04	0.11		10.53	98.78	5	10		<5	15	1850	4340	1,a,1	1L1	160
AU07771	23.00	26.00	3.00	59.12	15.39	6.31	4.94	4.50	0.82	6.24	0.40	0.18	0.10		1.62	99.62	10	90		50	45	95	340	2,a,m	4JA	132
AU07772	59.00	62.00	3.00	49.15	13.75	13.81	7.85	1.78	0.62	10.05	0.62	0.08	0.21		1.84	99.76	15	50		<5	45	100	295	7,b,m	7(h)u	85
AU07773	71.00	74.00	3.00	71.96	14.57	2.77	2.02	3.55	1.29	1.02	0.57	0.04	0.01		1.53	99.33	5	130		<5	70	30	320	4,a,E	3j	191
AU07774	77.50	78.50	1.00	71.35	14.59	0.35	4.27	0.37	3.07	2.06	0.36	0.12	0.02		3.14	99.70	5	240		<5	25	25	165	4,a,E	4JA	385
AU07775	81.00	83.00	2.00	59.73	15.12	1.13	10.71	0.52	1.21	4.94	0.65	0.12	0.03		5.34	99.50	20	300		<5	25	30	340	4,bx,E	2ju	529
AU07776	92.00	95.00	3.00	57.73	13.13	1.23	12.62	0.49	0.42	7.49	0.67	0.17	0.04		5.34	99.33	25	260		<5	35	40	195	4,bx,E	1H	614
AU07777	119.00	122.00	3.00	55.14	13.21	2.07	11.25	0.90	0.78	10.86	0.54	0.20	0.11		4.50	99.56	65	240		<5	60	30	290	4,bx,E	1H	352
AU07778	152.00	155.00	3.00	50.69	13.69	10.52	9.12	3.42	0.58	8.45	0.65	0.33	0.16		1.85	99.46	15	210		70	65	135	560	2,a,m	2jyB	94
AU07779	188.00	191.00	3.00	42.38	4.86	7.80	26.61	0.20	0.07	11.07	0.21	0.08	0.18		5.91	99.37	5	150		<5	60	665	2715	1,a,1	1L	60
AU07780	215.00	218.00	3.00	34.96	2.81	0.13	36.90	0.03	0.04	11.84	0.13	0.07	0.13		12.10	99.14	<5	150		<5	25	1890	4630	1,a,1	1L1	1405
AU07781	260.00	263.00	3.00	37.21	3.48	4.44	35.55	0.03	0.01	7.59	0.15	0.05	0.16		10.15	98.82	5	140		<5	<5	1840	7075	1,a,1	1L1	78
AU07782	284.00	287.00	3.00	38.61	3.28	4.20	34.91	0.12	0.05	10.12	0.15	0.07	-0.17		7.48	99.16	5	130		<5	45	1975	3305	1,a,1	1L	75

HOLE NUMBER: MAN24-16

GEOCHEMICAL ASSAY

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HOLE NUMBER : MAN24-16

GEOCHEMICAL ASSAYS

DATE: 24/04/2000

Sample	From (M)	To (M)	Leng. (M)	RB PPM	SR PPM	CO2 %	AG PPM	AU PPB	CO PPM	PB PPM	S %	V PPM	AS PPM	SN PPM	CD PPM	SB PPM	BI PPM	SE PPM	HF PPM	TA PPM	N PPM	MO PPM	TH PPM	U PPM	B PPM	CS PPM	LA PPM	CE PPM	ND PPM		
AU07770	11.00	14.00	3.00						115		0.12	115																			
AU07771	23.00	26.00	3.00						30		0.26	150																			
AU07772	59.00	62.00	3.00						35		<0.01	240																			
AU07773	71.00	74.00	3.00						10		<0.01	80																			
AU07774	77.50	78.50	1.00						10		<0.01	55																			
AU07775	81.00	83.00	2.00						30		<0.01	125																			
AU07776	92.00	95.00	3.00						40		<0.01	200																			
AU07777	119.00	122.00	3.00						35		<0.01	590																			
AU07778	152.00	155.00	3.00						45		0.02	215																			
AU07779	188.00	191.00	3.00						125		0.16	145																			
AU07780	215.00	218.00	3.00						150		0.06	105																			
AU07781	260.00	263.00	3.00						105		0.07	120																			
AU07782	284.00	287.00	3.00						110		0.05	115																			

HOLE NUMBER: MAN24-16

GEOCHEMICAL ASSAYS

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HOLE NUMBER : MAN24-16

GEOCHEMICAL ASSAYS

DATE: 24/04/2000

Sample	From (M)	To (M)	Leng. (M)	SM PPM	EU PPM	GD PPM	DY PPM	ER PPM	LU PPM	OS PPB	IR PPB	RU PPB	RH PPB	PT PPB	PD PPB	LI PPM	BE PPM	MN PPM	GA PPM	GE PPM	IN PPM	TL PPM	SC PPM	BR PPM	MGO#	CA/AL	NI/MGO	ISHIKW	ZH/NA2
AU07770	11.00	14.00	3.00														<5						10		0.90	0.59	53	96	1500
AU07771	23.00	26.00	3.00														5						15		0.65	0.41	19	35	10
AU07772	59.00	62.00	3.00														5						35		0.65	1.00	13	35	25
AU07773	71.00	74.00	3.00														5						5		0.83	0.19	15	34	20
AU07774	77.50	78.50	1.00														5						5		0.84	0.02	6	91	68
AU07775	81.00	83.00	2.00														5						25		0.84	0.07	3	88	48
AU07776	92.00	95.00	3.00														5						20		0.80	0.09	3	88	71
AU07777	119.00	122.00	3.00														5						25		0.71	0.16	3	80	67
AU07778	152.00	155.00	3.00														5						25		0.72	0.77	15	41	19
AU07779	188.00	191.00	3.00														<5						15		0.86	1.60	25	77	300
AU07780	215.00	218.00	3.00														<5						10		0.89	0.05	51	100	833
AU07781	260.00	263.00	3.00														<5						10		0.93	1.28	52	89	167
AU07782	284.00	287.00	3.00														<5						15		0.90	1.28	57	89	375

HOLE NUMBER: MAN24-16

GEOCHEMICAL ASSAYS

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Sample	From (M)	To (M)	Leng. (M)	YB PPM	NB PPM
AU07770	11.00	14.00	3.00		<10
AU07771	23.00	26.00	3.00		<10
AU07772	59.00	62.00	3.00		<10
AU07773	71.00	74.00	3.00		<10
AU07774	77.50	78.50	1.00		<10
AU07775	81.00	83.00	2.00		<10
AU07776	92.00	95.00	3.00		<10
AU07777	119.00	122.00	3.00		20
AU07778	152.00	155.00	3.00		<10
AU07779	188.00	191.00	3.00		<10
AU07780	215.00	218.00	3.00		<10
AU07781	260.00	263.00	3.00		<10
AU07782	284.00	287.00	3.00		<10

**FALCONBRIDGE LTD EXPLORATION**

Attention: D. Rogers

Project: 296&amp;290 (Expl)

Sample: Core

**Swastika Laboratories Ltd.**

1 Cameron Ave., Swastika, Ontario, P0K 1T0

Tel: (705) 642-3244 Fax: (705) 642-3300

Report No : 0W0657 RL

Date : Mar-16-00

**ICP Whole Rock Assay****Lithium Metaborate Fusion**

Sample Number	SiO <sub>2</sub> %	Al <sub>2</sub> O <sub>3</sub> %	Fe <sub>2</sub> O <sub>3</sub> %	CaO %	MgO %	Na <sub>2</sub> O %	K <sub>2</sub> O %	TiO <sub>2</sub> %	MnO %	P <sub>2</sub> O <sub>5</sub> %	Cr ppm	Zr ppm	Y ppm	Cu ppm	Zn ppm	Ni ppm	Co ppm	Nb ppm	V ppm	Sc ppm	Be ppm	LOI %	S %	Total %
KA03839	36.03	2.52	8.84	1.46	38.18	0.01	0.02	0.12	0.14	0.02	3510	10	<5	25	45	2285	85	<10	60	10	<5	12.04	0.03	99.98
KA03840	35.89	1.53	6.13	26.94	17.27	0.06	0.03	0.07	0.13	0.01	1680	10	<5	135	50	1375	70	<10	40	5	<5	11.17	0.30	99.56
KA03841	36.65	2.55	13.90	2.92	33.60	0.02	0.02	0.13	0.14	0.02	2815	10	<5	25	10	2195	90	<10	65	10	<5	9.48	0.15	99.94
KA03842	53.07	15.95	6.29	11.46	3.68	3.13	2.98	0.64	0.26	0.21	145	100	5	35	15	55	15	<10	80	10	5	1.86	0.08	99.58
KA03843	37.10	2.82	9.49	2.01	36.97	0.01	0.06	0.13	0.14	0.01	2640	10	<5	<5	<5	1660	90	<10	60	10	<5	10.68	0.05	99.87
KA03844	41.63	17.90	8.00	18.27	9.56	0.73	0.29	0.34	0.16	0.02	1330	20	<5	40	25	225	50	<10	165	30	<5	2.58	<0.01	99.68
KA03845	57.26	12.52	8.04	11.92	3.50	3.98	0.37	1.34	0.25	0.18	140	140	50	10	20	45	30	10	85	35	5	0.37	<0.01	99.80
KA03846	52.10	12.96	14.89	10.26	4.45	2.65	0.56	1.19	0.22	0.10	125	80	25	<5	45	35	55	20	340	40	5	0.47	<0.01	99.93

Sample is fused with Lithium Metaborate and dissolved in dilute HNO<sub>3</sub>.



12:31 No.006 P.03

MAR 07'00

ID:7056423300

Swastika Laboratories

# FALCON BRIDGE LTD EXPLORATION

Attention: D. Stevenson

Project: 036&296 Expl

Sample: Core

## Swastika Laboratories Ltd.

1 Cameron Ave., Swastika, Ontario, P0K 1T0

Tel: (705) 642-3244 Fax: (705) 642-3300

Report No: 0W0527 RL

Date: Mar-06-00

### ICP Whole Rock Assay

Lithium Metaborate Fusion

Sample Number	SiO <sub>2</sub> %	Al <sub>2</sub> O <sub>3</sub> %	Fe <sub>2</sub> O <sub>3</sub> %	CaO %	MgO %	Na <sub>2</sub> O %	K <sub>2</sub> O %	TiO <sub>2</sub> %	MnO %	P <sub>2</sub> O <sub>5</sub> %	Cr ppm	Zr ppm	Y ppm	Cu ppm	Zn ppm	Ni ppm	Co ppm	Nb ppm	V ppm	Sc ppm	Be ppm	LOI %	S %	Total %
KA03850	42.28	3.91	8.11	3.34	31.96	0.11	0.51	0.18	0.14	0.03	2240	10	5	<5	60	1675	65	<10	75	10	<5	8.79	0.03	99.77

Sample is fused with Lithium Metaborate and dissolved in dilute HNO<sub>3</sub>.

Signed: *Dennis Chantre*

Swastika Laboratories ID:7056423300 MAR 07'00 12:30 No.006 P.02.

**FALCON BRIDGE LTD EXPLORATION**

Attention: D. Stevenson

Project: 036&296 Expl

Sample: Core

**Swastika Laboratories Ltd.**  
 1 Cameron Ave., Swastika, Ontario, P0K 1T0  
 Tel: (705) 642-3244 Fax: (705) 642-3300

Report No: 0W0527 RL  
 Date: Mar-06-00

**ICP Whole Rock Assay**  
 Lithium Metaborate Fusion

Sample Number	SiO <sub>2</sub> %	Al <sub>2</sub> O <sub>3</sub> %	Fe <sub>2</sub> O <sub>3</sub> %	CaO %	MgO %	Na <sub>2</sub> O %	K <sub>2</sub> O %	TiO <sub>2</sub> %	MnO %	P <sub>2</sub> O <sub>5</sub> %	Cr ppm	Zr ppm	Y ppm	Cu ppm	Zn ppm	Ni ppm	Co ppm	Nb ppm	V ppm	Sc ppm	Be ppm	LOI %	S %	Total %
KAO4464	33.54	2.45	8.67	0.04	41.54	0.02	0.02	0.12	0.10	0.03	3125	10	<5	<5	15	2155	80	<10	50	10	<5	12.51	0.02	99.60
KAO4465	51.60	18.55	7.76	6.67	3.08	3.12	6.56	0.74	0.17	0.22	110	110	15	<5	30	28	20	<10	90	10	5	1.22	<0.01	99.74
KAO4466	35.18	2.05	8.92	0.20	40.14	0.02	0.02	0.10	0.17	0.03	1695	10	<5	<5	20	2215	95	<10	45	5	<5	12.60	0.05	99.84
KAO4467	58.47	16.93	7.02	4.94	2.67	5.09	2.36	0.67	0.11	0.21	90	100	15	<5	40	15	25	<10	85	10	5	1.05	<0.01	99.55
KAO4468	27.59	2.05	8.28	28.38	13.85	0.05	0.02	0.10	0.34	0.04	4925	10	10	60	25	935	65	<10	50	10	<5	16.30	0.08	99.60
KAO4469	36.81	2.12	8.43	0.15	39.37	0.01	0.01	0.10	0.14	0.02	1515	10	<5	<5	20	2815	75	<10	45	10	<5	12.17	0.02	99.78
KAO4470	33.76	2.40	7.20	14.36	28.88	0.02	0.06	0.11	0.16	0.02	1385	10	<5	<5	20	1810	85	<10	50	10	<5	13.20	0.07	99.71
KAO4471	38.54	3.65	8.85	23.87	18.15	0.07	0.05	0.16	0.27	0.04	2145	10	10	215	170	1190	75	<10	70	10	<5	5.52	0.16	99.55
KAO4472	43.77	11.05	12.40	17.36	11.14	0.46	0.07	0.34	0.33	0.04	2550	20	10	<5	35	450	80	<10	145	25	<5	2.33	<0.01	99.63
KAO4473	42.53	4.04	11.60	3.72	29.33	0.09	0.05	0.18	0.14	0.05	2940	10	5	<5	55	905	80	<10	80	10	<5	7.52	0.03	99.67
KAO4474	54.67	12.45	13.00	8.66	5.37	2.20	0.45	0.95	0.20	0.10	95	60	20	<5	65	35	40	<10	255	30	5	1.66	<0.01	99.76
KAO4475	55.44	12.75	12.88	7.85	5.30	2.00	0.73	0.96	0.22	0.10	90	60	25	<5	65	55	40	<10	265	35	5	1.55	<0.01	99.83
KAO4476	55.41	13.12	11.65	9.24	5.81	1.53	0.55	0.86	0.20	0.08	115	50	15	<5	60	50	40	<10	240	35	5	1.33	<0.01	99.84
KAO4477	54.93	13.86	10.87	9.98	5.64	1.66	0.43	0.73	0.18	0.08	290	50	20	35	75	80	40	<10	205	30	5	1.20	0.09	99.64
KAO3849	48.78	7.10	11.34	13.32	15.22	0.87	0.38	0.27	0.20	0.05	2310	20	10	<5	50	635	55	<10	115	20	<5	1.87	<0.01	99.71

Sample is fused with Lithium Metaborate and dissolved in dilute HNO<sub>3</sub>.

Signed: *Dennis Chantre*

11:33 No. 008 P.01

APR 13 '00

ID:7056423300

Swastika Laboratories

**FALCONBRIDGE LTD EXPLORATION**

Attention: D. Rogers  
 Project: 296 Expl  
 Sample: Core

**Swastika Laboratories Ltd.**  
 1 Cameron Ave., Swastika, Ontario, POK 1T0  
 Tel: (705) 642-3244 Fax: (705) 642-3300

Report No : **0W0949 RL**  
 Date : **Apr-12-00**

**ICP Whole Rock Assay**  
 Lithium Metaborate Fusion

Sample Number	SiO <sub>2</sub> %	Al <sub>2</sub> O <sub>3</sub> %	Fe <sub>2</sub> O <sub>3</sub> %	CaO %	MgO %	Na <sub>2</sub> O %	K <sub>2</sub> O %	TiO <sub>2</sub> %	MnO %	P <sub>2</sub> O <sub>5</sub> %	Cr ppm	Zr ppm	Y ppm	Cu ppm	Zn ppm	Ni ppm	Co ppm	Nb ppm	V ppm	Sc ppm	Be ppm	LOI %	S %	Total %
AJ07770	38.52	2.71	10.14	1.61	34.92	<0.01	0.07	0.12	0.11	0.04	4340	10	5	<5	15	1850	115	<10	115	10	<5	10.53	0.12	99.42
AJ07771	59.12	15.39	6.24	6.31	4.94	4.50	0.82	0.40	0.10	0.18	340	90	10	50	45	95	30	<10	150	15	5	1.62	0.26	99.72
AJ07772	49.15	13.75	10.05	13.81	7.85	1.78	0.62	0.62	0.21	0.08	295	50	15	<5	45	100	35	<10	240	35	5	1.84	<0.01	99.85
AJ07773	71.96	14.57	1.02	2.77	2.02	3.55	1.29	0.57	0.01	0.04	320	130	5	<5	70	30	10	<10	80	5	5	1.53	<0.01	99.42
AJ07774	71.35	14.59	2.06	0.35	4.27	0.37	3.07	0.36	0.02	0.12	165	240	5	<5	25	25	10	<10	55	5	5	3.14	<0.01	99.74
AJ07775	59.73	15.12	4.94	1.13	10.71	0.52	1.21	0.65	0.03	0.12	340	300	20	<5	25	30	30	<10	125	25	5	5.34	<0.01	99.60
AJ07776	57.73	13.13	7.49	1.23	12.62	0.49	0.42	0.67	0.04	0.17	195	260	25	<5	35	40	40	<10	200	20	5	5.34	<0.01	99.41
AJ07777	55.14	13.21	10.86	2.07	11.25	0.90	0.78	0.54	0.11	0.20	290	240	65	<5	60	30	35	20	590	25	5	4.50	<0.01	99.71
AJ07778	50.69	13.69	8.45	10.52	9.12	3.42	0.58	0.65	0.16	0.33	560	210	15	70	65	135	45	<10	215	25	5	1.85	0.02	99.60
AJ07779	42.38	4.86	11.07	7.80	26.61	0.20	0.07	0.21	0.18	0.08	2715	150	5	<5	60	665	125	<10	145	15	<5	5.91	0.16	99.77
AJ07780	34.96	2.81	11.84	0.13	36.90	0.03	0.04	0.13	0.13	0.07	4630	150	<5	<5	25	1890	150	<10	105	10	<5	12.10	0.06	99.83
AJ07781	37.21	3.48	7.59	4.44	35.55	0.03	0.01	0.15	0.16	0.05	7075	140	5	<5	<5	1840	105	<10	120	10	<5	10.15	0.07	99.74
AJ07782	38.61	3.28	10.12	4.20	34.91	0.12	0.05	0.15	0.17	0.07	3305	130	5	<5	45	1975	110	<10	115	15	<5	7.48	0.05	99.73

Sample is fused with Lithium Metaborate and dissolved in dilute HNO<sub>3</sub>.

Signed: \_\_\_\_\_





Established 1928

# Swastika Laboratories Ltd

Assaying - Consulting - Representation

## Geochemical Analysis Certificate

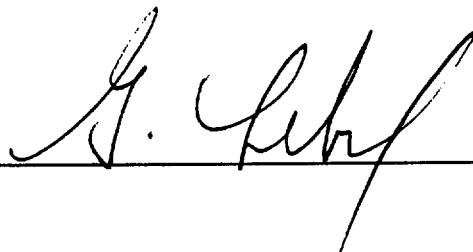
0W-0949-RG1

Company: **FALCONBRIDGE LTD EXPLORATION**  
Project: 296 Expl  
Attn: D. Rogers

Date: MAR-30-00

We hereby certify the following Geochemical Analysis of 14 Core samples submitted MAR-27-00 by .

Sample Number	Au PPB	Cu PPM	Zn PPM	Pb PPM	Ag PPM	Ni PPM	WRA -
AU07770	-	-	-	-	-	-	Results to follow
AU07771	-	-	-	-	-	-	
AU07772	-	-	-	-	-	-	
AU07773	-	-	-	-	-	-	
AU07774	-	-	-	-	-	-	
AU07775	-	-	-	-	-	-	
AU07776	-	-	-	-	-	-	
AU07777	-	-	-	-	-	-	
AU07778	-	-	-	-	-	-	
AU07779	-	-	-	-	-	-	
AU07780	-	-	-	-	-	-	
AU07781	-	-	-	-	-	-	
AU07782	-	-	-	-	-	-	
AU07827	10	1000	12	1	0.2	130	

Certified by 

1 Cameron Ave., P.O. Box 10, Swastika, Ontario P0K 1T0  
Telephone (705) 642-3244 Fax (705) 642-3300



Ministry of  
Northern Development  
and Mines

### Declaration of Assessment Work Performed on Mining Land

Mining Act, Subsection 65(2) and 66(3), R.S.O. 1990

Transaction Number (office use) <i>W0060-00445</i>
Assessment Files Research Imaging

*ALL FINAL REVISED*

section 65(2) and 66(3) of the Mining Act. Under section 8 of the Mining Act, assessment work and correspond with the mining land holder. Questions about this form should be directed to the Ministry of Northern Development and Mines, 3rd Floor, 933 Ramsey Lake Road, Sudbury, Ontario.



42A15SW2012 2.20695 MANN

900

Instructions: - For work performed on Crown Lands before recording a claim, use form 0240.  
- Please type or print in ink.

**1. Recorded holder(s) (Attach a list if necessary)**

Name <b>Falconbridge Limited Corporate Office</b>	Client Number <b>130679</b>
Address Suite 1200, 95 Wellington St. West	Telephone Number (416) 956-5700
Toronto, Ont. M5J 2V4	Fax Number (416) 956-5757
Name <b>Falconbridge Limited Field Office - Timmins</b>	Client Number
Address Falconbridge Ltd. Timmins Exploration Office	Telephone Number (705) 264-5200 (Field Office)
P.O. Box 1140 Timmins, Ont. P4N 7H9	Fax Number (705) 267-8874 (Field Office)

**2. Type of work performed: Check (✓) and report on only ONE of the following groups for this declaration.**

Geotechnical: prospecting, surveys, assays and work under section 18 (regs)       Physical: drilling stripping, trenching and associated assays       Rehabilitation

Work Type Diamond Drilling (MAN24-15 & MAN24-16) + geochemical sampling	Office Use
	Commodity
	Total \$ Value of Work Claimed <i>741,604</i>
Dates Work Performed From <u>01</u> <u>10</u> <u>99</u> To <u>14</u> <u>10</u> <u>99</u> <small>Day Month Year Day Month Year</small>	NTS Reference
Global Positioning System Data (if available)	Mining Division <i>Recap</i>
Township/Area <b>Mann Twps.</b>	Resident Geologist District
M or G-Plan Number <b>G-3537</b>	<b>RECEIVED</b> NOV 2 2000 9:15 AM BORCLIPINE MINING DIVISION

Please remember to: - obtain a work permit from the Ministry of Natural Resources as required;  
- provide proper notice to surface rights holders before starting work;  
- complete and attach a Statement of Costs, form 0212;  
- provide a map showing contiguous mining lands that are linked for assigning work;  
- include two copies of your technical report.

**3. Person or companies who prepared the technical report (Attach a list if necessary)**

Name <b>Dean Rogers - Falconbridge Limited</b>	Telephone Number (705) 264-5200 ext. 8211
Address P.O. Box 1140, Timmins, Ont. P4N 7H9	Fax Number (705) 267-8874
Name	Telephone
Address	Fax Number

**4. Certification by Recorded Holder or Agent**

I, Dean Rogers, do hereby certify that I have personal knowledge of the facts set forth in this Declaration of Assessment Work having caused the work to be performed or witnessed the same during or after its completion and, to the best of my knowledge, the annexed report is true.

Signature of Recorded Holder or Agent <i>Dean Rogers</i>	Date <b>Oct. 31, 2000</b>
Agent's Address Falconbridge Ltd. (As above)	Telephone Number (705) 264-5200 ext. 8211
	Fax Number (705) 267-8874

5. Work to be recorded and distributed. Work can only be assigned to claims that are contiguous (adjoining) to the mining land where work was performed, at the time work was performed. A map showing the contiguous link must accompany this form.

00060. 60445 REVISED

6000375  
6000377

J

Mining Claim Number. Or if work was done on other eligible mining land, show in this column the location number indicated on the claim map.	Number of Claim Units. For other mining land, list hectares.	Value of work performed on this claim or other mining land.	Value of work applied to this claim.	Value of work assigned to other mining claims.	Bank Value of work to be distributed at a future date
1 Lease #446103	16.2ha	\$39,779	\$0	\$23,916	\$15,863
2 Lease #446102	16ha	\$1,824	\$0	\$1,824	\$0
3 P1200906	16 units	\$0	\$4,540	\$0	\$0
4 P1200909	8 units	\$0	\$3,200	\$0	\$0
5 P1200910	8 units	\$0	\$3,200	\$0	\$0
6 P1200914	4 units	\$0	\$1,600	\$0	\$0
7 P1200915	16 units	\$0	\$6,400	\$0	\$0
8 P1200918	2 units	\$0	\$800	\$0	\$0
9 P1200919	4 units	\$0	\$1,600	\$0	\$0
10 P1200947	8 units	\$0	\$3,600	\$0	\$0
11 P1200948	2 units	\$0	\$800	\$0	\$0
Column Totals		\$41,803	\$25,740	\$25,740	\$15,863

I, Dean Rogers, do hereby certify that the above work credits are eligible under subsection 7 (1) of the Assessment Work Regulation 6/96 for assignment to contiguous claims or for application to the claim where the work was done.

Signature of Recorded Holder or Agent Authorized in Writing <i>Dean Rogers</i>	Date Oct. 31, 2000
---	-----------------------

6. Instruction for cutting back credits that are not approved.

Some of the credits claimed in this declaration may be cut back. Please check (✓) in the boxes below to show how you wish to prioritize the deletion of credits:

- 1. Credits are to be cut back from the Bank first, followed by option 2 or 3 or 4 as indicated.
- 2. Credits are to be cut back starting with the claims listed last, working backwards; or
- 3. Credits are to be cut back equally over all claims listed in this declaration; or
- 4. Credits are to be cut back as prioritized on the attached appendix or as follows (describe):

2. 20095

Note: If you have not indicated how your credits are to be deleted, credits will be cut back from the Bank first, followed by option number 2 if necessary.

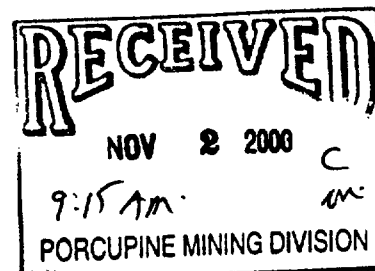
For Office Use Only

Received Stamp	Deemed Approved Date	Date Notification Sent
	Date Approved	Total Value of Credit Approved
	Approved for Recording by Mining Recorder (Signature)	

0241 (08/97)

Date Approved	Total Value of Credit Approved
Approved for Recording by Mining Recorder (Signature)	

0241 (03/97)





Statement of Costs for Assessment Credit

Transaction Number (office use) W0060.00445

Personal information collected on this form is obtained under the authority of subsection 6 (1) of the Assessment Work Regulation 6/96. Under section 8 of the Mining Act, this information is a public record. This information will be used to review the assessment work and correspond with the mining land holder. Questions about this collection should be directed to a Provincial Mining Recorder, Ministry of Northern Development and Mines, 3rd Floor, 933 Ramsey Lake Road, Sudbury, Ontario, P3E 6B5.

2.20095

Table with 4 columns: Work Type, Units of work, Cost Per Unit of work, Total Cost. Rows include Diamond Drilling, Whole Rock Samples, Geologist, Core boxes, Associated Costs, Mobilization, Transportation Costs, Truck Rental, Food and Lodging Costs, and Total Value of Assessment Work (\$41,604).

Calculations of Filing Discounts:

- 1. Work filed within two years of performance is claimed at 100% of the above Total Value of Assessment Work.
2. If work is filed after two years and up to five years after performance, it can only be claimed at 50% of the Total Value of Assessment Work.

TOTAL VALUE OF ASSESSMENT WORK x 0.50 = Total \$ value of worked claimed.

Note:

- Work older than 5 years is not eligible for credit.
- A recorded holder may be required to verify expenditures claimed in this statement of costs within 45 days of a request for verification and/or correction/clarification.

Certification verifying costs:

I, Dean Rogers, do hereby certify, that the amounts shown are as accurate as may reasonably be determined and the costs were incurred while conducting assessment work on the lands indicated on the accompanying

Declaration of Work form as Project Geologist I am authorized to make this certification. (recorded holder, agent, or state company position with signing authority)

Signature [Handwritten Signature] Date October 31, 2000

RECEIVED NOV 03 2000 GEOSCIENCE ASSESSMENT OFFICE

RECEIVED NOV 2 2000 9:15 Am PORCUPINE MINING DIVISION

Geoscience Assessment Office  
933 Ramsey Lake Road  
6th Floor  
Sudbury, Ontario  
P3E 6B5

Telephone: (888) 415-9845  
Fax: (877) 670-1555

November 10, 2000

FALCONBRIDGE LIMITED  
SUITE 1200, 95 WELLINGTON STREET WEST  
TORONTO, ONTARIO  
M5J-2V4

Visit our website at:  
[www.gov.on.ca/MNDM/MINES/LANDS/mlsmnpge.htm](http://www.gov.on.ca/MNDM/MINES/LANDS/mlsmnpge.htm)

Dear Sir or Madam:

**Submission Number:** 2.20695

**Status**

**Subject: Transaction Number(s):** W0060.00445 Approval

---

We have reviewed your Assessment Work submission with the above noted Transaction Number(s). The attached summary page(s) indicate the results of the review. **WE RECOMMEND YOU READ THIS SUMMARY FOR THE DETAILS PERTAINING TO YOUR ASSESSMENT WORK.**

If the status for a transaction is a 45 Day Notice, the summary will outline the reasons for the notice, and any steps you can take to remedy deficiencies. The 90-day deemed approval provision, subsection 6(7) of the Assessment Work Regulation, will no longer be in effect for assessment work which has received a 45 Day Notice. Allowable changes to your credit distribution can be made by contacting the Geoscience Assessment Office within this 45 Day period, otherwise assessment credit will be cut back and distributed as outlined in Section #6 of the Declaration of Assessment work form.

Please note any revisions must be submitted in **DUPLICATE** to the Geoscience Assessment Office, by the response date on the summary.

If you have any questions regarding this correspondence, please contact **BRUCE GATES** by e-mail at [bruce.gates@ndm.gov.on.ca](mailto:bruce.gates@ndm.gov.on.ca) or by telephone at (705) 670-5856.

Yours sincerely,



ORIGINAL SIGNED BY  
Lucille Jerome  
Acting Supervisor, Geoscience Assessment Office  
Mining Lands Section



# Work Report Assessment Results

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**Submission Number:** 2.20695

**Date Correspondence Sent:** November 10, 2000

**Assessor:** BRUCE GATES

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<b>Transaction Number</b>	<b>First Claim Number</b>	<b>Township(s) / Area(s)</b>	<b>Status</b>	<b>Approval Date</b>
W0060.00445	446103	MANN	Approval	November 09, 2000

**Section:**  
16 Drilling PDRILL

**Correspondence to:**  
Resident Geologist  
South Porcupine, ON

Assessment Files Library  
Sudbury, ON

**Recorded Holder(s) and/or Agent(s):**  
Dean F. Rogers  
TIMMINS, ONTARIO, CANADA

FALCONBRIDGE LIMITED  
TORONTO, ONTARIO

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AREAS WITHDRAWN FROM DISPOSITION  
 M.R.D. - MINING RIGHTS ONLY  
 S.R.O. - SURFACE RIGHTS ONLY  
 M.F.S. - MINING AND SURFACE RIGHTS  
 Description Order No. Date of Operation P.A.

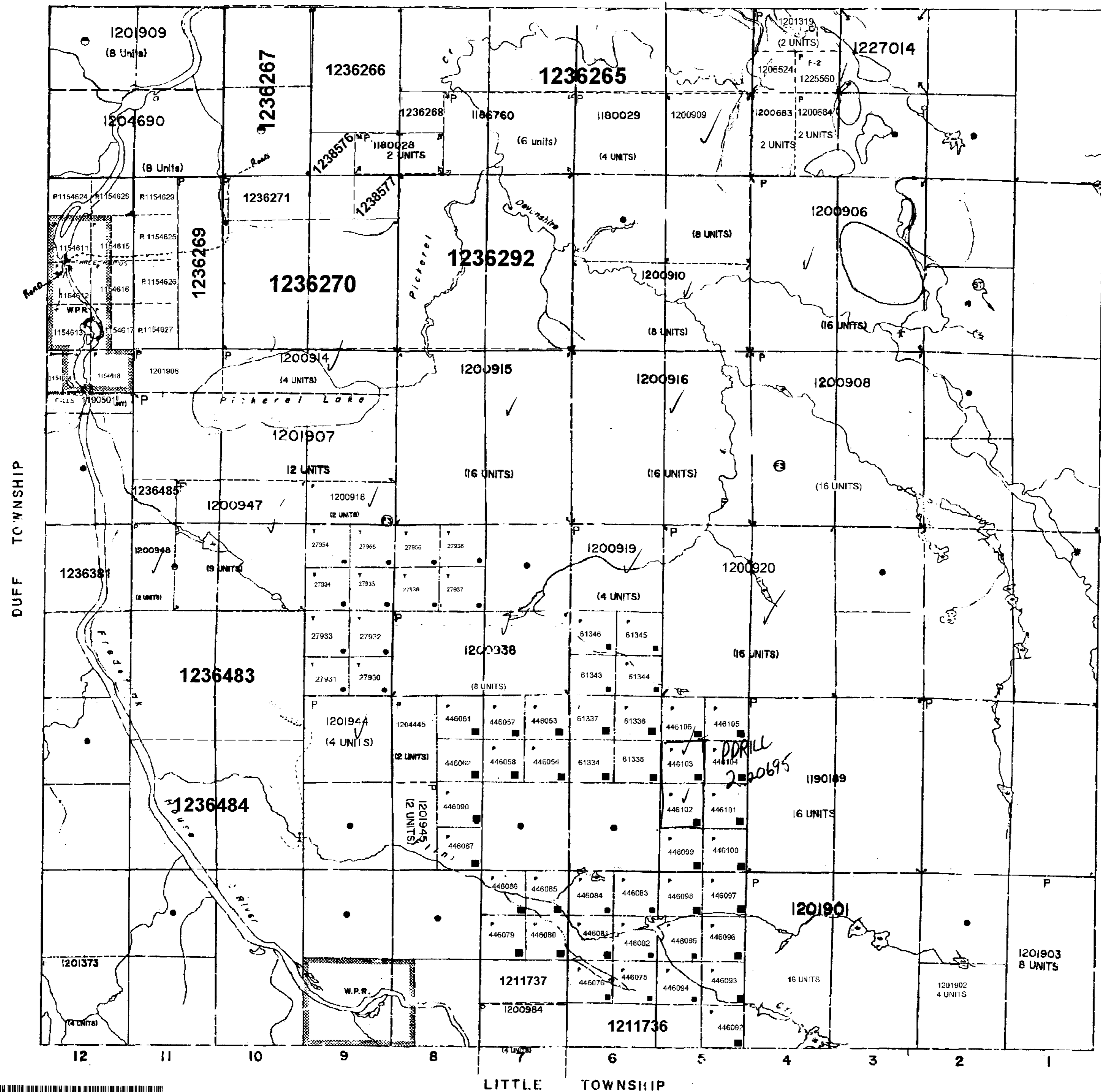
**W.P.R. WATER POWER RESERVE**

W.D. 87/87

SURFACE AND MINING RIGHTS ARE OPENED TO PROSPECTIVE STAKING OUT, SALE OR LEASE UNDER SECTION 28 OF THE MINING ACT R.S.O. 1990 EFFECTIVE SINCE THE 1ST DAY OF JANUARY 1990 ORDER NO. 0-2-4790 IN DATED 30-JAN-90.

NOTE: P1125837 PLOTTED IN ERROR. S/B P114737.

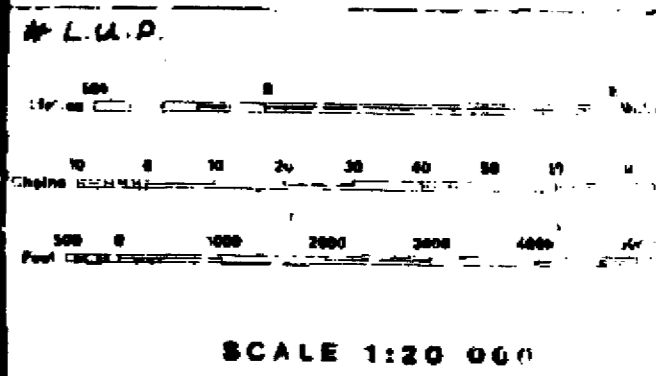
LITTLE TOWNSHIP



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

TYPE OF DOCUMENT	SYMBOL
PATENT, SURFACE & MINING RIGHTS	
SURFACE RIGHTS ONLY	
MINING RIGHTS ONLY	
LEASE, SURFACE & MINING RIGHTS	
SURFACE RIGHTS ONLY	
MINING RIGHTS ONLY	
LICENSURE OF OCCUPATION	
ORDER IN COUNCIL	
RESERVATION	
CANCELLED	
SAND & GRAVEL	
LAND USE PERMIT	
NOTE: MINING RIGHTS IN PARCELS PATENTED PRIOR TO 1912, VESTED IN ORIGINAL PATENTEE BY LAND ACT, R.S.O. 1919, CHAP. 286, SEC. 6, SUB.	



SHORABLE TRAIL (LAND USE PERMIT) NOTICE RECEIVED 30-DEC-08

Received Sept 22/06  
 TOWNSHIP  
**MANN**  
 M.M.R. ADMINISTRATIVE DISTRICT  
**COCHRANE**  
 MINING DIVISION  
**PORCUPINE**  
 AND TITLES / REGISTRY DIV. 5114  
**COCHRANE**

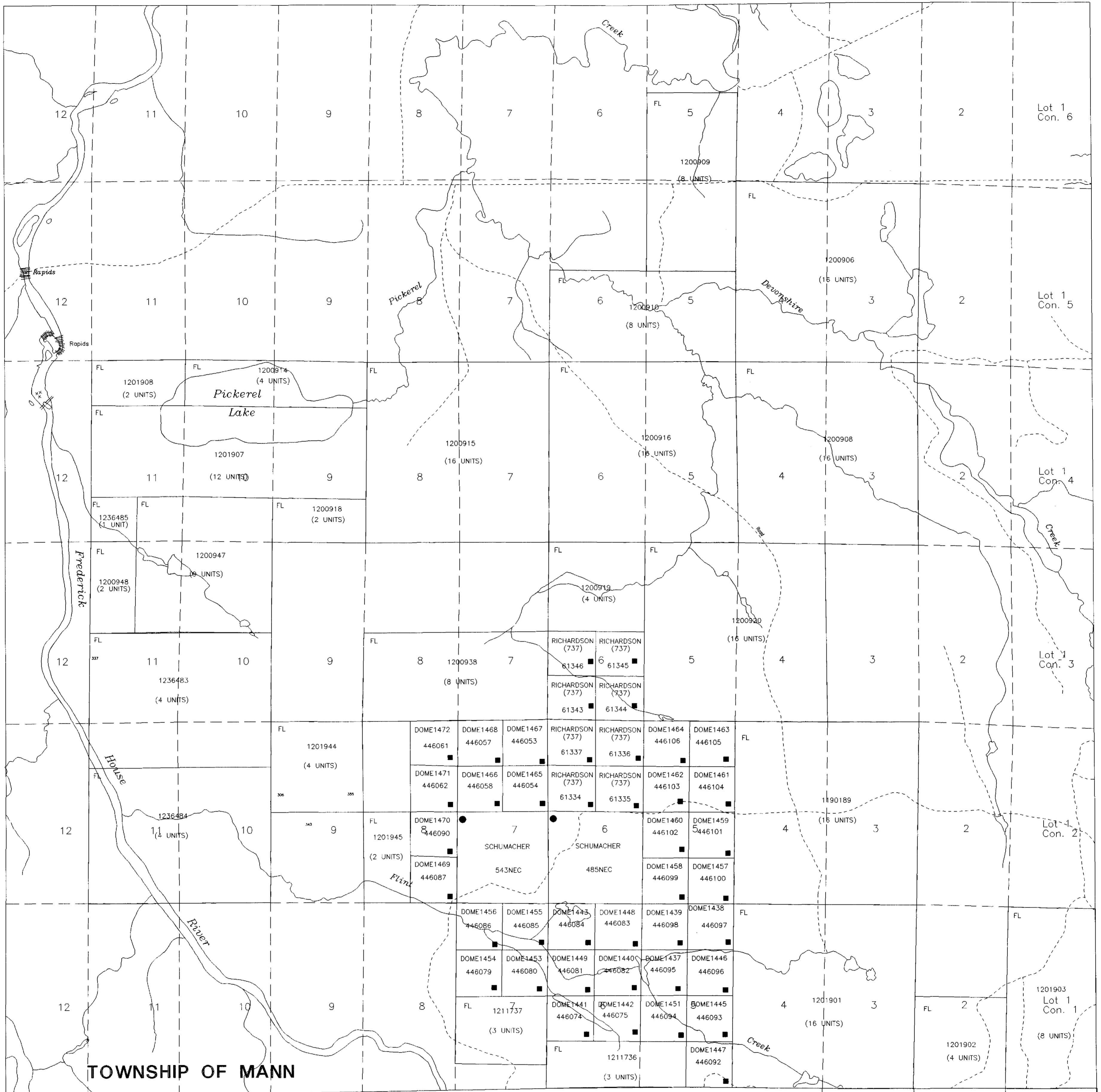
Ministry of Natural Resources Ontario  
 Ministry of Northern Development and Mines

SEPTEMBER 1986  
**G-3537**

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 RECORDS, MINISTRY OF NORTHERN DEVELOPMENT AND MINES, FOR ADDITIONAL INFORMATION ON THE STATUS OF THE LANDS SHOWN HEREON.



42A155W2012 2.20695 MANN 200



**TOWNSHIP OF MANN**

**TOWNSHIP OF LITTLE**



42A155W2012 2.20695 MANN 210

Falconbridge Ltd. - Timmins  
Mann Township

**FL Property Location Map**

Traced by :	Approved by :
Drawn by : <i>Dean Rogers</i> <i>Oct 12/09</i>	Plan no. :
Supervised by :	Scale : 1 : 20,000 (metres)
Revised by :	



		8296										MAN24-16																							
SAMPL. No.	FROM (M)	TO (M)	Int (M)	S102	AL203 %	CAO %	MGD %	NA2O %	K2O %	FE203 %	T102 %	P205 %	MNO %	LOI %	SUM %	Y PPM	ZR PPM	CU PPM	ZN PPM	NI PPM	CR PPM	FIELD NAME	CHEM ID	ALUM	CO PPM	S %	V PPM	BE PPM	SC PPM	NB PPM	MO#	CA/AL	NI/MO	ISHKW	ZN/NA2
AU07770	11.00	14.00	3.0	38.52	2.71	1.61	34.92	<0.01	0.07	10.14	0.12	0.04	0.11	10.53	98.78	5	10	<5	15	1850	4340	1, a, l	1L1	160	115	0.12	115	<5	10	<10	0.90	0.59	53	96	1500
AU07771	23.00	26.00	3.0	59.12	15.39	6.31	4.94	4.50	0.82	6.24	0.40	0.18	0.10	1.62	99.62	10	90	50	45	95	340	2, a, m	4jA	132	30	0.26	150	5	15	<10	0.65	0.41	19	35	10
AU07772	59.00	62.00	3.0	49.15	13.75	13.81	7.85	1.78	0.62	10.05	0.62	0.08	0.21	1.84	99.76	15	50	<5	45	100	295	7, b, m	7(h)u	85	35	<0.01	240	5	35	<10	0.65	1.00	13	35	25
AU07773	71.00	74.00	3.0	71.96	14.57	2.77	2.02	3.55	1.29	1.02	0.57	0.04	0.01	1.53	99.33	5	130	<5	70	30	320	4, a, E	3j	191	10	<0.01	80	5	5	<10	0.83	0.19	15	34	20
AU07774	77.50	78.50	1.0	71.35	14.59	0.35	4.27	0.37	3.07	2.06	0.36	0.12	0.02	3.14	99.70	5	240	<5	25	25	165	4, a, E	4jA	385	10	<0.01	55	5	5	<10	0.84	0.02	6	91	68
AU07775	81.00	83.00	2.0	59.73	15.12	1.13	10.71	0.52	1.21	4.94	0.65	0.12	0.03	5.34	99.50	20	300	<5	25	30	340	4, b, E	2ju	529	30	<0.01	125	5	25	<10	0.84	0.07	3	88	48
AU07776	92.00	95.00	3.0	57.73	13.13	1.23	12.62	0.49	0.42	7.49	0.67	0.17	0.04	5.34	99.33	25	260	<5	35	40	195	4, b, E	1H	614	40	<0.01	200	5	20	<10	0.80	0.09	3	88	71
AU07777	119.00	122.00	3.0	55.14	13.21	2.07	11.25	0.90	0.78	10.85	0.54	0.20	0.11	4.50	99.56	65	240	<5	60	30	290	4, b, E	1H	352	35	<0.01	590	5	25	20	0.71	0.16	3	80	67
AU07778	152.00	155.00	3.0	50.69	13.69	10.52	9.12	3.42	0.58	8.45	0.65	0.33	0.16	1.85	99.46	15	210	70	65	135	560	2, a, m	2jyB	94	45	0.02	215	5	25	<10	0.72	0.77	15	41	19
AU07779	188.00	191.00	3.0	42.38	4.86	7.80	26.61	0.20	0.07	11.07	0.21	0.08	0.18	5.91	99.37	5	150	<5	60	665	2715	1, a, l	1L	60	125	0.16	145	<5	15	<10	0.96	1.60	25	77	300
AU07780	215.00	218.00	3.0	34.96	2.81	0.13	36.90	0.03	0.04	11.84	0.13	0.07	0.13	12.10	99.14	<5	150	<5	25	1890	4630	1, a, l	1L1	1405	150	0.06	105	<5	10	<10	0.89	0.05	51	100	833
AU07781	260.00	263.00	3.0	37.21	3.48	4.44	35.55	0.03	0.01	7.59	0.15	0.05	0.16	10.15	98.82	5	140	<5	<5	1840	7075	1, a, l	1L1	78	105	0.07	120	<5	10	<10	0.93	1.28	52	89	167
AU07782	284.00	287.00	3.0	38.61	3.28	4.20	34.91	0.12	0.05	10.12	0.15	0.07	0.17	7.48	99.16	5	130	<5	45	1975	3305	1, a, l	1L	75	110	0.05	115	<5	15	<10	0.90	1.28	57	89	375

300m

300m

Mining Lease  
#446102Mining Lease  
#446103MAN24-16  
101+00E  
101+75N  
Az. 200°

200m

200m

100m

100m



42A15SW2012 2.20695 MANN

230

E.O.H.  
MAN24-16  
311.00m.

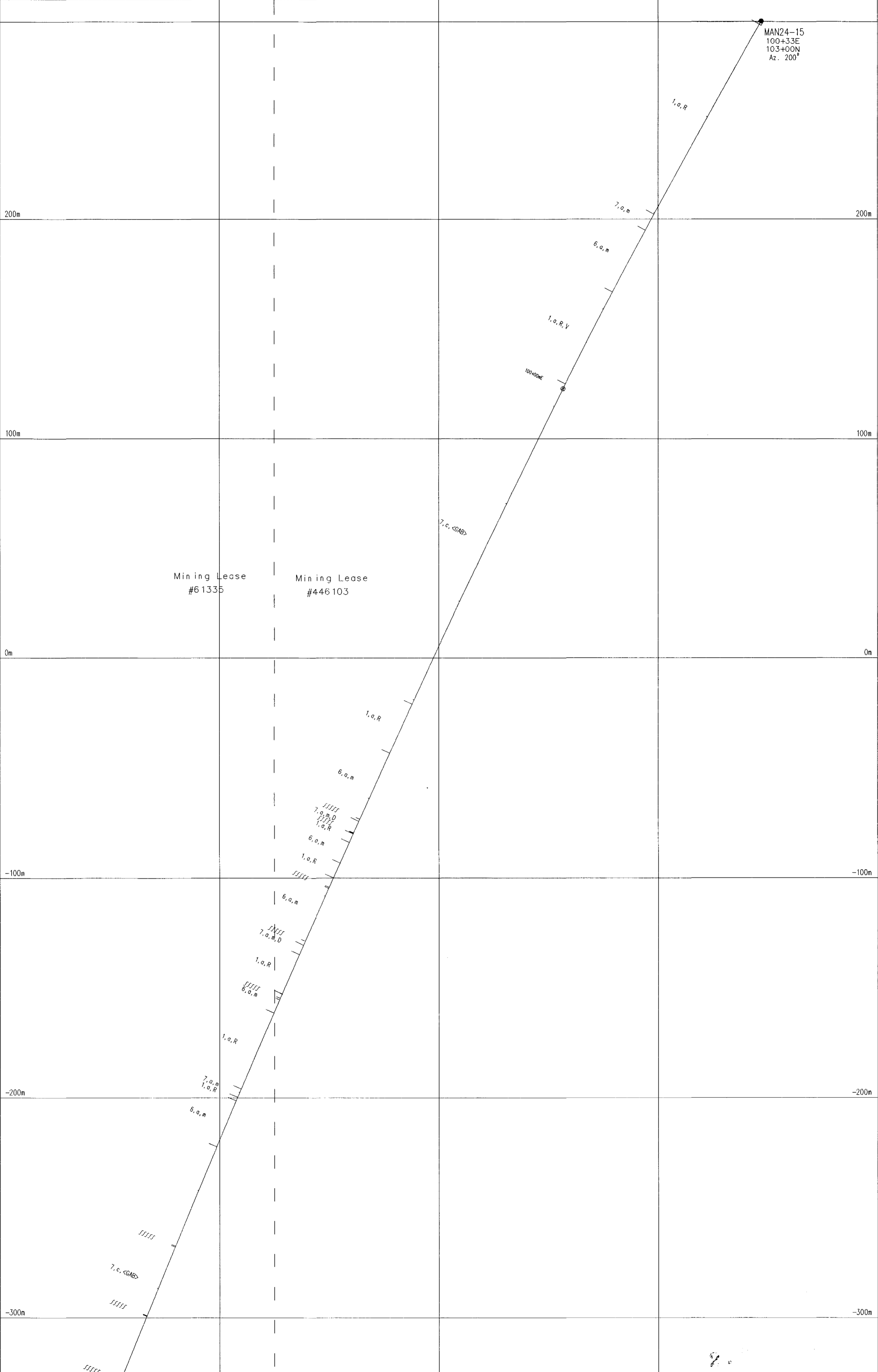
2.20695

Falconbridge Limited  
Exploration - TimminsMann Twp. Properties  
Section 101+00E

viewing west

Traced by : DFR	Apr/00	Approved by :
Drawn by :		Plan no. :
Supervised by :		Scale : 1 : 1000 (metres)
Revised by :		

SAMPL. No.		FROM (M)	TO (M)	1st (M)	SI02 %	AL2O3 %	CaO %	MgO %	Na2O %	K2O %	FE2O3 %	TiO2 %	P2O5 %	MnO %	LOI %	SiM %	Y PPM	Zr PPM	Co PPM	Zn PPM	Ni PPM	OR PPM	FIELD NAME	CHEM ID	ALUM PPM	CO PPM	S %	V PPM	RE PPM	SC PPM	BE PPM	MOF PPM	CA/AL	NI/MG	ISHW	ZN/AL
KAD3839	14.00	17.00	3.0	36.03	2.52	1.46	38.18	0.01	0.02	8.84	0.12	0.02	0.14	12.04	99.38	<5	90	25	45	2285	3510	1, a, R	HLI	169 85	0.03	80	<5	10	<10	0.52	0.58	60	96	4500		
KAD3840	53.00	56.00	3.0	35.89	1.53	28.84	17.27	0.06	0.03	6.13	0.07	0.01	0.13	11.17	99.23	<5	90	135	50	1375	1680	1, a, R	HLI	6 70	0.30	40	<5	5	<10	0.88	17.61	80	39	833		
KAD3841	89.00	92.00	3.0	36.85	2.05	2.92	33.60	0.02	0.02	13.90	0.13	0.02	0.14	9.48	99.43	<5	90	25	10	2195	2815	1, a, R	HLI	86 90	0.15	85	<5	10	<10	0.86	1.15	65	92	500		
KAD3842	104.00	107.00	3.0	33.07	15.95	11.48	3.68	3.13	2.88	6.29	0.44	0.21	0.26	1.86	99.53	5	100	35	15	55	145	7, a, m	RJ	91	0.08	80	5	10	<10	0.58	0.72	15	31	5		
KAD3843	140.00	143.00	3.0	37.10	2.82	2.01	36.97	0.01	0.06	9.49	0.13	0.01	0.14	10.88	99.42	<5	90	<5	<5	1880	2640	1, a, R	HLI	136 90	0.05	80	<5	10	<10	0.91	0.71	45	95	500		
KAD3844	166.00	169.00	3.0	41.63	17.90	18.27	9.56	0.73	0.29	8.00	0.34	0.02	0.16	2.58	99.48	<5	20	40	25	225	1330	1, a, R	H(b)A	93 50	<0.01	165	<5	30	<10	0.74	1.02	24	34	34		
KAD3845	191.00	194.00	3.0	37.28	12.52	11.92	3.50	3.98	0.37	8.04	1.34	0.18	0.25	0.37	99.73	50	140	10	20	45	140	7, a, m	7h	77 30	<0.01	85	5	35	10	0.51	0.95	13	20	5		
KAD3846	224.00	227.00	3.0	32.10	12.96	10.28	4.45	2.65	0.56	14.09	1.19	0.10	0.22	0.47	99.63	25	80	<5	45	35	125	7, c	7(b) v	96 65	<0.01	340	5	40	20	0.41	0.79	8	28	17		
KAD3849	302.27	355.42	1.2	48.78	7.10	13.32	15.22	0.87	0.38	11.34	0.27	0.05	0.20	1.87	99.40	10	20	<5	50	635	2310	7, a, m	6H	49 55	<0.01	115	<5	20	<10	0.77	1.88	42	52	57		
KAD3850	362.00	365.00	3.0	42.28	3.91	3.34	31.96	0.11	0.51	8.11	0.18	0.03	0.14	8.79	99.36	5	90	<5	60	1675	2240	1, a, R	HLI	98 65	0.03	75	<5	10	<10	0.91	0.85	52	90	545		
KAD4664	401.00	404.00	3.0	33.54	2.45	0.04	43.54	0.02	0.02	8.67	0.12	0.03	0.10	12.51	99.04	<5	10	<5	15	2155	3125	6, a, m	6M	3083 80	0.02	50	<5	10	<10	0.93	0.02	52	100	750		
KAD4665	413.00	416.00	3.0	31.60	18.55	6.87	3.08	3.12	6.54	7.76	0.74	0.22	0.17	1.22	99.69	15	110	<5	30	20	110	7, a, m	6I	113	<0.01	80	5	10	<10	0.46	0.36	8	50	10		
KAD4667	425.00	428.00	3.0	35.18	2.05	0.20	40.14	0.02	0.02	8.92	0.10	0.03	0.17	12.60	99.43	<5	90	<5	20	2215	1695	6, a, m	6M	854 95	0.05	45	<5	5	<10	0.92	0.10	55	99	1000		
KAD4667	476.00	479.00	3.0	58.47	16.93	4.94	2.87	5.09	2.38	7.02	0.67	0.21	0.11	1.05	99.52	15	100	<5	40	15	90	7, a, m	6(j)	137 25	<0.01	85	5	10	<10	0.47	0.29	8	33	8		
KAD4668	486.00	489.00	3.0	27.58	2.05	28.38	15.85	0.05	0.02	8.28	0.10	0.04	0.34	18.30	99.00	10	90	60	25	835	4925	1, a, R	HLI	7 85	0.06	50	<5	10	<10	0.80	13.84	68	33	500		
KAD4669	503.00	506.00	3.0	36.81	2.12	0.15	29.37	0.01	0.01	8.43	0.10	0.02	0.14	12.17	99.33	<5	10	<5	20	2815	1915	6, a, m	6L	1247 75	0.02	45	<5	10	<10	0.92	0.07	51	100	2000		
KAD470	515.00	518.00	3.0	33.76	2.40	14.36	28.08	0.02	0.06	7.20	0.11	0.02	0.16	13.20	99.37	<5	10	<5	20	1810	1385	1, a, R	HLI	17 85	0.07	50	<5	10	<10	0.91	5.88	64	66	1000		
KAD471	533.00	536.00	3.0	38.54	3.85	23.87	18.15	0.07	0.05	8.85	0.16	0.04	0.27	5.52	99.17	10	10	215	170	1190	2145	7, a, m	6J	15 75	0.16	70	<5	10	<10	0.84	6.54	66	43	2429		
KAD472	548.15	551.15	3.0	43.77	11.65	17.36	11.14	0.46	0.07	12.40	0.34	0.04	0.33	2.33	99.29	10	20	<5	55	450	2550	7, a, m	6H	62	<0.01	145	<5	25	<10	0.68	1.57	40	39	120		
KAD473	572.00	575.00	3.0	42.54	4.04	3.22	29.33	0.09	0.05	11.60	0.18	0.05	0.14	7.52	99.25	5	90	<5	55	985	2940	6, a, m	6L	105 80	0.03	80	<5	10	<10	0.96	0.92	31	89	611		
KAD474	600.00	603.00	3.0	54.67	12.45	8.66	5.37	2.20	0.45	13.00	0.95	0.10	0.20	1.66	99.71	20	60	<5	65	35	95	7, c, <GAB>	7hv	110 40	<0.01	255	5	30	<10	0.49	0.70	7	35	30		
KAD475	638.00	641.00	3.0	35.44	12.75	7.85	5.30	2.00	0.73	12.88	0.96	0.10	0.22	1.55	99.78	25	60	<5	85	35	90	7, c, <GAB>	7hv	121 40	<0.01	285	5	35	<10	0.49	0.82	10	30	33		
KAD476	671.00	674.00	3.0	35.41	13.12	9.24	5.81	1.53	0.55	11.85	0.86	0.08	0.20	1.33	99.78	15	50	<5	60	50	115	7, c, <GAB>	7hv	115 40	<0.01	240	5	35	<10	0.54	0.70	9	37	38		



Falconbridge Limited	
Exploration - Timmins	
Mann Twp. Properties	
Section 100+00E	
viewing west	
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