



HOLE NUMBER: J41-13
 PROJECT NAME: 8142
 PROJECT NUMBER: 008142
 CLAIM NUMBER: P-516102
 LOCATION: Jamieson Typ
 DATE STARTED: 07/08/1995
 DATE COMPLETED: 03/14/1995
 DATE LOGGED: 03/16/1995
 COLLAR SURVEY: NO
 ROD LOG: NO
 HOLE MAKES WATER: NO
 COLLAR ASTRONOMIC AZIMUTH: 206° 0' 0"
 COLLAR SURVEY: NO
 PULSE EM SURVEY: NO
 PLOGGED: NO
 HOLE SIZE: NO
 ALTERNATE COORDS GRID: UTM
 NORTH: 5382155.21m
 EAST: 487076.24mE
 ELEV: 298.00
 GRID ASTRONOMIC AZIMUTH: 206° 0' 0"
 IMPERIAL UNITS: X
 DATE: 08/12/1995
 METRIC UNITS: X
 COLLAR DIP: -50° 0' 0"
 LENGTH OF THE HOLE: 307.00M
 START DEPTH: 0.00M
 FINAL DEPTH: 307.00M
 CONTRACTOR: Dominik
 CASING: 25m IM
 CORE STORAGE: Kidd Creek
 UTM COORD. 1

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
46.00	207° 0' 0"	-47° 0' 0"	S	OK							
106.00	207° 30' 0"	-44° 0' 0"	S	OK							
166.00	208° 0' 0"	-45° 0' 0"	S	OK							
226.00	212° 0' 0"	-42° 30' 0"	S	OK							
292.00	212° 0' 0"	-41° 30' 0"	S	OK							
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John Patterson

HOLE NUMBER: J41-13

DATE: 05/12/1995

DRILL HOLE RECORD

FROM TO	ROCK TYPE	TEXTURE AND STRUCTURE	ANGLE TO CA	ALTERATION	MINERALIZATION	REMARKS
0.00 TO 25.00	40B+ Casing Overburden					
25.00 TO 85.95	4, n, a Pelvic Volcanic spherulitic tuff	-25-28m RQD=0 -Spherulitic, 2-3mm, deformed parallel moderate flattening foliation @ 45-55° to C.A. -Chloritic, common small chlorite seams in first 10-15m of core -gradational change to micro-spherulitic after 37m -Lapilli rich section, 44.0-44.2m -51.4-51.6m hematitic seam -Rare spotty amphiboles starting at 53m -Silicified, aphanitic section, 54.3-54.9 -55-55-57.0m RQD=20, hematite staining, much ground and broken core -57-70m more common chlorite seams -Becomes amygdaloidal after 82.25 -85.0-85.95m block breccia at base as of unit, appears primary, -Blocks appear dominantly monolithic, amygdaloidal spherulitic felsic tuff, up to 15cm in size -Lower contact sharp @ 60° to C.A.		-28.0-28.6m pervasive hematite staining, chloritisation -35.6-37.1m pervasive chloritization, hematite staining, -increasing quartz-carbonate veining after 66m -vein related sericitisation 71.3-75.7m	-Trace disseminated and fracture related py and po from 77.5 to end of unit	
25.00 TO 90.66	5, <ARG> Sedimentary argillaceous	-Very fine grained black unit -Non-conductive -Possible grain size increase after 86.7m (may be alteration related) -possible flame structure @ 88.48, tops up hole (north) -apparent primary fragments, up to 6-8cm in size (most are 1-2cm), up to 20 % of rock, matrix supported -Lower contact lost in broken and altered core @ 90.66m		-pervasive silicification -common solution textures and colour changes		
90.66 TO 107.00	4, bk, n, b Pelvic Volcanic breccia spherulitic lapilli tuff	-fine grained spherulitic ash matrix, light to dark grey in colour -common fragments of similar material, may be in situ breccia but appears primary -amygdaloidal, 91-93m -breccia section with chloritized matrix, 95.8-96.2m -thin argillite interbeds or structurally		-common silicification, pervasive -chloritisation in fragmental matrix	-Trace disseminated po	

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DRILL HOLE RECORD

LOGGED BY: M. Collison

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DRILL HOLE RECORD

HOLE NUMBER: J41-13

FROM TO	ROCK TYPE	TEXTURE AND STRUCTURE	ANGLE TO CA	ALTERATION	MINERALIZATION	REMARKS
107.00 TO 120.43	sl.n.s. Felsic Volcanic spherulitic tuff	interposed layers @ 96.7m, and 98.9-99.5m -becomes amygdaloidal again after 98.4m -graphitic fragment bounded by QV sub-parallel to C.A., 102.4-102.65m -banded @ 43° to C.A. @ 103.95m -gradational lower contact marked by lack of recognisable fragments -gradational upper contact -light to dark grey unit with deformed spherulites to 1mm in size -amygdaloidal for top 4-5m, gradually decreasing in abundance -weakly foliated @ 45° to C.A. -in-situ brecciation common towards base of unit -lower contact @ 60° to C.A.		-pervasive weak to moderate silicification -pervasive quartz stringers parallel foliation lower in unit		-none noted
120.43 TO 125.15	s.s.,ARG, *g Sedimentary argillaceous thinly laminated	-very fine grained dark black unit -foliated/laminated @ 50-60° to C.A. -non-conductive		-pervasive silicification -common quartz veining parallel to foliation/lamination	-1-3% vein/foliation related py	
125.15 TO 133.45	s.s. Felsic fine grained sericitized	-very fine grained to sphanitic light yellow green to dark grey unit -moderately foliated @ 50° to C.A. -some sections possibly epiclastic, sedimentary component -N.B. some misplaced core noticed in this section!		-pervasive sericitization -cut by numerous quartz stringers oriented parallel foliation -numerous chlorite slips	-locally 1-3% po associated with chlorite slips	
133.00 TO 149.10	s.s. Mafic fine grained pillowed	-fine grained dark to light green-grey unit -rare discernable pillow selvages, small (<10cm) sections of interpillow breccia -weakly foliated -40° to C.A. -35cm fine grained felsic interbed noted 143.7-144.05m -sharp lower contact @ 42° to C.A.		-pervasive moderate chloritization -numerous quartz-carbonate stringers and veins approximately parallel foliation -quartz-carbonate flooding, large vein at low angle to C.A. 146.05-149.0m	-1% fracture and chlorite slip associated po and py	
149.10 TO 166.65	s.C.br, *hs Metrolithic c breccia clast	-heterogenous coloured and variable clast size -subrounded to subangular fragments, mostly of fine grained cherty felsic but also containing mafic and chloritized fragments, from 2-3mm to 10cm plus in apparent size			-1-3% disseminated and fracture related py and po 152.60-152.65 cPy>B10-20% 10.0-20.0% bedded/banded	

HOLE NUMBER: J41-13

DRILL HOLE RECORD

LOGGED BY: M. Collison

DATE: 05/12/1995

DRILL HOLE RECORD

HOLE NUMBER: J41-13

FROM TO	ROCK TYPE	TEXTURE AND STRUCTURE	ANGLE TO CA	ALTERATION	MINERALIZATION	REMARKS
166.65 TO 221.37	supported e3.e.*as Mafic to In termediate Volcanic amygdaloid tuff	-moderately to strongly foliated @ 49° to C.A. -fine grained light to dark grey green unit -siliceous, but not as hard as previous felsic units -chloritic matrix -probably large epidioleasts component -rare lapilli -1-3/4 quartz filled amygdules to 5mm, becoming less common down hole -weak to moderately foliated at 55-60° to C.A. -short (10-30cm) sections that look vesicular (1-2mm quartz filled vesicles)--> these may represent blocks of pumaceous material, but contacts are at best obscure - excellent example @181.20-181.34, 181.43-181.56m -matrix becomes less chloritic, more siliceous from ~ 194m -unit base is lapilli rich for last 0.7m		-pervasive moderate chloritization -pervasive weak to moderate silicification -very common quartz-carbonate veining, sub-parallel to foliation and crosscutting	-trace to 1% disseminated and fracture related po	
221.37 TO 231.35	e2.bx.*as Mafic Volcanic breccia hyaloclast ite	-upper contact @ 60° to C.A., sharp -irregular fragments subrounded to angular varying in size from 1-2mm to blocks up to 30cm in size -smaller fragments surrounded by blue-white quartz, appear to be hyaloclastite -matrix very chlorite rich		-strongly silicified -matrix variably chloritized	-1-3% euhedral to subhedral py and po grains to 3mm, disseminated and as small bands parallel foliation/bedding	
231.35 TO 246.03	e3.*as Mafic to In termediate Volcanic tuff	-dark green grey fine grained unit -very similar to 166.65-221.37 -probably large epidioleasts component -weakly to moderately foliated at ~60° to C.A. -no visible primary structures		-pervasive silicification -euhedral secondary ankerite grains to 2mm, up to 1/2 of rock 235-236m	-<1% disseminated py and po	
246.03 TO 285.53	e4.a.e.bx.8 e.81 Felsic Volcanic fine grained vesicular in situ breccia, sericitize silicified	-fine grained light to dark grey unit with fragments -upper contact at first discernable vesicular felsic block -blocks are fine grained with 2-3mm vesicles, many of which are filled by clear quartz -lower in section (after 255.5m) vesicles become filled with beige mineral, probably aluminous, hardness ~5.5 -matrix (?) becomes very dark, chloritic/carbonaceous at 265m and continues to		-pervasive sericitization of variable strength -local fracture controlled silicification -local fracture controlled weak to moderate chloritization -ankerite porphyroblasts to 2mm, up to 20%, 270.7-276.8m	if unit is a primary fragmental, would indicate close proximity to the vent. Another possibility is that the unit is a debris flow from closer to the vent.	

HOLE NUMBER: J41-13

DRILL HOLE RECORD

LOGGED BY: M.Collison

HOLE NUMBER: J41-13

DRILL HOLE RECORD

DATE: 05/12/1995

FROM TO	ROCK TYPE	TEXTURE AND STRUCTURE	ANGLE TO CA	ALTERATION	MINERALIZATION	REMARKS
285.53 TO 297.10	e2.a Mafic Volcanic fine grained	end of unit -end of unit at last recognisable felsic fragment -lower contact @ 55° to C.A. -dark green very fine grained unit -possibly pillowed, but no good selvages -vesicular (?) fragment at 294.73-294.95m			{256.90-257.40} = POFS-10% 5.0-10.0% fracture/vein controlled pyrrhotite {260.00-262.00} = sph >P0-1% 0.0-0.5% fracture/vein controlled -trace fracture controlled py	
297.10 TO 307.00	e4.a,bx,as Felsic Volcanic fine grained breccia amygdaloids l/vesicular	-fine grained dark black to light yellow grey unit -sharp upper contact @ 57° to C.A. -visible fragments -very similar to above felsic breccia unit, but blocks are less well defined, smaller -beige mineral or mineral aggregate noted filling vesicles again from 305.3m to E.O.H.		-ankerite porphyroblasts to 15-20% of rock for first 2.3m of unit -pervasive weak to moderate chlorite alteration plus local strong fracture controlled chlorite alteration -pervasive, locally strong sericitisation and silicification	-nil to trace py	
307.00 TO 307.00	eSCH End-Of-Hole					

LOGGED BY: M. Collison

DRILL HOLE RECORD

HOLE NUMBER: J41-13

DATE: 12/05/1995

ASSAYS SHEET

HOLE NUMBER : J41-13

Sample	From (M)	To (M)	Lang. (M)	Cu ppm	Zn ppm	Au ppb	Ag ppm	Pb ppm	Co ppm	Cu/Zn ppm	Ni ppm	Pt ppb	Pd ppb	Comments
AR01838	248.70	249.70	1.00											
AR01839	249.70	250.00	0.30											
AR01840	250.00	251.00	1.00											
AR01841	251.00	252.00	1.00											
AR01842	252.00	252.83	0.83											
AR01843	252.83	253.33	0.50											
AR01844	253.33	254.33	1.00											
AR01845	254.33	255.33	1.00											
AR01846	255.33	256.33	1.00											
AR01847	256.33	257.33	1.00											
AR01848	257.33	258.33	1.00											
AR01849	258.33	259.33	1.00											
AR01850	259.33	260.33	1.00											
AR04601	260.33	261.33	1.00											
AR04602	261.33	262.33	1.00											

HOLE NUMBER : J41-13

ASSAYS SHEET

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DATE: 12/05/1995

GEOCHEMICAL ASSAY

HOLE NUMBER: J41-13

Sample	From (M)	To (M)	Length (M)	SI02	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 PPM	NAME	CHRM ID	ALUM	
AR04451	31.00	34.00	3.00																									
AR04452	61.00	64.00	3.00																									
AR04453	82.00	85.00	3.00																									
AR04454	91.00	94.00	3.00																									
AR04455	107.00	110.00	3.00																									
AR04456	126.00	129.00	3.00																									
AR04457	136.00	139.00	3.00																									
AR04458	154.00	157.00	3.00																									
AR04459	169.00	172.00	3.00																									
AR04460	199.00	202.00	3.00																									
AR04461	217.00	220.00	3.00																									
AR04462	231.00	234.00	3.00																									
AR04463	232.00	235.00	3.00																									
AR04464	247.00	250.00	3.00																									
AR04465	268.00	271.00	3.00																									
AR04466	289.00	292.00	3.00																									
AR04467	301.00	304.00	3.00																									

GEOCHEMICAL ASSAY

HOLE NUMBER: J41-13

HOLE NUMBER: J41-14
 PROJECT NAME: 8242
 PROJECT NUMBER: 008142
 CLAIM NUMBER: P-316102
 LOCATION: JAMIESON TOWNSHIP

DATE STARTED: 03/07/1995
 DATE COMPLETED: 03/12/1995
 DATE LOGGED: 03/16/1995

ALTERNATE COORDS GRID: UTM
 NORTH: 5362281.15M
 EAST: 457137.90E
 ELEV: 296.00

COLLAR SURVEY: NO
 ROD LOG: NO
 HOLE MAKES WATER: YES

DATE: 08/12/1995
 IMPERIAL UNITS: X
 METRIC UNITS: X

COLLAR DIP: -45° 0' 0"
 LENGTH OF THE HOLE: 182.70M
 START DEPTH: 0.00M
 FINAL DEPTH: 182.70M

ALTERNATE COORDS GRID: LINE
 NORTH: 11640N
 EAST: 97.0E
 ELEV: 296.00

GRID AZIMUTH: 206° 0' 0"
 GRID AZIMUTH: 180° 0' 0"

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

CONTRACTOR: DOMINIK
 CASING: 17.8m
 CORE STORAGE: KIDD CREEK MINE SITE
 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
121.92	0° 0' 0"	-43° 0' 0"	S		Dip only						
181.66	210°30' 0"	38°45' 0"	S								

John Pattison

HOLE NUMBER: J41-14

DRILL HOLE RECORD

DATE: 05/12/1995

FROM TO	ROCK TYPE	TEXTURE AND STRUCTURE	ANGLE TO CH	ALTERATION	MINERALIZATION	REMARKS
0.00 TO 17.80	409- Casing Overburden					
17.80 TO 33.85	41, h, s Felsic Volcanic flows (banded) RQD=50%	Grey, fine grained, flow banded. Tops appear to be normal.		Good silicification, some quartz veins.	Trace of pyrite.	-NR sample at: AR02822 27.00-30.00m
33.85 TO 57.65	41, s, n Felsic Volcanic fine grained amygdaloid RQD=70%	Grey fine grained. Elongated amygdules 2-15 mm long. Some variolitic and tuffaceous intervals.	55°	Moderate carbonatization. Silice and carbonate fill fractures and amygdules.		
57.65 TO 60.80	41, n, b, h, s Felsic Volcanic tuff spherulitic rhyolite RQD=70%	Rounded, ellisoidal, lapilli size, fragments and spherulites rich fragments in a darker spherulitic matrix.		Strong silicification.		-NR sample at: AR02823 57.6-60.8m
60.80 TO 66.30	41, s, s Felsic Volcanic fine grained amygdal- oidal/ vesicular RQD=80%	Grey with quartz carbonate veinlets. Some scattered fragments.		Moderate chloritization and carbonatization.		
66.30 TO 74.30	21, s, h, Y, s Mafic Volcanic fine grained massive RQD=85%	Greenish grey, massive. Lower contact is sharp with twenty cm of rhyolite.		Good chloritization, pervasive carbonatization.	Minor disseminated pyrite.	-NR Sample at: AR02824 71.0-74.0m

HOLE NUMBER: J41-14

DRILL HOLE RECORD

LOGGED BY: Jorge Jimenez

DATE: 05/12/1995

DRILL HOLE RECORD

FROM TO	ROCK TYPE	TEXTURE AND STRUCTURE	ANGLE TO CH	ALTERATION	MINERALIZATION	REMARKS
74.30 TO 89.20	±2, a.s.m, h.y.s. Mafic Volcanic fine grained massive RQD=85%	Massive mafic to intermediate with quartz-carbonate veins. Some hydrofractured intervals.		Pervasive carbonatization.	Minor pyrite.	-MR sample at: AR02825 82.0-85.0m
89.20 TO 130.80	±2, a.s.l.n, p.h.y.s. Mafic Volcanic fine grained flows variolitic RQD=85%	Good pillow selvages and hyaloclastites.		Strong chloritization, pervasive carbonatization, quartz carbonate veins and veinlets.	Minor pyrite.	-MR sample at: AR02826 112.0-118.0
130.80 TO 132.40	±5, a.s. Sedimentary fine grained thinly laminated RQD=20%	Graphitic argillite.	50°	Carbonaceous and quartz carbonate veins.	<1% pyrite stringers.	
132.40 TO 138.62	±4, b.e. n.h.s. Pelitic Volcanic breccia amygdaloidal/vesicular spherulitic RQD=85%	Spherulitic fragments may contain <1% disseminated pyrite.		Moderated silicification within fragments and highly chloritized matrix.	<1% disseminated pyrite.	-MR sample at: AR02827 132.0-136.0m
138.62 TO 154.10	±4, a.e.h s. Pelitic Volcanic fine grained amygdaloidal/vesicular	Amygdules are 2 to 5mm across. Very scattered lapilli fragments.	55°	Strong silicification.	Trace of pyrite.	-MR sample at: AR02828 150.0-153.0m

DRILL HOLE RECORD

DATE: 05/12/1995

DRILL HOLE RECORD

HOLE NUMBER: J41-14		DRILL HOLE RECORD				
FROM TO	ROCK TYPE	TEXTURE AND STRUCTURE	ANGLE TO CA	ALTERATION	MINERALIZATION	REMARKS
154.10 TO 182.70	RQP-85H ±2.5 n. h.w Mafic Volcanic fine grained High Aluminum Tholeiitic RQP-85H	154.1-182.7m Massive, more spherulitic, no amygdulites. Some pale colored, actinolitic? dyke/sills cutting at 60° to 70° to CA.				-MR sample at: AR02829 179.0-182.0m
182.70 TO 182.70	E.O.H.					

DRILL HOLE RECORD

LOGGED BY: Jorge Jimenez

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HOLE NUMBER : J41-14

GEOCHEMICAL ASSAY

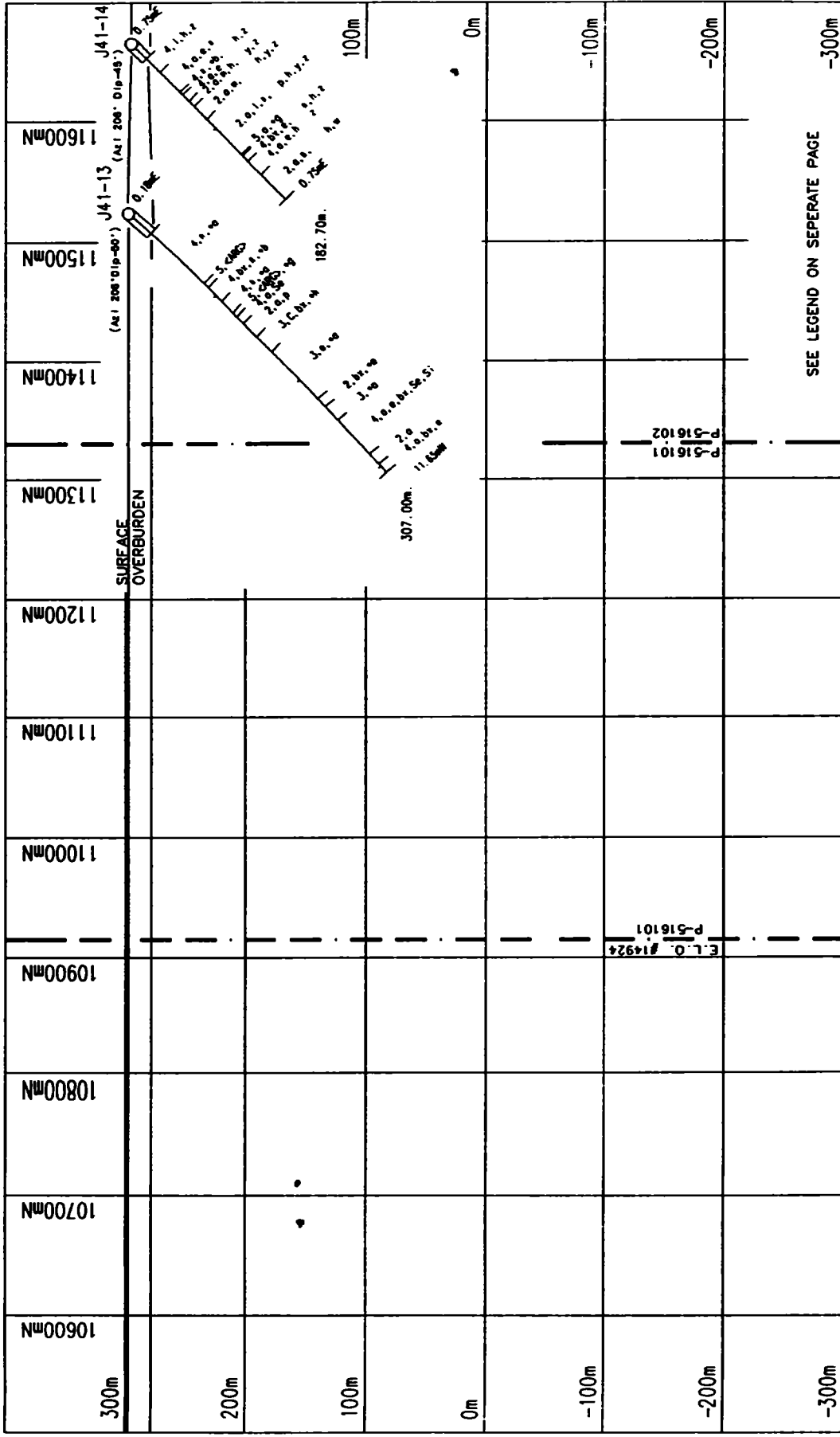
DATE: 12/08/1995

Sample	From (M)	To (M)	Leng. (M)	SI02	AL2O3	CAO	MOO	NA2O	K2O	FE2O3	TIO2	P2O5	MNO	CR2O3	LOI	SUM	Y PPM	ZR PPM	BA PPM	CU PPM	ZN PPM	NI PPM	CR FIELD PPM	CHEN ID	ALUM	
AR02822	27.00	30.00	3.00																							
AR02823	57.80	60.80	3.00																							
AR02824	71.00	74.00	3.00																							
AR02825	82.00	85.00	3.00																							
AR02826	112.00	115.00	3.00																							
AR02827	133.00	136.00	3.00																							
AR02828	150.00	153.00	3.00																							
AR02829	179.00	182.00	3.00																							

HOLE NUMBER: J41-14

GEOCHEMICAL ASSAY

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11600mN	J41-14 (At 208° Dip-80°)	J41-13 (At 208° Dip-80°)	11400mN	11300mN	11200mN	11100mN	11000mN	10900mN	10800mN	10700mN	10600mN
11500mN											
11400mN											
11300mN											
11200mN											
11100mN											
11000mN											
10900mN											
10800mN											
10700mN											
10600mN											
300m											
200m											
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0m											
-100m											
-200m											
-300m											
-400m											
-500m											

SEE LEGEND ON SEPERATE PAGE

FALCONBRIDGE LIMITED
Exploration Division
Timmins, ONTARIO

JAMIESON TOWNSHIP
DIAMOND DRILL SECTION 97+00 E. (+/-25m)
LOOKING NORTHWEST (266°)
ROB8 Twp.

Traced by : ARZES
Drawn by : JAP
Supervised by :
Revised by : John Patterson

Approved by :
Plan no. :
Scale : 50 100 150 200 (metres)

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 | Heterolithic |
| c | Coarse Grained | D | Feldspar Phyrlic |
| d | Quartz-Feldspar Phyrlic | E | Chert |
| e | Amygdaloidal/Vesicular | F | Wacke |
| f | Primary Fragmentals | G | Leucoxene Bearing |
| g | Graphitic/Argillaceous | H | Basaltic Komatiite |
| h | Tholeiitic | J | Pyroxenite |
| i | Alkalic | K | Net Textured |
| j | Calc-Alkalic | L | Peridotite |
| k | Komatiitic | M | Dunite |
| l | Flows (banded) | N | Ophitic |
| m | Massive | P | Porphyritic |
| n | Variolitic/Spherulitic | Q | Quartz Phyrlic |
| p | Pillowd | R | Polysutured |
| q | Quartz Phyrlic | S | Fractured |
| r | Oxide Iron Formation | T | Gabbroic Textured |
| s | Sulphides, Exhalites | U | Pyroxene Spinifex |
| t | Pyroclastic | V | Olivine Spinifex |
| u | High Mg | W | Skeletal/Crescumulate |
| v | High Fe | X | Adcumulate |
| w | High Al | Y | Mesocumulate |
| x | Andesite | Z | Orthocumulate |
| y | Icelandite | | |
| z | Highly Evolved (Y>60) | | |

ROCK NAMES MUST HAVE ALL MODIFIERS COMMA DELIMITED AND CAN BE NO LONGER THAN 16 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
- Rs 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 | Block (>64mm)/Xenolith | *q | Augen |
| *e | Autoclastic/Hyaloclastic | *r | Porphyroblastic |
| *f | Thickly Laminated | *s | Hornfels |
| *g | Thinly Laminated | *t | foliated/sheared |
| *h | Clast Supported | *u | folded |
| *i | Matrix Supported | *v | boudinage |
| *j | Granule (grit 2-4mm) | *w | fragmental (felsic>mafic) |
| *k | Pebble (4-64mm) | *x | fragmental (mafic>felsic) |
| *l | Cobble (64-256mm) | *y | Crystal Tuff (>50% of frags) |
| *m | Boulder (>256) | *z | Lithic Tuff (>50% of frags) |

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 |

Example: CpB3% = Chalcopyrite, Bedded, 3%

PERCENTAGE

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



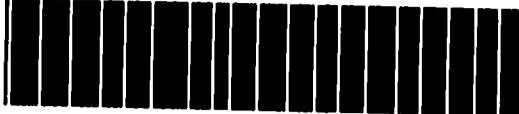
Report of Work Conducted After Recording Claim

Transaction Number
W9560.00247

Ontario

Mining Act

Personal information collected on this form is obtained under the authority of the this collection should be directed to the Provincial Manager, Mining Lands, M Sudbury, Ontario, P3E 6A5, telephone (705) 670-7264.



42A12SE0011 W9560.00247 JAMIESON

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
Address P.O. Box 1140, 571 Moneta Ave Timmins, Ontario P4N 7H9		Telephone No. (705)267-1188
Mining Division Porcupine	Township/Area Jamieson, Robb + Loveland Twp	M or G Plan No. 6-3986, 3968, M-293
Dates Work Performed From: March 8, 1995		To: March 16, 1995

Work Performed (Check One Work Group Only)

Work Group	Type
<input type="checkbox"/> Geotechnical Survey	
<input checked="" type="checkbox"/> Physical Work, Including Drilling	Diamond drilling Holes J41-13 and J41-14
<input type="checkbox"/> Rehabilitation	
<input type="checkbox"/> Other Authorized Work	
<input type="checkbox"/> Assays	
<input type="checkbox"/> Assignment from Reserve	

Total Assessment Work Claimed on the Attached Statement of Costs \$ **30,865**

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
Dominik Drilling	401 King St., Porcupine, Ontario
M. Collison	P.O. Box 1140, 571 Moneta Ave Timmins Ont. P4N 7H9
J. Jimenez	P.O. Box 1140, 571 Moneta Ave Timmins, Ont. P4N 7H9

(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 May 15 '95	Recorded Holder or Agent (Signature)
--	---------------------------	--

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 John Pattison P.O. Box 1140 Timmins Ontario P4N 7H9		
Telephone No. (705)267-1188	Date May 15 '95	Certified By (Signature)

For Office Use Only

Total Value Cr. Recorded \$30,865	Date Recorded AUG. 13/95	Mining Recorder T. Binkley	Received Stamp RECORDED (c) MAY 15 1995 TB 9:00 PORCUPINE MINING DIVISION
	Deemed Approval Date AUG. 13/95	Date Approved JULY 28/95	
	Date Notice for Amendments Sent		

Sheet1

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 Future Date
	P-516102	1	\$27,778		\$12,000	\$15,778
	P-516101	1	\$3,087		\$2,800	\$287
	P-1189497	1		\$400		
	P-1189498	1		\$400		
	P-1189499	1		\$400		
	P-1189509	1		\$400		
	P-1189869	2		\$800		
	P-1190101	2		\$800		
	P-1190102	2		\$800		
	P-1190103	3		\$1,200		
	P-1190104	6		\$2,400		
	P-1190117	2		\$800		
	P-1190118	1		\$400		
	P-1190122	1		\$400		
	P-1190123	1		\$400		
	P-1190130	1		\$400		
	P-1190131	1		\$400		
	P-1190133	1		\$400		
	P-1190134	1		\$400		
	P-1190135	1		\$400		
	P-1190136	1		\$400		
	P-1190137	1		\$400		
	P-1190139	1		\$400		
	P-1190140	1		\$400		
	P-1190143	1		\$400		
	P-1190144	1		\$400		
	P-1190151	2		\$800		
	27		\$30,865	\$14,800	\$14,800	\$16,065

Total Number of Claims

Total Value Work Done

Total Value Work Applied

Total Assigned From

Total Reserve



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
W9560, 00 247

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 <i>core logging</i> Main-d'œuvre	3520	
	Field Supervision Supervision sur le terrain		3520
Contractor's and Consultant's Fees Droits de l'entrepreneur et de l'expert- conseil	Type <i>Dominik Drilling</i>	26,370	
			26,370
Supplies Used Fournitures utilisées	Type		
Equipment Rental Location de matériel	Type <i>Truck rental</i>	975	
			975
Total Direct Costs Total des coûts directs			30865

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			
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)		Valueur 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
	x 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.

Valueur totale du crédit d'évaluation	Evaluation totale demandée
	x 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 Senior Project Geologist Falconbridge Limited 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 des travaux d'évaluation sur les terrains indiqués dans la formule de rapport de travail ci-joint.

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

à faire cette attestation.

Signature	Date
<i>[Signature]</i>	May 15, 1995

W 503

MB
DMD
Twp

Thorburn Twp. (M.601)

THE TOWNSHIP OF
LOVELAND
DISTRICT OF COCHRANE
PORCUPINE MINING DIVISION

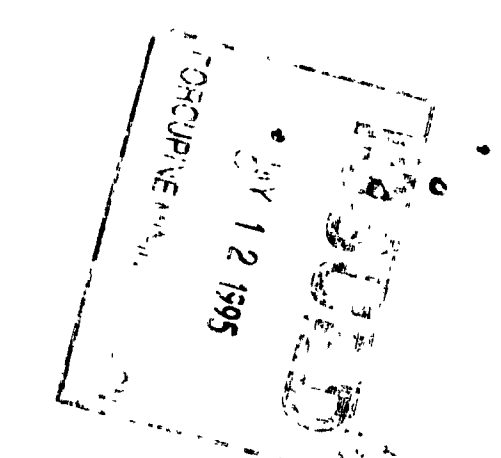
SCALE: 1-INCH = 40 CHAINS

LEGEND

- PATENTED LAND
 - CROWN LAND SALE
 - LEASES
 - LOCATED LAND
 - LICENSE OF OCCUPATION
 - MINING RIGHTS ONLY
 - SURFACE RIGHTS ONLY
 - ROADS
 - IMPROVED ROADS
 - KING'S HIGHWAYS
 - RAILWAYS
 - POWER LINES
 - MUSKOGEE OR MUSKOGEE
 - MINES
 - CANCELLED
- ⊙ C.S.
 - ⊙ L.C.
 - ⊙ L.O.
 - ⊙ M.R.O.
 - ⊙ S.R.O.

NOTES

- 400' Surface Rights Reservation along the shores of all lakes and rivers
- This township lies within the Municipality of CITY OF TIMMINS.
- ROAD
- FE THIS TWP SUBJECT TO FORESTRY ACTIVITY IN 1995/96 - FURTHER INFO AVAILABLE ON FILE.



Rec'd Feb 17/83
PLAN NO. M-293

ONTARIO
MINISTRY OF NATURAL RESOURCES
SURVEYS AND MAPPING BRANCH

— FALCONBRIDGE CLAIM BOUNDARY
 — Claim worked
 — Claim where reserve is coming from Robb Twp. (M.309)
 — Claim where assessment credits are being applied

Karl K



THE INFORMATION THAT APPEARS ON THIS MAP HAS BEEN COMPILED FROM VARIOUS SOURCES AND ACCURACY IS NOT GUARANTEED. THOSE WISHING TO STAKE A CLAIM SHOULD CONSULT WITH THE MINISTRY OF NATURAL RESOURCES, NORTHERN DEVELOPMENT AND MINES, FOR ADDITIONAL INFORMATION ON THE STATUS OF LANDS SHOWN HEREON.

Legend

- Boundary
- Water
- Road
- Utility
- Control Point
- Transmission Line
- Utility Pole
- Wharf, Dock, Pier
- Wooded Area

AREAS WITHDRAWN FROM DISPOSITION

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

Disposition Only by: Disposition

MINING RIGHTS ONLY WITHDRAWN UNDER SECTION 36 OF THE MINES ACT, R.S.O. 1990
 ORDER NO. W-27197-NR DATED MARCH 12, 1997

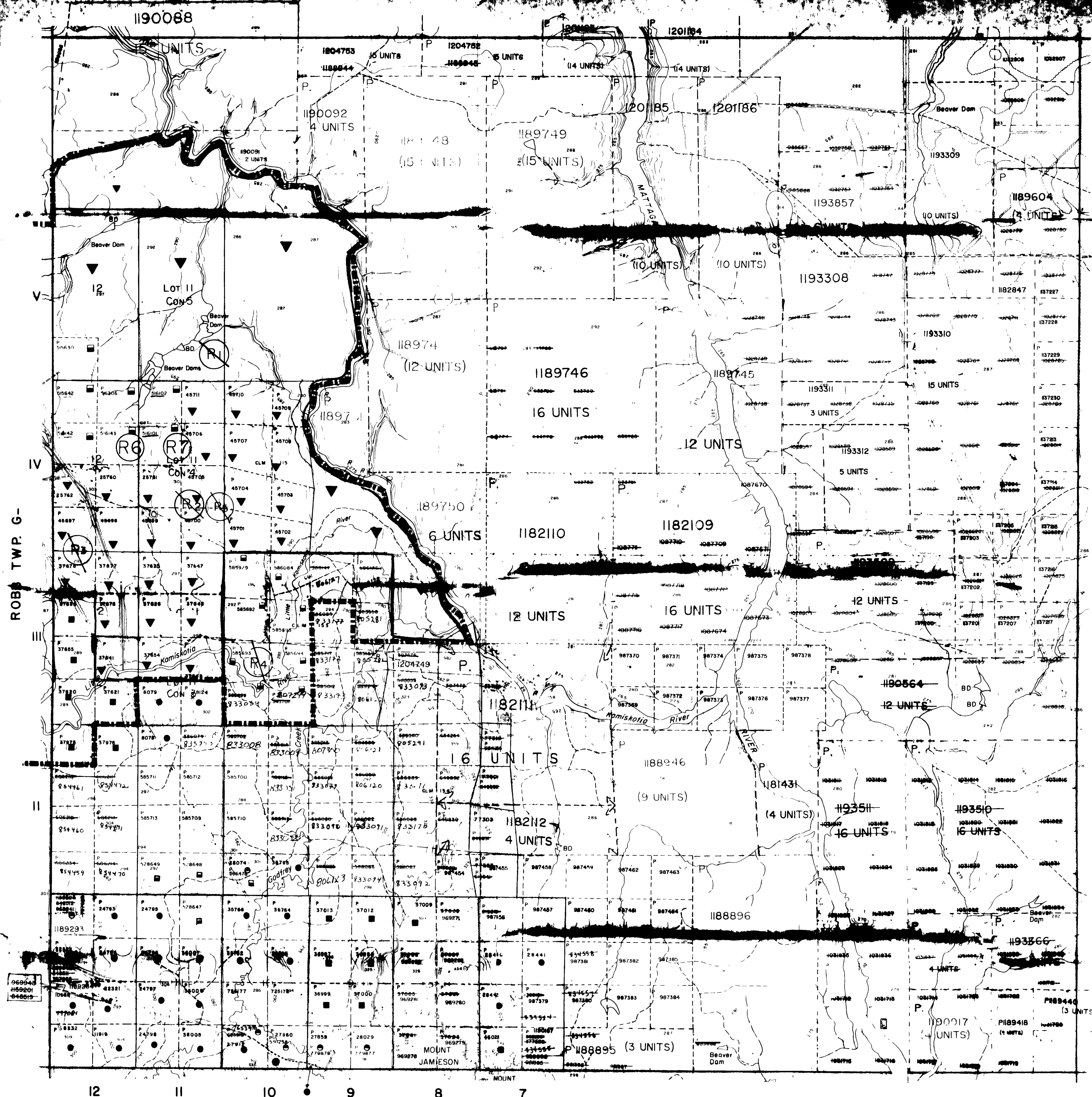
MINING AND SURFACE RIGHTS WITHDRAWN UNDER SECTION 36 OF THE MINES ACT, R.S.O. 1990
 ORDER NO. W-27197-NR DATED MARCH 12, 1997

MINING RIGHTS ONLY WITHDRAWN UNDER SECTION 36 OF THE MINES ACT, R.S.O. 1990
 ORDER NO. W-4180-NR DATED MAY 3, 1990

MINING AND SURFACE RIGHTS RE-OPENED UNDER SECTION 36 OF THE MINES ACT, R.S.O. 1990
 ORDER NO. W-27197-NR DATED MARCH 12, 1997

MINING AND SURFACE RIGHTS WITHDRAWN UNDER SECTION 36 OF THE MINES ACT, R.S.O. 1990
 ORDER NO. W-27197-NR DATED MARCH 12, 1997

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 ON THE STATUS OF THE LANDS SHOWN HEREON.



ROB TWP. G-3984

GODFREY TWP. G-3991

DISPOSITION OF CROWN LANDS

TYPE OF DOCUMENT

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
 RESERVATION
 CANCELLED
 SAND & GRAVEL

NOTES

FLOODING RIGHTS TO AREAS ALONG THE MATTAGAMI RIVER TO H.E.R.C.

FALCONBRIDGE CLAIM boundary
 Claim worked
 Claim where reserve is coming from
 Claim where assessment credits are being applied

SCALE 1:20 000

500 Metres

500 0 1000 2000 3000 4000 5000 Feet

TOWNSHIP

JAMIESON

M.N.R. ADMINISTRATIVE DISTRICT

TIMMINS

MINING DIVISION

PORCUPINE

LAND TITLES / REGISTRY DIVISION

COCHRANE

Ministry of Natural Resources
 Land Management Branch

Ontario

Date: FEBRUARY, 1984

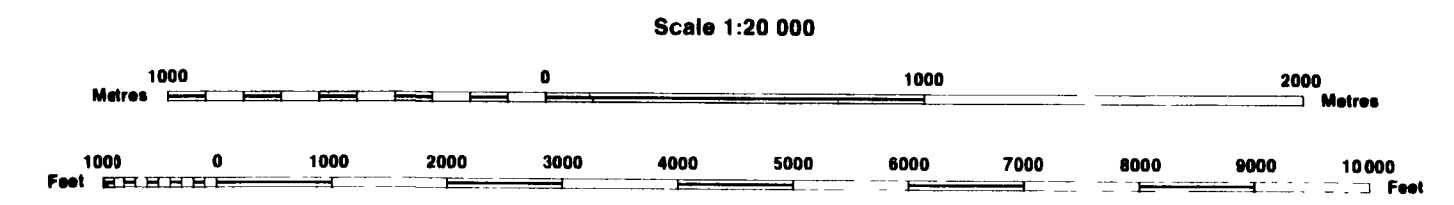
Number: **G-3986**

Received March 15/84

INDEX TO LAND DISPOSITION

PLAN
G-3968
TOWNSHIP
ROBB

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



Contour Interval 10 Metres

AREAS WITHDRAWN FROM DISPOSITION

- MRO - Mining Rights Only
- SRO - Surface Rights Only
- M + S - Mining and Surface Rights

Description Order No Date Disposition File

(MNR) MNR RESERVE

(X) THIS TWP IS SUBJECT TO FOREST ACTIVITIES IN 1992/93. FURTHER INFORMATION AVAILABLE ON FILE.

(R2) PLANS OF SUBDIVISION - NOT OPEN FOR STAKING

(MNR) PROPOSED SURFACE RIGHTS DISPOSITION UNDER THE P.L.A. - NOTICE RECEIVED MARCH 7, 1991

(X) THIS TWP IS SUBJECT TO FOREST ACTIVITY IN 1994/95. FURTHER INFORMATION ON FILE.

(MNR) MINING AND SURFACE RIGHTS WITHDRAWN UNDER SECTION 30 OF THE MINING ACT, R.S.O. 1990. ORDER NO. O-P-12/93 MEX. DATED SEPT. 22, 1993.

(MNR) MINING AND SURFACE RIGHTS RE-OPENED UNDER SECTION 30 OF THE MINING ACT, R.S.O. 1990. ORDER NO. O-P-22/93 MEX DATED SEPT. 22, 1993. SALES AND EXCEPTING THE MINING RIGHTS ONLY OF E.L.A. WORK AND LEASING CLAIMS CONTAINED WITHIN C.L.M. 353.

(MNR) FALLOWABLE CLAIM ROUNDRY

(MNR) CLAIM WORKED

(MNR) CLAIM WORKED RESERVE CLAIMS FROM

(MNR) CLAIM WHERE ASSIGNMENT CREDITS ARE BEING APPLIED

SYMBOLS

- Boundary
- Township, Meridian, Baseline
- Road allowance, surveyed shoreline
- Lot/Concession, surveyed unsurveyed
- Parcel, surveyed unsurveyed
- Right-of-way, road railway utility
- Reservation
- Cliff, Pit, Pile
- Contour
- Interpolated
- Depression
- Control point (horizontal)
- Flooded land
- Mine head frame
- Pipeline (above ground)
- Railway; single track double track abandoned
- Road; highway, county, township access trail, bush
- Shoreline (original)
- Transmission line
- Wooded area

DISPOSITION OF CROWN LANDS

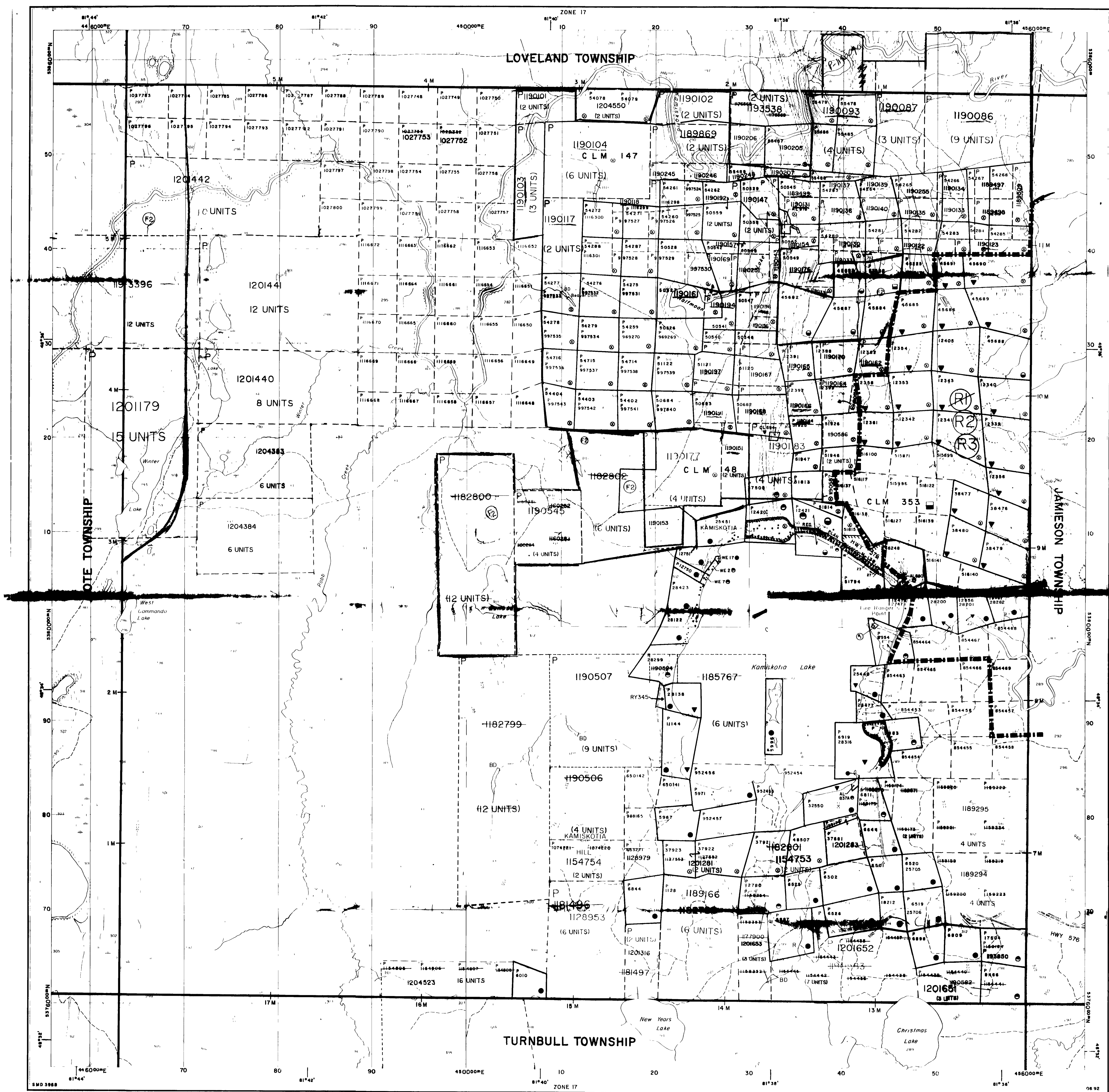
- Patent
- Surface & Mining Rights
- Surface Rights Only
- Mining Rights Only
- Lease
- Surface & Mining Rights
- Surface Rights Only
- Mining Rights Only
- Licence of Occupation
- Order-in-Council
- Cancelled
- Reservation
- Sand & Gravel

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 ON THE STATUS OF THE LANDS SHOWN HEREON.

ACTIVATED AUGUST 13, 1997
BY D.C.
CHECKED BY G.W.

Map base and land disposition drafting by Surveys and Mapping Branch, Ministry of Natural Resources

The disposition of land, location of lot fabric and parcel boundaries on this index was compiled for administrative purposes only



P-1190167
P-1190170



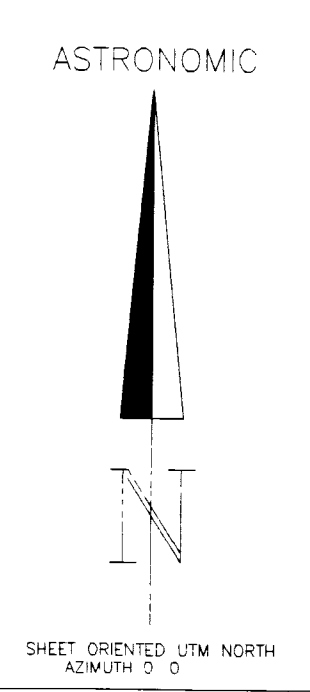


- PHYSICAL WORK**
- 1996/99 Diamond Drill Hole
 - Overburden Drill Hole
 - Mine, dump or slag pile (solid, abandoned)
 - Mine (tentative, inclines, raise, waste)
 - Ash, Ramp
 - Crust Pit (solid, abandoned)

- CULTURAL AND PHYSIOGRAPHIC FEATURES**
- Open Line Fence
 - 20m boundary
 - 1/2" weather road (dashed, gravel)
 - 4" wheel drive road
 - Trail
 - Boundary
 - Composite
 - Power Line (single line, regular line)
 - Telephone Line (dashed, unswitched)
 - Railroad Track
 - Tower
 - Bridge
 - River (open, rapid)
 - Intermittent Stream
 - Lake
 - Swamp
 - Exposed
 - Open River
 - O.S.S. Surveyed, inspected survey, control, unobserved, witness, or water
 - Grid
 - Survey Pin (dotted, unobserved)
 - Lot/Concession Corner Pin (dotted, unobserved)
 - Lot or Concession Line
 - Claim post

INDEX MAP

4755395	4405395	4505395	4505395	4555395	4605395	4655395	4705395	4755395
4755392	4405392	4505392	4505392	4555392	4605392	4655392	4705392	4755392
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4755368	4405368	4505368	4505368	4555368	4605368	4655368	4705368	4755368



FALCONBRIDGE LIMITED

ROBB AND JAMESON TOWNSHIPS
**P-516101, P-516102
 DRILL HOLE
 LOCATIONS**

Scale: 1:5000 (Metric)