

FROM TO	ROCK TYPE	TEXTURE AND STRUCTURE	ANGLE TO CA	ALTERATION	MINERALIZATION	REMARKS
0.00 TO 44.40	Casing «- ob »					- casing pulled.
44.40 TO 49.90	Inter- mediate Volcanic Tuff «3,t,*a»	<ul style="list-style-type: none"> - medium grey to grey-green with orange. - 1mm, dark grey and light grey shards(?) are moderately to tightly packed in a medium grey-green, fine grained matrix. - weak fabric/foliation at 60°/ca given by alignment of shards. - downhole contact lost in broken core. 		<ul style="list-style-type: none"> - pervasive iron carbonate alteration has reacted with groundwater to give core an orange colour. - cut by <1% carbonate veins. - some pyrite cubes are completely oxidized. 	<ul style="list-style-type: none"> - 1%, finely disseminated, anhedral pyrite. 	
49.90 TO 69.50	Graphitic Crystal- Lithic Tuff «5,g,*z»	<ul style="list-style-type: none"> - black and dark grey with white. - moderately developed irregular foliation at 45-60°/ca. - main part of interval is a moderately to strongly conductive, crystal-lithic graphitic tuff containing: <ul style="list-style-type: none"> - 2%, 2mm, euhedral, sausseritized feldspar crystals. - 10%, light grey, subrounded, submillimetre fragments. - 15%, medium to dark grey, irregular, subangular to angular, 2-10mm, graphitic and argillaceous fragments. - 3%, 1-10mm, rounded pyrite nodules and 3-20mm, subangular, elongate pyrite fragments. - matrix is fine grained, dark grey, weakly pyritic, typically massive graphitic argillite. - intercalated with intermediate volcanic tuff similar to 44.4-49.9m. Pale grey, weakly pyritic, massive, fine grained, and locally weakly deformed. - graphitic fault gouge at 52.9-53.0m and 69.2-69.3m - not magnetic. - downhole gradational into in situ brecciated intermediate volcanic with argillaceous matrix. 		<ul style="list-style-type: none"> - trace, red iron oxide staining on fracture surfaces. 	<ul style="list-style-type: none"> - 3% pyrite nodules and fragments in graphitic argillite intervals. - 0.5% finely disseminated pyrite in both argillite and volcanic rock intervals. - pyrite nodules often have coarser grained, brighter yellow rims on one side or at the tips of more ovate nodules indicating possible recrystallization in a pressure shadow. 	- 3m of core lost due to grinding in graphitic intervals.
69.50 TO 106.08	Inter- mediate Volcanic «3,m,t?»	<ul style="list-style-type: none"> - medium grey to green-grey. - massive to locally weakly foliated at 60°/ca. - fine grained with granular texture. - moderately siliceous. 		<ul style="list-style-type: none"> - pervasive pale green to yellow alteration of the rock (weak sercitization?). - locally, trace flakes of muscovite 	<ul style="list-style-type: none"> - trace disseminated pyrite. - up to 5% pyrite in interflow sediments and associated with quartz and carbonate veins marking the edge 	

FROM TO	ROCK TYPE	TEXTURE AND STRUCTURE	ANGLE TO CA	ALTERATION	MINERALIZATION	REMARKS
		<ul style="list-style-type: none"> - may be a series of thick (5-10 m) flows with minor interflow sediments and quartz veining. - moderately hard. - not magnetic, not conductive. - 2%, <1mm, pale brown, weakly acicular, randomly oriented mineral may be a carbonate or altered chlorite? - (79-81.3m) «3,*a» - intermediate tuff. Interval of fine grained, foliated volcanic rock as defined by the alignment of 20%, 1 mm, dark grey laths at 44.4-49.9m. Texture is granular, contacts are gradational. - 98.2-101m - chlorite/amphibole porphyritic (3%, 0.1mm, dark green laths) intermediate dyke with irregular chilled margins cuts core at low angles. - downhole contact is diffuse and at approximate start of mafic volcanic unit. 		<ul style="list-style-type: none"> - near downhole contact. - cut by thin carbonate veins (1mm, <1%). - faint, pale green halos around thin veinlets. - locally weakly bleached intervals near downhole contact are weakly reactant to HCl (6%). - 78.5-78.9m - a 'crackle breccia' texture is weakly developed. 	<ul style="list-style-type: none"> - of interflow sediments. - euhedral pyrite on quartz-filled conjugate fractures. - 78.50-78.9 - rare chlorite + pyrite veinlets in weak crackle breccia texture. 	
106.08 TO 188.00	Pillowed Mafic Volcanic «2,a,p,<Cb> »	<ul style="list-style-type: none"> - medium to pale grey green. - fine grained, massive to locally moderately foliated (interpillow sediments). - cut by 10%, angular, white carbonate-filled fractures. - selvages are dark green, 1-20 cm wide (average 1-3 cm). Selvages are typically chloritic and contain 5%, 1-10mm, irregular carbonate blebs with rare quartz blebs/veining. Becomes epidote-rich lower in the hole. - pillows are medium green, vary in size from 5cm to 30-50 cm. Rims are typically weakly pale green (bleached) and contain 1 mm, rounded, slightly irregular, pale green varioles. - 112.4-113.0m - interflow breccia with 1-4 cm fragments have dark green 'soft' edges, are moderately packed, and weakly elongated at 60°/ca. - 133-145m - pillows are dark green and are mottled by a pale green, rounded, 1mm, carbonate spots, and criss-crossed by fine carbonate veinlets. These pillows have perpendicular fractures along the rims that are also carbonate filled. - 144.3-146.3m - massive, fine to medium grained intermediate dyke is hard, cross-cut by rare carbonate veinlets and has contacts at 		<ul style="list-style-type: none"> - short, 1-3 cm, irregular and angular fractures up to 3% in pillow interiors are chlorite and carbonate filled. - pervasive carbonate alteration except for minor bleached intervals which are more siliceous and not reactant with HCl (6%). - trace, fine grained, black mineral(?) occurs locally in the carbonate veins with trace pyrite. - locally, pillows are also altered by fine, irregular, pale green carbonate veinlets up to 15%. - epidote in selvages is 1mm, subrounded and bright green. Overall greenish colour of much of interval suggests pervasive epidote alteration. 	<ul style="list-style-type: none"> - trace euhedral pyrite (<1mm) disseminated in pillow selvages typically associated with carbonate blebs. 	

HOLE NUMBER: LIT66-01

DRILL HOLE RECORD

DATE: 04/22/1996

FROM TO	ROCK TYPE	TEXTURE AND STRUCTURE	ANGLE TO CA	ALTERATION	MINERALIZATION	REMARKS
		<p>20-35°/ca. Adjacent mafic at downhole contact is beige and bleached over 20 cm.</p> <p>- 150-157m - beige and medium pea-green, moderately bleached and moderately to strongly foliated interval at 50-60°/ca is probably a thicker interflow sediment. Cross-cut by carbonate veinlets but not pervasively carbonate altered. Locally almost mylonitic, with rare kink bands.</p> <p>- 170.7-172.16m - medium grey, chlorite(?) and feldspar(?) porphyritic intermediate dyke. Contacts are irregular and margins are chilled. Chlorites(?) are dark green, 5%, 0.5-2mm, subrounded and may have been altered pyroxenes or biotites. Feldspars are pale grey, equant, 5%, 1-2mm, and have altered cores.</p>				

HOLE NUMBER: LIT66-01

DRILL HOLE RECORD

LOGGED BY: C.A. Petch

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HOLE NUMBER : LIT66-01

ASSAYS SHEET

DATE: 22/04/1996

Sample	From (M)	To (M)	Leng. (M)	Cu ppm	Zn ppm	Au ppb	Ag ppm	Pb ppm	Co ppm	Cu/Zn	Ni ppm	Est.Ni ‰	Est.Po ‰	Est.Py ‰	Est.Cp ‰	Est.Sp ‰	Est.Gn ‰	ROCK TYPE	Comments
AT03174	0.00	0.00	0.00	12	116	3	0.3	13			7							KRAP	
AT03159	47.50	49.90	2.40	63	103	7	0.1	10			163							2,t,cb	cut off
AT03160	49.90	50.20	0.30	106	232	24	0.5	22			89							5,g	15% py
AT03161	50.20	51.50	1.30	66	100	68	0.4	17			49							3t, 5g	3% py
AT03162	51.50	53.00	1.50	65	604	72	0.5	20			49							5,g,t	3% py
AT03163	53.00	57.00	4.00	75	638	92	0.5	18			47							aa	lost core
AT03164	57.00	58.50	1.50	106	307	7	0.1	1			58							3,y	1% py
AT03165	58.50	60.00	1.50	86	289	<2	0.1	1			52							3t	lost core
AT03166	60.00	61.00	1.00	89	368	<2	0.3	13			41							5,g,t	3% py
AT03167	61.00	62.00	1.00	67	176	17	0.4	16			42							aa	
AT03168	62.00	63.50	1.50	49	132	<2	0.3	13			35							aa	
AT03169	63.50	65.00	1.50	38	213	<2	0.4	16			36							aa	
AT03170	65.00	67.50	2.50	93	351	3	0.5	24			58							aa	
AT03171	67.50	68.00	0.50	208	876	<2	0.2	1			59							3,t	
AT03172	68.00	69.50	1.50	141	704	<2	0.3	7			77							3t, 5g	
AT03173	69.50	71.00	1.50	120	279	<2	0.1	1			54							3,t	1% py
AT03175	71.00	72.50	1.50	100	92	<2	0.1	1			45							aa	
AT03176	72.50	74.00	1.50	89	87	<2	0.1	1			53							3,t	cut off
AT03177	99.60	101.00	1.40	80	124	44	0.2	1			35							8	cut off
AT03178	101.00	102.50	1.50	139	300	31	0.2	1			61							3t, qv, 5	2% py
AT03179	102.50	104.00	1.50	92	111	<2	0.1	1			60							3,t, qv	cut off
AT03180	168.96	169.89	0.93	111	94	<2	0.1	1			75							2,p	
AT03181	169.89	170.70	0.81	119	112	<2	0.1	1			74							2,p	1% py
AT03182	170.70	171.61	0.91	45	80	<2	0.1	1			236							8	cut off

HOLE NUMBER: LIT66-01

ASSAYS SHEET

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HOLE NUMBER : LIT66-01

GEOCHEMICAL ASSAY

DATE: 22/04/1996

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
AT02372	47.00	50.00	3.00	43.76	10.54	10.44	6.53	0.93	0.42	10.87	0.54	0.08	0.18	0.09	16.44	100.82	14	28		45	85	150		3,t,Cb	2hu!	89
AT02373	57.00	59.70	2.70	64.37	14.34	3.91	1.56	2.68	0.82	3.49	1.75	0.18	0.11	0.09	7.00	100.30	26	98		80	275	65		3,t?	2(h)w	194
AT02374	74.00	77.00	3.00	60.97	14.50	4.95	1.18	2.67	0.98	4.74	1.74	0.18	0.10	0.06	8.30	100.37	34	70		95	40	50		3,t	2hw!	169
AT02375	89.00	92.00	3.00	56.25	13.87	6.82	2.13	2.54	0.74	6.02	1.69	0.16	0.14	0.07	10.50	100.93	32	104		80	30	55		3,t	2(h)w!	137
AT02376	98.50	100.50	2.00	50.12	13.93	7.67	4.54	4.21	0.50	7.89	0.69	0.50	0.14	0.03	10.71	100.93	18	104		20	65	35		8	8(j)y!	113
AT02377	107.00	110.00	3.00	44.41	12.46	9.41	5.86	1.63	0.56	11.50	0.82	0.12	0.22	0.05	13.65	100.69	18	32		85	75	85		2,p	2hv!	107
AT02378	133.00	135.00	2.00	49.88	14.02	8.71	5.80	2.72	0.16	12.26	0.93	0.12	0.24	0.05	6.06	100.95	24	34		65	60	65		2,p core	2hv	121
AT02379	150.00	152.00	2.00	43.11	13.47	10.34	4.61	1.05	1.10	11.11	0.87	0.10	0.23	0.05	14.17	100.21	18	32		200	105	65		2,t?	2hv!	108
AT02380	173.00	176.00	3.00	51.44	14.59	10.02	4.26	2.38	0.14	10.22	0.99	0.12	0.21	0.05	5.93	100.35	22	42		105	65	75		2,p	2hw	116

HOLE NUMBER: LIT66-01

GEOCHEMICAL ASSAY

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HOLE NUMBER : LIT66-01

GEOCHEMICAL ASSAYS

DATE: 22/04/1996

Sample	From (M)	To (M)	Leng. (M)	RB PPM	SR PPM	CO2 %	AG PPM	AU PPB	CO PPM	PB PPM	S PPM	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	
AT02372	47.00	50.00	3.00						50		100	155																		
AT02373	57.00	59.70	2.70						60		3700	275																		
AT02374	74.00	77.00	3.00						60		2800	285																		
AT02375	89.00	92.00	3.00						55		400	295																		
AT02376	98.50	100.50	2.00						25		400	115																		
AT02377	107.00	110.00	3.00						40		<100	190																		
AT02378	133.00	135.00	2.00						35		<100	220																		
AT02379	150.00	152.00	2.00						40		<100	205																		
AT02380	173.00	176.00	3.00						50		<100	225																		

HOLE NUMBER: LIT66-01

GEOCHEMICAL ASSAYS

PAGE: 7

HOLE NUMBER : LIT66-01

ASSAYS SHEET

DATE: 19/04/1996

Sample	From (M)	To (M)	Leng. (M)	Cu ppm	Zn ppm	Au ppb	Ag ppm	Pb ppm	Co ppm	Cu/Zn	Ni ppm	Est. Ni %	Est. Po %	Est. Py %	Est. Cp %	Est. Sp %	Est. Gn %	ROCK TYPE	Comments
AT03174	0.00	0.00	0.00	12	116	3	0.3	13			7								
AT03159	47.50	49.90	2.40	63	103	7	0.1	10			163							KRAP	
AT03160	49.90	50.20	0.30	106	232	24	0.5	22			89							2, t, cb	cut off
AT03161	50.20	51.50	1.30	66	100	68	0.4	17			49							5, g	15% py
AT03162	51.50	53.00	1.50	65	604	72	0.5	20			49							3t, 5g	3% py
AT03163	53.00	57.00	4.00	75	638	92	0.5	18			47							5, g, t	3% py
AT03164	57.00	58.50	1.50	106	307	7	0.1	1			58							aa	lost core
AT03165	58.50	60.00	1.50	86	289	<2	0.1	1			52							3, y	1% py
AT03166	60.00	61.00	1.00	89	368	<2	0.3	13			41							3t	lost core
AT03167	61.00	62.00	1.00	67	176	17	0.4	16			42							5, g, t	3% py
AT03168	62.00	63.50	1.50	49	132	<2	0.3	13			35							aa	
AT03169	63.50	65.00	1.50	38	213	<2	0.4	16			36							aa	
AT03170	65.00	67.50	2.50	93	351	3	0.5	24			58							aa	
AT03171	67.50	68.00	0.50	208	876	<2	0.2	1			59							aa	
AT03172	68.00	69.50	1.50	141	704	<2	0.3	7			77							3, t	
AT03173	69.50	71.00	1.50	120	279	<2	0.1	1			54							3t, 5g	
AT03175	71.00	72.50	1.50	100	92	<2	0.1	1			45							3, t	1% py
AT03176	72.50	74.00	1.50	89	87	<2	0.1	1			53							aa	
AT03177	99.60	101.00	1.40	80	124	44	0.2	1			35							3, t	cut off
AT03178	101.00	102.50	1.50	139	300	31	0.2	1			61							8	cut off
AT03179	102.50	104.00	1.50	92	111	<2	0.1	1			60							3t, qv, 5	2% py
AT03180	168.96	169.89	0.93	111	94	<2	0.1	1			75							3, t, qv	cut off
AT03181	169.89	170.70	0.81	119	112	<2	0.1	1			74							2, p	
AT03182	170.70	171.61	0.91	45	80	<2	0.1	1			236							2, p	1% py
																		8	cut off

HOLE NUMBER: LIT66-01

ASSAYS SHEET

PAGE: 7

HOLE NUMBER : LIT66-01

GEOCHEMICAL ASSAY

DATE: 19/04/1996

Sample	From (M)	To (M)	Leng. (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 NAME	CHEM ID	ALUM
AT02372	47.00	50.00	3.00	43.76	10.54	10.44	6.53	0.93	0.42	10.87	0.54	0.08	0.18	0.09	16.44	100.82	14	28		45	85	150		3,t,Cb	2hu!	89
AT02373	57.00	59.70	2.70	64.37	14.34	3.91	1.56	2.68	0.82	3.49	1.75	0.18	0.11	0.09	7.00	100.30	26	98		80	275	65		3,t?	2(h)w	194
AT02374	74.00	77.00	3.00	60.97	14.50	4.95	1.18	2.67	0.98	4.74	1.74	0.18	0.10	0.06	8.30	100.37	34	70		95	40	50		3,t	2hw!	169
AT02375	89.00	92.00	3.00	56.25	13.87	6.82	2.13	2.54	0.74	6.02	1.69	0.16	0.14	0.07	10.50	100.93	32	104		80	30	55		3,t	2(h)w!	137
AT02376	98.50	100.50	2.00	50.12	13.93	7.67	4.54	4.21	0.50	7.89	0.69	0.50	0.14	0.03	10.71	100.93	18	104		20	65	35		8	8(j)y!	113
AT02377	107.00	110.00	3.00	44.41	12.46	9.41	5.86	1.63	0.56	11.50	0.82	0.12	0.22	0.05	13.65	100.69	18	32		85	75	85		2,p	2hw!	107
AT02378	133.00	135.00	2.00	49.88	14.02	8.71	5.80	2.72	0.16	12.26	0.93	0.12	0.24	0.05	6.06	100.95	24	34		65	60	65		2,p core	2hv	121
AT02379	150.00	152.00	2.00	43.11	13.47	10.34	4.61	1.05	1.10	11.11	0.87	0.10	0.23	0.05	14.17	100.21	18	32		200	105	65		2,t?	2hv!	108
AT02380	173.00	176.00	3.00	51.44	14.59	10.02	4.26	2.38	0.14	10.22	0.99	0.12	0.21	0.05	5.93	100.35	22	42		105	65	75		2,p	2hw	116

HOLE NUMBER : LIT66-01

GEOCHEMICAL ASSAY

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HOLE NUMBER : LIT66-01

GEOCHEMICAL ASSAYS

DATE: 19/04/1974

Sample	From (M)	To (M)	Leng. (M)	RH PPM	SR PPM	CO2 %	AG PPM	AU PPB	CO PPM	PB PPM	S PPM	V PPM	AS PPM	SN PPM	CD PPM	SB PPM	RI 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	
AT02372	47.00	50.00	3.00						50		100	155																		
AT02373	57.00	59.70	2.70						60		3700	275																		
AT02374	74.00	77.00	3.00						60		2800	285																		
AT02375	89.00	92.00	3.00						55		400	295																		
AT02376	98.50	100.50	2.00						25		400	115																		
AT02377	107.00	110.00	3.00						40		<100	190																		
AT02378	133.00	135.00	2.00						35		<100	220																		
AT02379	150.00	152.00	2.00						40		<100	205																		
AT02380	173.00	176.00	3.00						50		<100	225																		

HOLE NUMBER: LIT66-01

GEOCHEMICAL ASSAYS

1201902 (4 UNITS)
LOT 2
MANN Twp.

1201903 (8 UNITS)

LOT 1

1200950
(4 UNITS)

LOT 12

LITTLE Twp.

Con I
Con VI

Con I

NEWMARKET Twp.

Con 1200963
(2 Units)

McCART Twp.

1201904
(8 Units)

LIT66-01
100mS
600mE
Az 225°
Dip -45°

Lake

3812NEC

INCO

NELSON

3814NEC

INCO

200 NORTH
100 NORTH

100 SOUTH
200 SOUTH

300 SOUTH
400 SOUTH

500 SOUTH
600 SOUTH

700 SOUTH
800 SOUTH

800 EAST
600 EAST

400 EAST
200 EAST

1201905
(8 UNITS)

PROFILE SCALE: 1cm=2000%

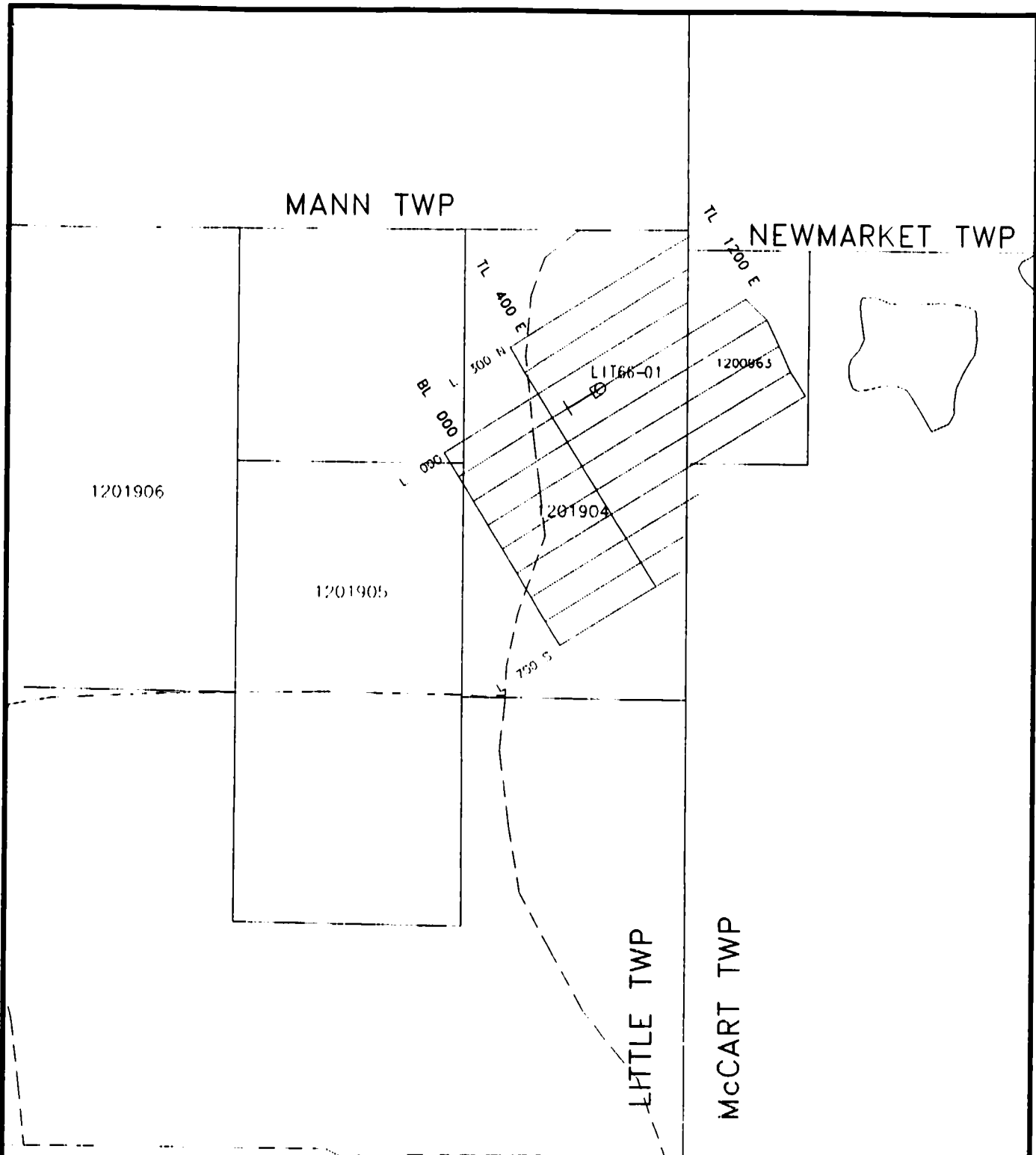
ASTRONOMIC



SHEET ORIENTED UTM NORTH
AZIMUTH 002° 11'

FALCONBRIDGE LIMITED				
Exploration Division		Timmins ONTARIO		
MANN BELT PROJECT GRID LIT96-01 LITTLE TOWNSHIP				
DIAMOND DRILL PLAN				
TRACED	EXSICS	DATE 03/96	NTS 42-A/14 & 15	PROJECT 8269
DRAWN	P Gauthier	DATE 03/96	MAP No	FILE LIT9601-
SUPERVISED	P J Nagerl	DATE 20/03/96	SCALE 1:5 000 (metres)	
REVISED	d e l	DATE 19/04/96	0 40 80 120 160	

H. HOLZ/C. HOLZ
2263NEC
11
3835NEC



FALCONBRIDGE LIMITED

Exploration Division

Timmins, ONTARIO



MANN BELT PROJECTS

LITTLE & McCART TOWNSHIPS

GRID SKETCH
COMPILATION MAP

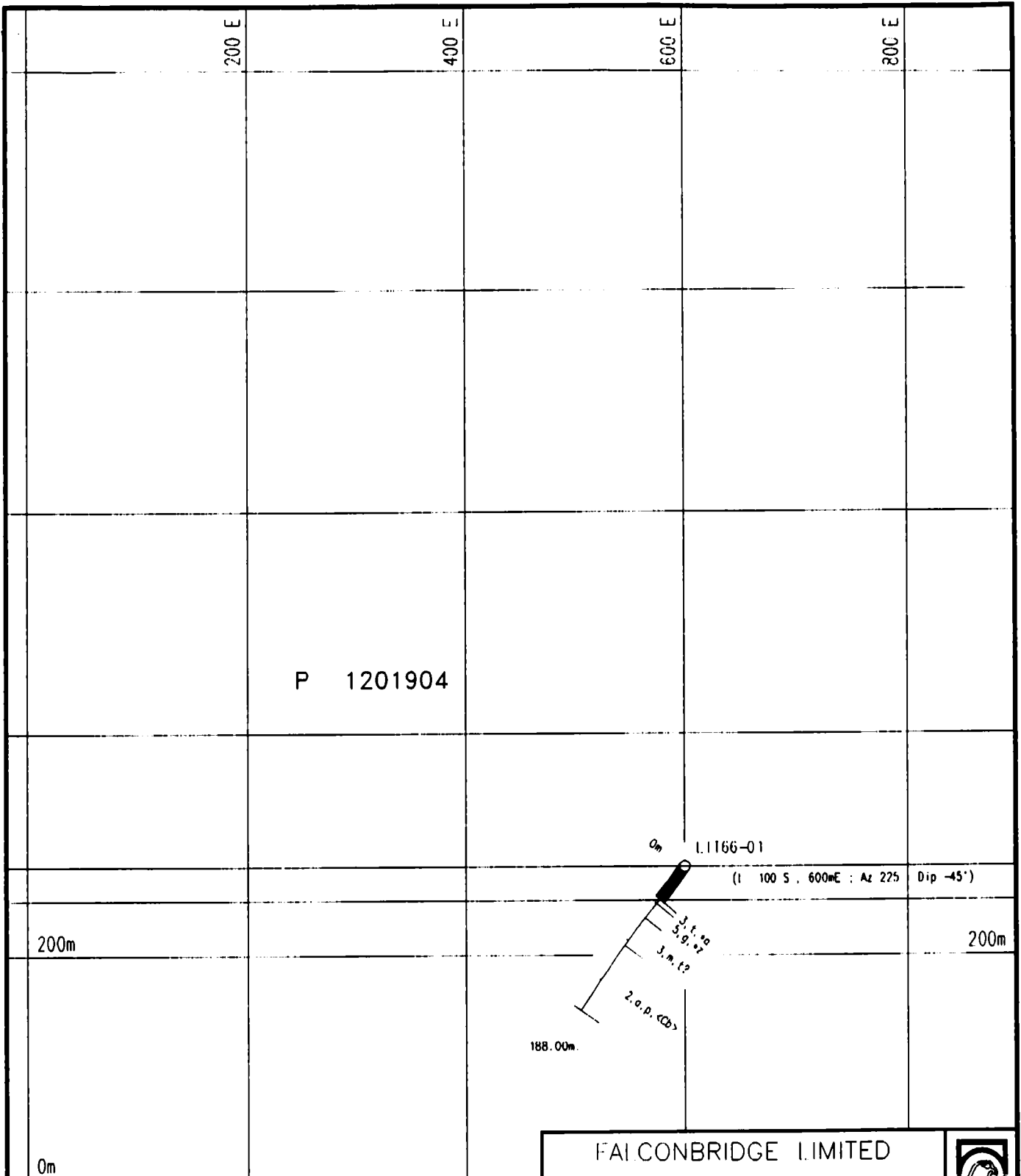
ASTRONOMIC



TRUE NORTH
MAGNETIC NORTH
ANGLE 0°

TRACED	FRANK S. P.	DATE	29/03/96	NTS	42-4/14.15	PROJECT	8269
DRAWN	S. J.	DATE	27/04/96	MAP No.		SHEET	8269 DR
SUPERVISED BY	J. Nagel	DATE	22/04/96	SCALE	1:20000 (metres)		
REVISED		DATE					






LEGEND

<p>10 DIABASE</p> <p>9 FELSIC INTRUSIVE ROCKS</p> <p>8 INTERMEDIATE INTRUSIVE ROCKS</p> <p>7 MAFIC INTRUSIVE ROCKS</p> <p>6 ULTRAMAFIC INTRUSIVE ROCKS</p> <p>5 SEDIMENTARY ROCKS</p>	<p>4 FELSIC VOLCANIC ROCKS</p> <p>3 INTERMEDIATE VOLCANIC ROCKS</p> <p>2 MAFIC VOLCANIC ROCKS</p> <p>1 ULTRAMAFIC VOLCANIC ROCKS</p>
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100m grid line separation
line 1/16"

- Regional H1EM

- AEM: 11-12 ch., cond. 9 Siemens, ch. 6 1000 ppm

FAI CONBRIDGE LIMITED		
Exploration Division	Timmins ONTARIO	
MANN BELT PROJECT		
DIAMOND DRILL SECTION 100 S		
DDH LIT66-01		
GRID LIT96-01		
Az: 225°		LITTLE Twp.
TRACED	PRODES	DATE: 24/01/96
NTS	42-A/14 & 15	PROJECT 8269
DRAWN	d e l	DATE: 24/01/96
MAP No	FILE: 8269 0P	
SUPERVISED	P. J. Nagerl	DATE: 22/04/96
SCALE	1:5 000 (metres)	
REVISED	DATE:	0 40 80 120 160

LEGEND

Geology

MAJOR ROCK DIVISIONS

- 15 TO BE ANNOUNCED
- 14 HURONIAN SUPERGROUP
- 13 METAMORPHIC (Unknown)
- 12 GNEISS
- 11 SCHIST
- 10 DIABASE
- 9 FELSIC INTRUSIVE ROCKS
- 8 INTERMEDIATE INTRUSIVE ROCKS
- 7 MAFIC INTRUSIVE ROCKS
- 6 ULTRAMAFIC INTRUSIVE 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

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

ALTERATION MODIFIERS

- | | |
|-------|----------------------|
| <Ab> | Albitization |
| <Bl> | Bleached |
| <C> | Carbonaceous |
| <Cb> | Carbonatization |
| <Ch> | Chloritization |
| <Ep> | Epidotization |
| <FCb> | Iron Carbonatization |
| <He> | Hematization |
| <K> | Potassic Alteration |
| <Rs> | Rust Stained |
| <Se> | Sericitization |
| <Si> | Silicification |
| <Sr> | Serpentinization |
| <Tc> | Talc-Carbonatized |
| <Tk> | Talc |

TEXTURAL/STRUCTURAL MODIFIERS

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

ROCK TYPE

- | | | | |
|-------|----------------------|-------|--------------------|
| <QFP> | Quartzfeldspathic | <ANT> | Anorthosite |
| <QTZ> | Quartzite | <DIO> | Diorite |
| <MAR> | Marble | <PER> | Peridotite |
| <SKA> | Skarn(Calc-Silicate) | <SER> | Serpentinite |
| <PHY> | Phyllite | <DUN> | Dunite |
| <TON> | Tonalite | <PRX> | Pyroxenite |
| <SYN> | Syenite | <LMP> | Lamprophyre |
| <GRA> | Granite | <SST> | Sandstone |
| <MON> | Monzonite | <ARK> | Arkasic sandstone |
| <GRD> | Granodiorite | <WCK> | Graywacke |
| <APL> | Aplite | <CGL> | Conglomerate |
| <FEL> | Felsite | <STL> | Siltstone |
| <QDI> | Quartz Diorite | <ARG> | Mudstone-argillite |
| <GAB> | Gabbro | <EXH> | Chert/exhalite |
| <NOR> | Norite | <QIF> | Silicate IF |

MINERALOGICAL NAMES

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

- | | | | |
|-------|---------------|-------|--------------------------|
| <OIF> | Oxide IF | <UNK> | Unknown Protolith |
| <SIF> | Sulphide IF | <UMF> | Ultramafic |
| <CIF> | Carbonate IF | <MAF> | Mafic |
| <SHA> | Shale | <AND> | Andesite |
| <LST> | Limestone | <DAC> | Dacite |
| <CHM> | Chem. Precip. | <RYD> | Rhyodacite |
| <SLA> | Slate | <RHY> | Rhyolite |
| <KIM> | Kimberlite | <SCL> | Sulphide Clasts |
| <CAR> | Carbonate | <RWV> | Reworked Volcanic Debris |
| <AMP> | Amphibolite | | |
| <MIG> | Migmatite | | |
| <PEG> | Pegmatite | | |
| <LFU> | Leucocratic | | |
| <MFL> | Melanocratic | | |



Norex Drilling Limited

Telephone (705) 235-2222
Fax (705) 235-2808

P.O. Box 88 - Porcupine, Ontario P0N 1C0

March 20, 1996

Invoice #F96320
Page 1 of 2

FALCONBRIDGE LIMITED
P.O. BOX 1140
TIMMINS, ONTARIO
P4N 7H9

EAST ONTARIO
DRILLING PERIOD - MARCH 1-15/96

HOLE #MAN-31-01, Casing 64m

15 x \$44.00	660.00
15 x \$52.00	780.00
15 x \$61.00	915.00
15 x \$70.00	1,050.00
04 x \$70.00	280.00
64 to 150 = 86 x \$44.00	3,784.00
150 to 167 = 17 x \$45.75	777.75

Waterline:

53 hrs x \$25.00	=	1,325.00	
7 Propane x \$36.00	=	252.00	
2 Tractor hrs x \$60.00	=	120.00	
Total:		1,697.00 x 50% =	848.50

Pull All Casing Out: 3 hrs x \$75.00 225.00

HOLE #MAN-43-03, Casing 3m

150 x \$44.00	6,600.00
150 to 158 = 8 x \$45.75	366.00

Waterline 4,000'

22 man hrs x \$25.00	=	550.00	
06 Propane x \$36.00	=	216.00	
Total:		766.00 x 50% =	383.00

3m BW Casing x \$40.00	120.00
1 BW Shoe x \$154.00	154.00

HOLE #MAN-43-02, Casing 8.2m

113 x \$44.00	4,972.00
8.2m BW Casing x \$40.00	328.00
1 BW Shoe x \$154.00	154.00

=== CONTINUED ON PAGE 2 ===



Norex Drilling Limited

Telephone (705) 235-2222
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P.O. Box 88 - Porcupine, Ontario P0N 1C0

March 20, 1996

Invoice #F96320

Page 2 of 2

FALCONBRIDGE LIMITED
P.O. BOX 1140
TIMMINS, ONTARIO
P4N 7H9

EAST ONTARIO

DRILLING PERIOD - MARCH 1-15/96

HOLE #LIT-66-01, Casing 44m

15 x \$44.00	660.00
15 x \$52.00	780.00
14 x \$61.00	854.00
44 to 150 = 106 x \$44.00	4,664.00
150 to 188 = 38 x \$45.75	1,738.50
Pull Casing Out: 1 hr x \$75.00	75.00
88 BQ Core Trays x \$5.25	462.00

HOLE #MAN-64-01

Re: Casing Correction 467.00

-----	-----
Sub total:	32,097.75
GST #R103904504	2,246.84

INVOICE TOTAL: \$ 34,344.59

THANK YOU

MAN31-03 103m 28 94.5

MAN43-03 158m 28 117.00

MAN43-02 113m 19 99.75

LIT 55-01 144m 33 121.75

307.25

C. Petch
Mar 29/96

PN# 8269

- ROAD BUILDERS
- ALL TYPES OF AGGREGATES
- EQUIPMENT RENTALS
- CONTRACT CRUSHING
- FLOAT SERVICE

MLJ LABELLE CO. LTD.



Contractors

FAX (705) 272-
Telephone (705) 2
17-1st St. - P.O. E
COCHRANE, C
P0L 1C0

INVOICE
96-116

SOLD TO Falconbridge Ltd.
P.O. Box 1140
571 Moneta Ave.
Timmins, ON
P4N 7H9

FAXED
Feb. 15/96

Feb. 15 19 96

Please Pay from INVOICE - Statement sent only on request

Terms: Net 30 days - 1 1/2% Interest Per Month Charged On Past Due Accounts

CUSTOMER'S ORDER No. _____

DATE		RATE	DEBIT	CREDIT
1996	Rental of equipment for snow removal at Dunns Lake Area			
Feb. 5	1½ Hours - Truck & Float	@ 85.00	127.50	
Feb. 5	10½ Hours - Cat 140 Grader	@ 85.00	892.50	
Feb. 2	6 Hours - Cat D7G Dozer	@ 90.00	540.00	
	G.S.T.		1,560.00	
			109.20	
			<u>\$1,669.20</u>	

GST Reg. # R103721759

PITS & QUARRIES THROUGHOUT THE COCHRANE DISTRICT

OASIS PARK MOTEL

Hwy. 11,
Tunis, Ont.
P.O. Box 640,
Iroquois Falls, Ont.
POK 1G0

Feb. 16, 1996.

Falconbridge Exploration Ltd.,
P.O. Box 1140,
Timmins, Ont. P4N 7H9

re - Rental - 2 Motel Rooms,
Month of February/96,
& Lobby Facilities

2 @ \$800.00.....\$1600.00

Thank You!



OASIS PARK MOTEL
Phil Tessier, Owner

C. Petel
PN# 8269
Feb. 20, 1996



Ministry of
Northern Development
and Mines

Ontario

Report of Work Conducted After Recording Claim

Mining Act

Transaction Number

W9660.00311

DDH LIT 66-01

Personal information collected on this form is obtained under the authority of the Mining Act. This information will be used for correspondence. Questions about this collection should be directed to the Provincial Manager, Mining Lands, 1 Sudbury, Ontario, P3E 6A5, telephone (705) 670-7264.



900

- Instructions:**
- Please type or print and submit in duplicate.
 - Refer to the Mining Act and Regulations for 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 571 Moneta Ave. P.O. Box 1140 Timmins, Ont. P4N 7H9		Telephone No. (705) 267-1188
Mining Division Porcupine	Township/Area LITTLE	M or G Plan No.
Dates Work Performed	From: March 13, 1996	To: March 15, 1996

Work Performed (Check One Work Group Only)

Work Group	Type
<input type="checkbox"/> Geotechnical Survey	
<input checked="" type="checkbox"/> Physical Work, Including Drilling	Diamond drill hole(s) LIT 66-01 (188m)
<input type="checkbox"/> Rehabilitation	
<input type="checkbox"/> Other Authorized Work	
<input type="checkbox"/> Assays	
<input type="checkbox"/> Assignment from Reserve	

RECORDED

APR 25 1996

Receipt _____

Total Assessment Work Claimed on the Attached Statement of Costs \$ 11,64

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
Norex Drilling Ltd.	Hwy 101 East Porcupine Ont. (705) 235-2222

(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 April 12/96	Recorded Holder or Agent (Signature) C. Petz
--	----------------------------	--

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 571 Moneta Ave. P.O. Box 1140 Timmins Ont. P4N 7H9 C. KRISTINE PETZ		
Telephone No. (705) 267-1188	Date April 12/96	Certified By (Signature) C. Petz

For Office Use Only

11,64	Total Value Cr. Recorded	Date Recorded	Mining Recorder	
	Deemed Approval Date	Date Approved		
	Date Notice for Amendments Sent			
		July 29/96	JULY 24, 1996	



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

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

1. Direct Costs/Coûts directs

Type	Description	Amount Montant	Totals Total global
Wages Salaires	Labour Main-d'oeuvre	600	
	Field Supervision Supervision sur le terrain	300	900
Contractor's and Consultant's Fees Droits de l'entrepreneur et de l'expert-conseil	Type Drilling		Invoice # F96320
	LIT66-01	9514	9514
Supplies Used Fournitures utilisées	Type		
Equipment Rental Location de matériel	Type Truck	50	
	Snowmobile	50	
Total Direct Costs Total des coûts directs			10514

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 Labelle	500	
			500
Food and Lodging Nourriture et hébergement	Oasis Motel	100	
	Oasis Rest.	50	150
Mobilization and Demobilization Mobilisation et démoblisation			
Sub Total of Indirect Costs Total partiel des coûts indirects			650
Amount Allowable (not greater than 20% of Direct Costs) Montant admissible (n'excédant pas 20 % des coûts directs)			10514
Total Value of Assessment Credit (Total of Direct and Allowable indirect costs) Valeur totale du crédit d'évaluation (Total des coûts directs et indirects admissibles)			11164

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

- Work filed within two years of completion is claimed at 100% of the above Total Value of Assessment Credit.
- 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

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

Valeur totale du crédit d'évaluation	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 C. Petz I am authorized (Recorded Holder, Agent, Position in Company)

to make this certification

Attestation de l'état des coûts

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

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

à faire cette attestation.

Signature C. Petz Date April 12/96

REFERENCES

AREAS WITHDRAWN FROM DISPOSITION

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

Description Order No. Date Disposition File

SAND AND GRAVEL

- ① GRAVEL FILE NO. I17920
- ② GRAVEL FILE NO. I17919
- ③ GRAVEL FILE NO. I17341

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.

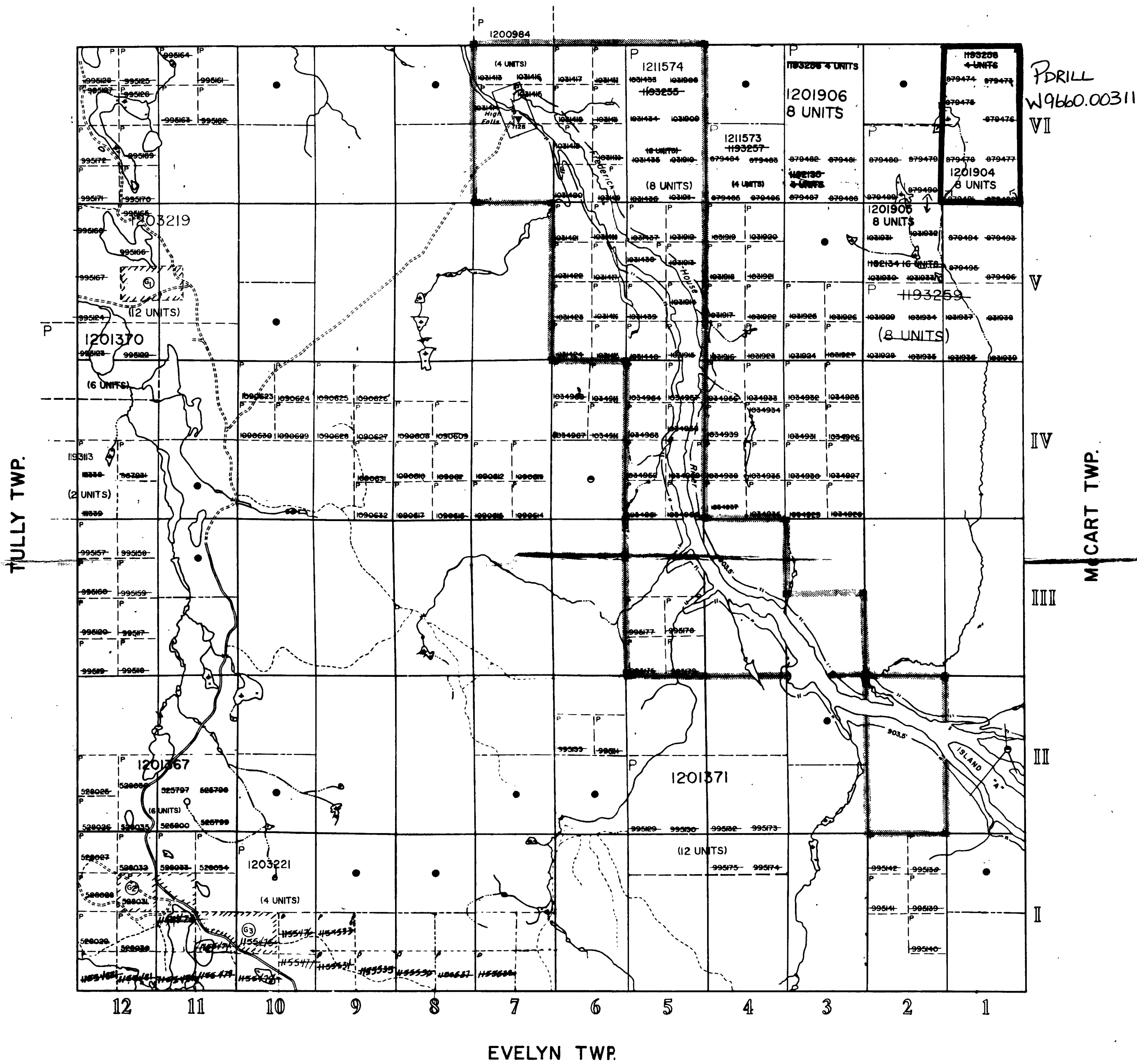
NOTES

- ⊗ THIS TWP. IS SUBJECT TO FOREST ACTIVITIES IN 1982/83 FURTHER INFORMATION AVAILABLE ON FILE.
- ⊙ THIS TWP. IS SUBJECT TO FOREST ACTIVITIES IN 1994/96 FURTHER INFORMATION AVAILABLE ON FILE.

AREA RESERVED TO ONTARIO HYDRO FOR WATER POWER PURPOSES SHOWN THUS

FLOODING RIGHTS TO CONTOUR 903.5' ON LANDS BORDERING FREDERICK HOUSE RIVER RESERVED TO ONTARIO HYDRO

MANN TWP.



Handwritten: PDRILL W9660.00311 VI

Vertical label: MCCART TWP.

LEGEND

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

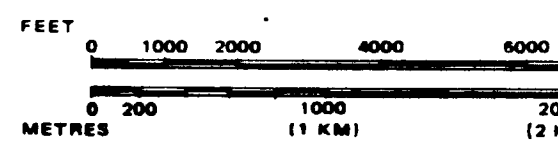
DISPOSITION OF CROWN LANDS

TYPE OF DOCUMENT

- 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

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

SCALE: 1 INCH = 40 CHAINS



ISSUE

JUL 26 1995

TOWNSHIP

LITTLE PORCUPINE MINING DISTRICT

M.N.R. ADMINISTRATIVE DISTRICT

TIMMINS

MINING DIVISION

PORCUPINE

LAND TITLES / REGISTRY DIVISION

COCHRANE



Date MARCH, 1985

Number

PLACED ON ACTIVE FILE, CHECKED 20/03/85

G-32



42A155W0055 W9660-00311 LITTLE