



42A15SW0054 W9560-00492 MANN

FALCONBRIDGE LIMI
DRILL HOLE RECO.

010

DATE: 11/13/1995

AL UNITS: METRIC UNITS: X

HOLE NUMBER: MAN45-01

PROJECT NAME: 8269
PROJECT NUMBER: 8269
CLAIM NUMBER: P1200908
LOCATION: MANN TOWNSHIP

PLOTTING COORDS GRID: MANN95-04
NORTH: 375.00S
EAST: 100.00E
ELEV: 280.00

ALTERNATE COORDS GRID: UTM
NORTH: 0+ 0
EAST: 0+ 0
ELEV: 280.00

COLLAR DIP: -45° 0' 0"
LENGTH OF THE HOLE: 245.00M
START DEPTH: 0.00M
FINAL DEPTH: 245.00M

COLLAR ASTRONOMIC AZIMUTH: 180° 0' 0"

GRID ASTRONOMIC AZIMUTH: 180° 0' 0"

DATE STARTED: 10/16/1995
DATE COMPLETED: 10/19/1995
DATE LOGGED: 10/19/1995

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

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

CONTRACTOR: DOMINIK DRILLING
CASING: MW
CORE STORAGE: MINESITE
UTM COORD.:

COMMENTS : Strong HLEM conductor on either side of mag high. Intersected argillite with ultramafic dyke.
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
33.00	° ' " -46°30' 0"		A	OK		-	-	-	-	-	-
90.00	° ' " -46° 0' 0"		A	OK		-	-	-	-	-	-
150.00	° ' " -46° 0' 0"		A	OK		-	-	-	-	-	-
210.00	° ' " -46° 0' 0"		A	OK		-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-
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HOLE NUMBER: MAN45-01

DRILL HOLE RECORD

LOGGED BY: C.A. PETCH

PAGE: 1

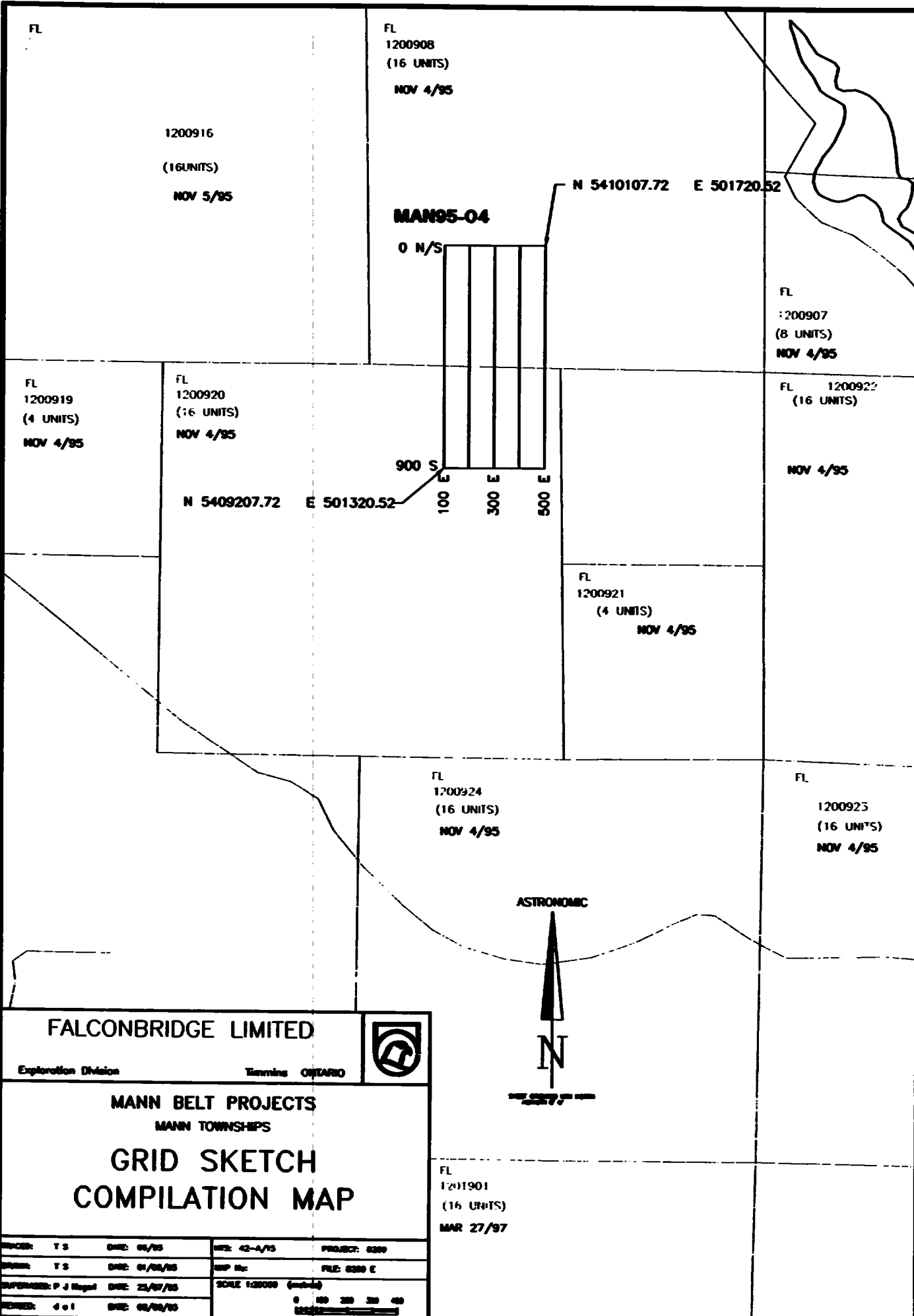
FROM TO	ROCK TYPE	TEXTURE AND STRUCTURE	ANGLE TO CA	ALTERATION	MINERALIZATION	REMARKS
0.00 TO 30.00	<{ob}>					- casing left in hole, both BW and NW.
30.00 TO 78.28	Mafic Volcanic/ Intrusive <2/7>	<ul style="list-style-type: none"> - fine to medium grained. - medium to dark green. - moderately hard, locally weakly magnetic. - textures typically vary from fine grained, medium green to coarse grained, darker green to intervals that have a chloritic, mottled texture. - cut by coarse grained granite (at 33.0-34.81m and 47.12-54.80m) and up to 5%, 1-10 cm wide veins of equally coarse grained granodiorite with little to no chill margins. - 60.55-61.45m - chlorite + carbonate + pyrite + epidote vein at low angle to core axis. The vein has a fine grained, chloritic wall gradational with the medium grained mafic, contains up to 4% pyrite, and is weakly conductive. A similar vein containing 1%, pale grey graphite is seen at 63.4-63.7m. Up to 3%, 2-5 mm veinlets of the same occur from 63.7-78.28m. 		<ul style="list-style-type: none"> - local intervals are chlorite altered(?) as seen by patchy, 1 cm chloritic clots. - irregular silica patches may be related to intrusion or an alteration product. - minor carbonate on fracture surfaces. - minor hematite staining of feldspars in granodiorite intervals. - 52.6m - chlorite + carbonate + epidote vein at 10°/ca over 40cm. 	<ul style="list-style-type: none"> - up to 2%, disseminated and fracture-controlled pyrite. - rare 5mm, pyrite cubes are fracture-controlled. 	
78.28 TO 78.80	Silicified Sediment? <5,r,<Si>>	<ul style="list-style-type: none"> - fine grained - medium grey and purplish-brown. - strongly altered with cross-cutting, hairline, silica veinlets. - three 2-10mm bands (90°/ca) of massive magnetite suggests the interval may be banded silica-oxide iron formation. - downhole contact is at 85°/ca and marked by a 1cm, massive magnetite band. 		<ul style="list-style-type: none"> - cross-cutting thin, bleached siliceous veinlets. - purplish-brown colour may be due to biotite alteration. 	<ul style="list-style-type: none"> - less than 1% disseminated, 1mm pyrite cubes are weakly banded at 90°/ca. 	
78.80 TO 80.80	Feldspar Porphyritic Mafic <2,b,D>	<ul style="list-style-type: none"> - medium grained, porphyritic. - medium green with white. - 10%, 1-3mm, subhedral to anhedral, white to pale grey feldspars (possibly two types as white ones tend to be more rectangular and greyer ones more diffuse) in a medium grained matrix of grey quartz and green chlorite. - downhole contact is gradational and is marked by the onset of the main mineralized zone. 		<ul style="list-style-type: none"> - bleaching and silica flooding in a broad zone at 35°/ca. 	<ul style="list-style-type: none"> - trace disseminated pyrite associated with alteration. - onset of pyrrhotite mineralization near downhole contact. 	

FROM TO	ROCK TYPE	TEXTURE AND STRUCTURE	ANGLE TO CA	ALTERATION	MINERALIZATION	REMARKS
80.80 TO 84.60	Altered Mafic Tuff(?) «2,t,<Si>,D»	<ul style="list-style-type: none"> - fine grained, weakly porphyritic. - light grey with bronze. - alteration has washed out textures, difficult to determine a precursor rock. - patches of weakly chloritic rock may be matrix to 2-10cm, subhedral feldspar crystals. - thin 10cm argillaceous interval at 81.15m further supports tuffaceous or sedimentary origin. 		- silicified.	<ul style="list-style-type: none"> - 8-10% fracture-controlled pyrrhotite with lesser pyrite and up to 0.1% chalcopyrite. - 0.01% medium brown sphalerite is disseminated in poorly defined bands at 85°/ca. The sphalerite is locally cut by the fracture-controlled mineralization. 	
84.60 TO 93.82	Argillite/Greywacke «5,g,F/2,*a»	<ul style="list-style-type: none"> - fine grained, moderately hard. - well foliated at 85°/ca, locally folded. - dark brown with light grey and bronze. - poorly bedded to locally finely laminated. - locally weakly graphitic. - moderately well sorted sediment contains light grey ash-sized clasts (40-50%) and up to 2% subhedral, 1-2mm, feldspar crystals in a fine grained, dark brown matrix. - 85.30m - sharp bedding contact has coarser grain size downhole of contact becoming finer grained downhole over 20cm. Possible downhole tops. - 87.25-87.98m - fine grained, weakly granular, medium brown-grey interval is possibly a thin mafic flow. Also seen at 88.30-88.60m. Contacts are sharp and at high angles to core axis. - 89.90-90.20m - feldspar porphyritic biotite-bearing granodiorite. - downhole contact is gradational into siliceous sediment. 		- locally fine, white fractures are commonly at low angles to core axis and contain minor amounts of pyrrhotite (remobilized?).	<ul style="list-style-type: none"> - 1-2%, finely disseminated pyrrhotite, weakly banded subparallel to bedding with lesser pyrite and rare chalcopyrite. - overall, mineralization decreases in intensity downhole. 	
93.82 TO 98.93	Siliceous Sediment «5,?»	<ul style="list-style-type: none"> - fine grained. - purplish brown with white and dark green. - similar to 78.28-78.80m except it does not contain the magnetite bands. - 5mm, rounded patches of dark green rock (3%) are surrounded by 2mm silica halos which grade into the main brown coloured rock. - the interval may be intensely altered mafic rock. - downhole contact is diffuse and irregular with a fine grained mafic/ultramafic. 		<ul style="list-style-type: none"> - silicification. - biotite alteration? 	- trace fracture-controlled pyrite.	

FROM TO	ROCK TYPE	TEXTURE AND STRUCTURE	ANGLE TO CA	ALTERATION	MINERALIZATION	REMARKS
98.93 TO 155.10	Ultramafic Intrusive *1,a*	<ul style="list-style-type: none"> - fine grained. - dark blue grey. - moderately magnetic. - locally weakly foliated at 55°/ca. - cut by a coarse grained, hornblende ± biotite ± chlorite granodiorite in 20cm wide intervals that is also weakly foliated (overall comprises 15% of interval). Contacts are generally at a high angle to the core axis. - uphole and downhole contacts are gradational into 2-3 metres of a more light green-grey, non-magnetic mafic rock. - 117.22-121.52m - largest intersection of granodiorite. Contacts are fault bounded (1-3cm of fault gouge). - 143.15-143.59m - high strain zone within the ultramafic contains minor amounts of carbonate. - last 8m of the interval contains 80% broken core. - downhole contact is marked by fault zone (last 1m) with 40cm of fault gouge. 		<ul style="list-style-type: none"> - cut by 1% serpentine ± magnetite veins that are 2-10mm wide and at 0-20°/ca. - up to 5%, fine, dark black magnetite-rich veinlets are randomly orientated. 		<ul style="list-style-type: none"> - trace disseminated pyrrhotite in the granodiorite.
155.10 TO 161.81	Altered Mafic Volcanic *2,a,D,<Si*	<ul style="list-style-type: none"> - fine grained, weakly feldspar phyrlic. - light grey, moderately hard, massive. - weakly mottled light and dark grey, pale green and pale brown texture produced by alteration. - 155.40-155.80m - fault breccia with 2-10cm, angular fragments of silicified mafic in a chloritic matrix with trace pyrite. - cut by 20cm interval of granodiorite. - downhole contact is sharp at 65°/ca. 		<ul style="list-style-type: none"> - strong silicification is patchy and fracture-controlled. - weakly chloritic patches. 		<ul style="list-style-type: none"> - 0.1% pyrite + pyrrhotite ± chalcopyrite is fracture-controlled.
161.81 TO 166.15	Mafic Volcanic *2,a/1*	<ul style="list-style-type: none"> - fine grained, medium to dark green, - weakly granular texture. - non-magnetic. - very soft, massive. - may be approaching ultramafic in composition. - 165.82-166.18m - light green-grey with a diffuse uphole contact, hard, not magnetic. - unknown whether or not this is an alteration of the mafic interval or a distinct lithology. - downhole contact is bounded by a granodiorite vein. 		<ul style="list-style-type: none"> - possibly weakly silicified. - cut by trace carbonate + quartz + pyrite veinlets. 		

FROM TO	ROCK TYPE	TEXTURE AND STRUCTURE	ANGLE TO CA	ALTERATION	MINERALIZATION	REMARKS
166.15 TO 167.20	Silicified Sediment «5,<Si>»	<ul style="list-style-type: none"> - fine grained, weakly feldspar phyrlic. - pale green-brown grey. - siliceous, hard. - similar to 80.80-84.60m. - cut by 20% granodiorite dykes. - downhole contact is approximate at first appearance of weakly laminated and biotite altered sediments. 		<ul style="list-style-type: none"> - cut by chlorite + carbonate + pyrite veinlets. - interval has overall bleached appearance of a silicified rock. 	<ul style="list-style-type: none"> - trace disseminated fracture-controlled pyrrhotite and pyrite. 	
167.20 TO 195.81	Argillite «5,g,<Si>»	<ul style="list-style-type: none"> - fine grained, moderately hard. - dark green brown to dark brown. - interval varies between silicified argillite to graphitic argillite to potassically(?) altered argillite. - the graphitic argillite is locally strongly foliated at 50°/ca sub-parallel to the laminations. - interval is cut by 5%, coarse grained granodiorite in 10-60cm wide dykes with diffuse contacts. - 168-178m - strongly fractured and broken core. - 167.20-168.50m - silicified argillite/mafic tuff(?) is weakly laminated at 50°/ca - 168.50-169.30m - graphitic argillite in broken core. - 169.30-170.62m - pale green, silicified sediment is locally strongly fractured. Downhole contact with argillite is sharp and appears to be conformable. - 171.76-172.05m - fault at 10°/ca (half the core is fault gouge). - 179m - 10cm quartz vein at 40°/ca. - 193.30-198.81m - granodiorite with minor 2-5cm xenoliths(?) of silicified argillite with resorbed rims. - downhole contact is diffuse at 50°/ca. 		<ul style="list-style-type: none"> - cut by irregular, angular fractures and chlorite + carbonate + quartz + pyrite veinlets. - 186-196.30m - distinctive pale to dark brown alteration is fracture-controlled. Fractures are randomly oriented, 1mm or less in width and have alteration halos up to 2cm wide. The alteration halo is brown grey and grades outward into pale to medium purplish-brown to creamy brown. The halos are in sharp contact with unaltered argillite which comprises approximately 10% of the interval. 	<ul style="list-style-type: none"> - up to 1%, disseminated, 0.5mm, cubic pyrite and rare pyrrhotite. - 176-184m - contains up to 3% finely disseminated pyrite. 	
195.81 TO 245.00	Ultramafic «1,b»	<ul style="list-style-type: none"> - fine to medium grained, granular textured. - soft, pale green to weakly medium blue green. - non-magnetic to very weakly magnetic. - the interval is texturally extremely heterogeneous. The two most common textures are (1) dark blue grey, fine grained, massive, moderately magnetic ultramafic and (2) light beige to green grey, 1-2mm curdy textured, slightly less magnetic rock (possible 		<ul style="list-style-type: none"> - weak serpentine alteration. 	<ul style="list-style-type: none"> - 194.30-194.80m - up to 5% pyrite is fracture-controlled in strongly deformed margin of a granodiorite dyke. Typically associated with chlorite. 	

FROM TO	ROCK TYPE	TEXTURE AND STRUCTURE	ANGLE TO CA	ALTERATION	MINERALIZATION	REMARKS
245.00 TO 245.00	«EOH» End-of-Hole	<p>alteration of the ultramafic?). Contacts between the two are hazy and weakly gradational.</p> <ul style="list-style-type: none"> - coarse grained granodiorite dyklets comprise 10% of the interval. - 1% serpentine veins cut core at random orientations - 195.81-200m - 3%, submillimetre, black mineral (looks like poppyseed) disseminated through pale green grey rock (pyroxenite?), non-magnetic. - 216.90-217.65m - feldspar-phyric, medium green mafic intrusion with sharp contacts but no chill margin. 219.15-219.76 «FAULT ZONE» - 10% quartz veining at the uphole contact followed by 50 cm of chloritic fault gouge. Moderately conductive. - 224.16-225.05m - medium brownish grey-green, moderately sorted sediment is well banded with 1mm wide, dark grey bands and 5-15 mm, grey-green bands. Grains consist of 4%, 1 mm, chlorite- rimmed grains and 2% feldspar crystals in an ashy matrix. The interval is cut by a granodiorite dikelet. 				



FL

FL
1200908
(16 UNITS)
NOV 4/95

1200916
(16 UNITS)
NOV 5/95

FL
1200907
(8 UNITS)
NOV 4/95

MAN95-04

0 N/S

N 5410107.72 E 501720.52

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1200919
(4 UNITS)
NOV 4/95

FL
1200920
(16 UNITS)
NOV 4/95

FL 1200922
(16 UNITS)
NOV 4/95

900 S

N 5409207.72 E 501320.52

100 E
300 E
500 E

FL
1200921
(4 UNITS)
NOV 4/95

FL
1200924
(16 UNITS)
NOV 4/95

FL
1200923
(16 UNITS)
NOV 4/95

ASTRONOMIC



FALCONBRIDGE LIMITED

Exploration Division

Terrace ONTARIO

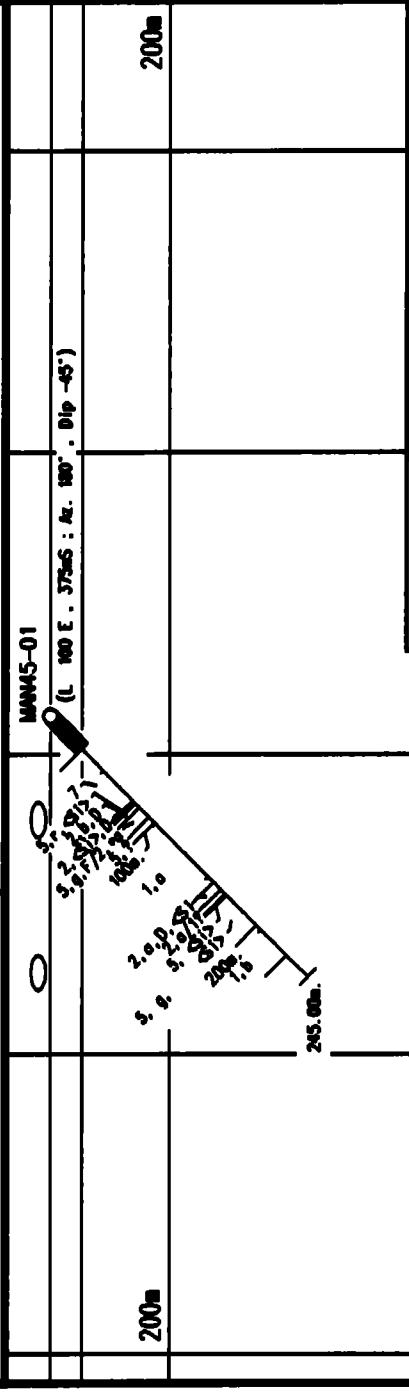
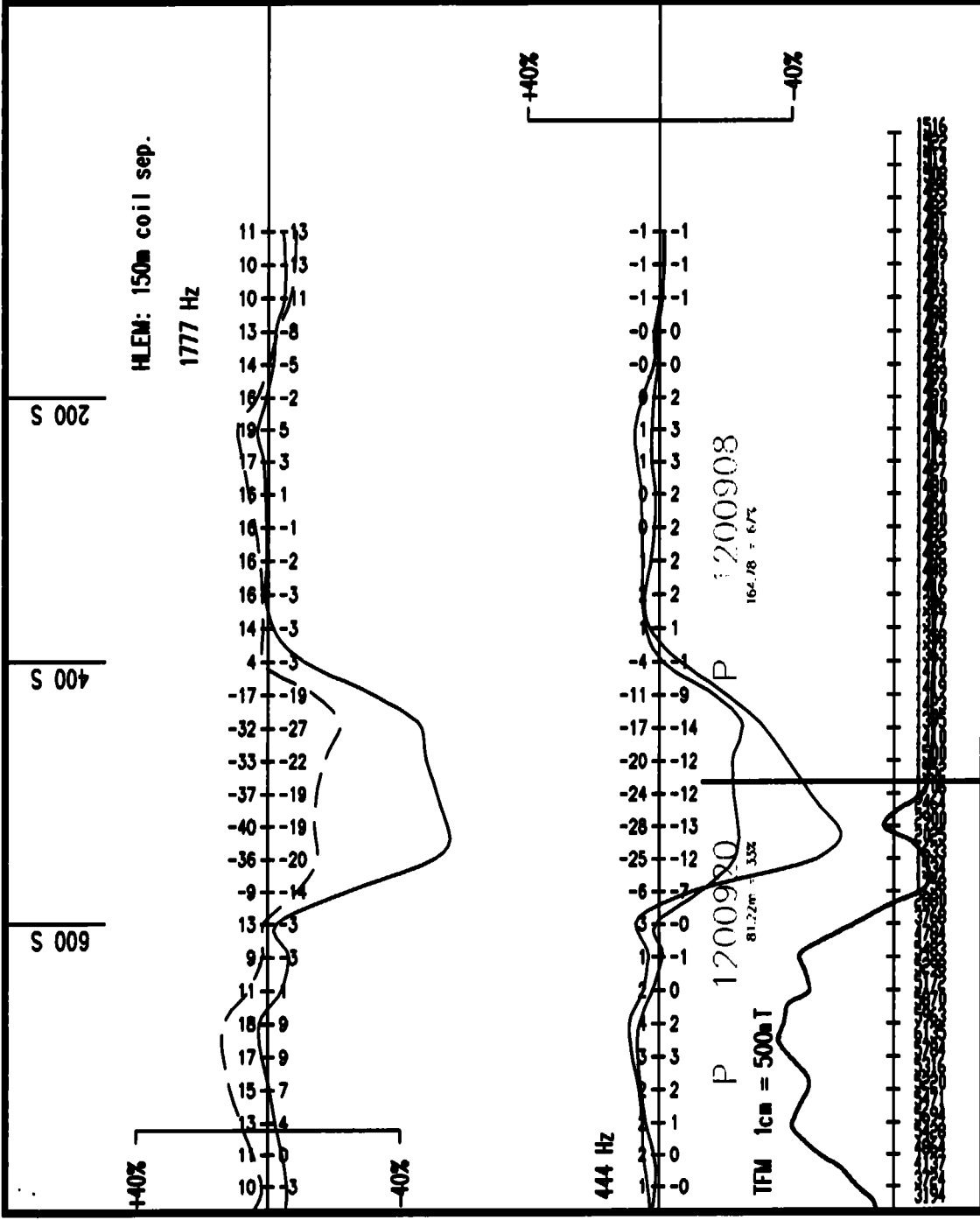


MANN BELT PROJECTS
MANN TOWNSHIPS

GRID SKETCH
COMPILATION MAP

FL
1201901
(16 UNITS)
MAR 27/97

DRIVER: T S	DATE: 06/95	REF: 43-4/95	PROJECT: 6300
DRIVER: T S	DATE: 01/02/95	REF No:	FILE: 6300 E
SUPERVISOR: P J Magad	DATE: 23/07/95	SCALE 1:20000 (not to scale)	
REVISION: 4 of 1	DATE: 06/06/95	0 100 200 300 400	



FALCONBRIDGE LIMITED
Exploration Division Timmins ONTARIO

MANN BELT PROJECT

DIAMOND DRILL SECTION 100 E
DDH MAN45-01
GRID MAN95-04

AZ 180° MANN Temp.

REVISED:	REVISED:	DATE:	DATE:	BY:	BY:	PROJECT:	PROJECT:
000000	000000	25/02/95	25/02/95	001	001	MAN45-01	MAN45-01
APPROVED BY J. Huggill				SCALE 1:5000 (vertical)			
DRAWN BY: 001				DATE: 25/02/95			

- 100m grid line separation
- 1 line TFM
- Regional HLEM
- AEM: 9-10 ch ; cond. 5-8 siemens ; ch 3 305 ppm

1200908
(16 UNITS)

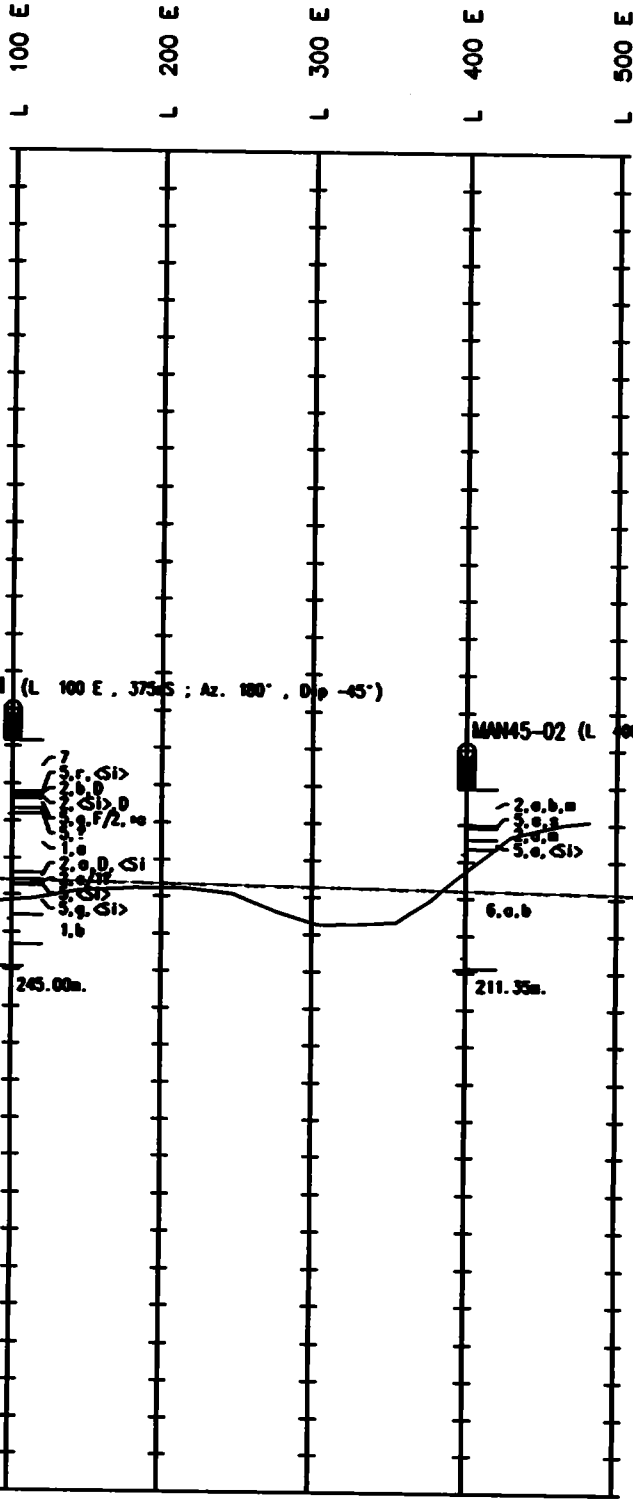
LOT 5

LOT 4

LOT 3

1200916
(16 UNITS)

BL 000



CON IV

CON III

1200920
(16 UNITS)

TL 900 S

SCHUMACHER

523NEC

1200921
(4 UNITS)

ASTRONOMIC



SHEET ORIENTED AND SPREAD
ACROSS 600 11"

FALCONBRIDGE LIMITED		Exploration Division		Timmins ONTARIO	
MANN BELT PROJECT GRID MANN45-04 MANN TOWNSHIP DIAMOND DRILL PLAN					
DESIGNED: H W G	DATE: 08/95	REV: 42-A/14 & 15	PROJECT: 8280		
DRAWN: H W G	DATE: 08/95	SHP No:	FILE: MANN004-		
SUPERVISOR: P J Hagedorn	DATE: 11/10/95	SCALE 1:5 000 (metres)			
REVISED: 4-1	DATE: 11/10/95	0 20 40 60 80 100			

FALCONBRIDGE LIMITED
PO BOX 1140, 571 MONETA AVENUE
TIMMINS ONTARIO
P4N 2H9

DATE: 31 OCT 1985

MANE Twp. 09

DRILL N° #11

ole No. MAN 45-01

from 0	to 15 =	15 METRES CASING X	41.80	=	627.00
15	to 30 =	15 " " X	46.80	=	702.00
30	to 150 =	120 " CORING X	41.80	=	5016.00
150	to 247 =	97 " " X	43.55	=	4224.35
	to				

ole No. MAN 45-02

from 0	to 15 =	15 METRES CASING X	41.80	=	627.00
15	to 30 =	15 " " X	46.80	=	702.00
30	to 36 =	6 " " X	58.80	=	340.80
36	to 150 =	114 " CORING X	41.80	=	4765.20
150	to 210 =	60 " " X	43.55	=	2613.00

10569.35

ole No.

from	to				
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ole No.

from	to				
	to				
	to				
	to				
	to				

ole No.

from	to	Man 45-01	10569.35 + 739.83 =	11309.20	
	to	MAN 45-02	9048.00 + 633.36 =	9681.36	
	to				20990.56
	to				
	to				

ole No.

from	to				
	to				
	to				
	to				
	to				

BT
74 081
Total

19,617.35
1,378.21
20,995.56

ANALYSIS

No. MAN 45-01 : 30-90-150-210

No. MAN 45-02 : 36-96-160-210

- No. _____
- No. _____
- No. _____
- No. _____
- No. _____
- No. _____
- No. _____
- No. _____
- No. _____
- No. _____

8 Acid tests x M/C

Tropy tests x _____

BT _____

7% GST _____

Total.. M/C

Replacing sperry's one for every 60 METERS

OTHER COSTS:

6/10/85 : 22 MAN HRS MOVE OVER 10 HOURS.

4 HRS FLOAT

MAN 45-01

22 man hrs x 23.50 = 517.00

4 drill hrs x _____ = _____

4 Float x 70.00 = 280.00

BT 787.00

7% GST 55.79

Total 842.79

MAN 45-01

MATERIAL LEFT IN HOLE:

No. <u>MAN45-01</u>	10 x 3 m. = 30 METRES NWC left in the hole x 37.78	1133.40 ✓
No. _____	10 x 3 = 30 " BWC " " " x 31.92	957.60 ✓
No. _____	1 NW HQ Crown-bit shoe " " "	660.00 ✓
No. _____	1 BW Econo. shoe " " "	155.00 ✓
No. _____		2906 ✓
No. <u>MAN45-02</u>	11 x 3 = 33 METRES NWC left in the hole x 37.78	1246.74 ✓
No. _____	12 x 3 = 36 " BWC " " " x 31.92	1149.12 ✓
No. _____	1 NW HQ Crown-shoe " " "	660.00 ✓
No. _____	1 BW NO " " " " " "	440.00 ✓
No. _____		3445.86 ✓
No. _____		
No. _____		
No. _____		
No. _____		
No. _____		
No. _____		
No. _____		
No. _____		

MAN45-01 2906	15% SC	7% GST	TOTAL	ST	6401.86
MAN45-02 3445				15% Service charge	960.28
MAN45-01 2906	435.9	233.13	3575.83	7% GST	515.35
MAN45-02 3445.86	524.33	281.39	4301.25	8% PST	EXEMPT
			7877.11	Total	7877.49

MISCELLANEOUS:

DEMOLITION	860.00
Credit 97 trays of 80 core boxes	97 x 5.75 = 557.75

Core Boxes

MAN45-01 = 217 m core = 36 boxes = 208.00 + 14.56 = 222.56	BT	302.25
MAN45-02 = 174 m core = 29 boxes = 166.8 + 11.07 = 178.47	7% GST	21.86
	8% PST	EXEMPT
	TOTAL..	323.41

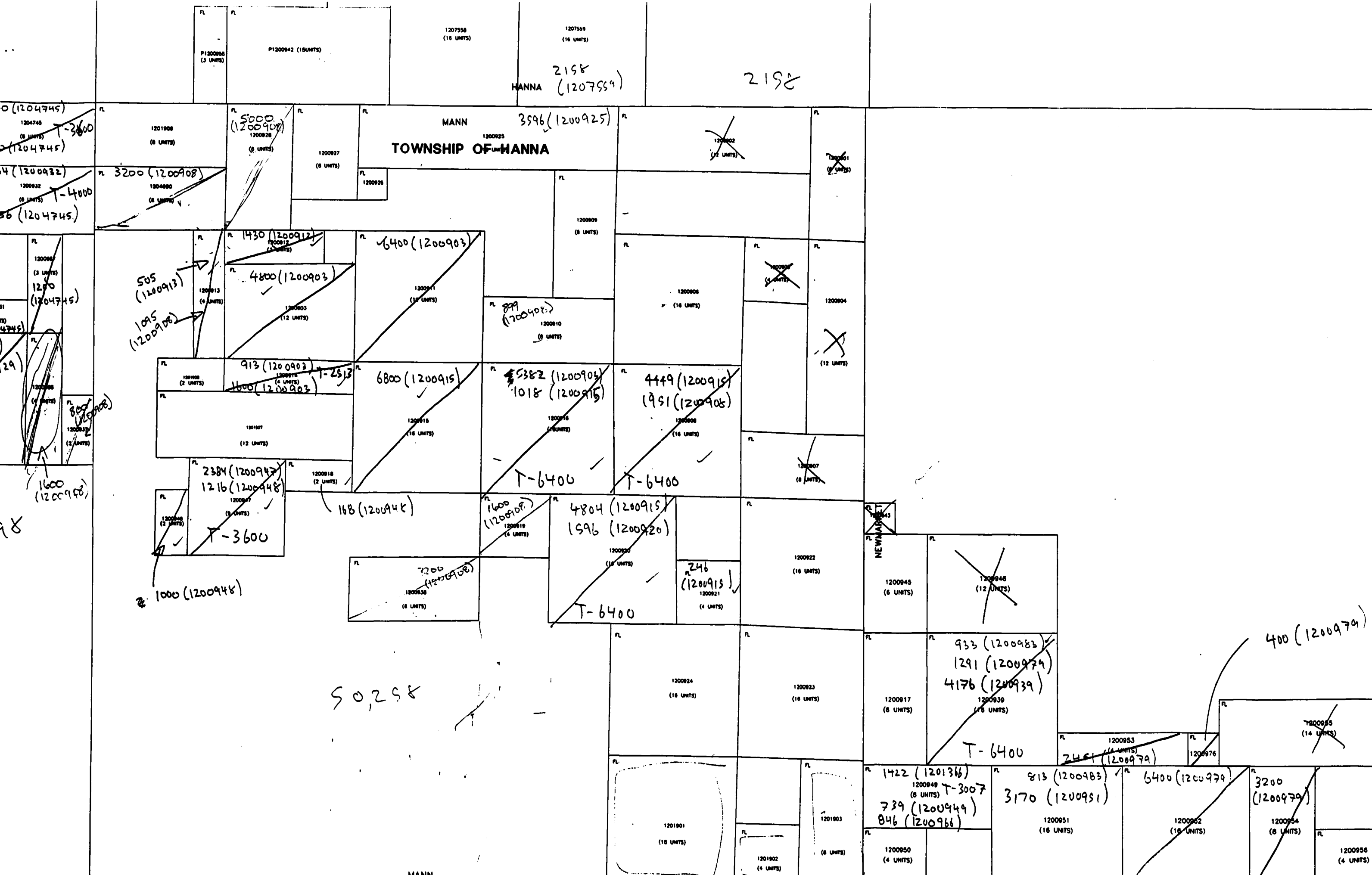
CONTRACT N° T-1732
 Footage drilled 457 METRES
 1500'

SUMMARY

Invoiced	27118.46
15% Service charge	960.28
7% GST	1965.51
8% PST	EXEMPT
TOTAL.....	30044.25

MAN45-01	45-02
11309. ²⁰	9681. ³⁶
852. ⁷⁹	
3575. ⁸³	4301. ²⁸
T 15737. ⁵²	13982. ⁶⁴
	920. ²⁰ demob.
222. ⁵⁶	178. ⁴⁷
15960. ³⁵	15081. ³¹

28078.74



P1200942 (15 UNITS)
1207558 (16 UNITS)
1207559 (16 UNITS)
HANNA 2158 (1207559)

MANN 3596 (1200925)
TOWNSHIP OF HANNA

0 (1204745)
1204746 (8 UNITS)
2 (1204745)
14 (1200932)
1200932 (8 UNITS)
56 (1204745)

1200988 (3 UNITS)
1200 (1204745)
4745
129
1200988 (4 UNITS)
1200987 (2 UNITS)
1600 (1200948)

18

505 (1200913)
1095 (1200908)
1430 (1200912)
1200913 (4 UNITS)
4800 (1200903)
1200903 (12 UNITS)
1200901 (16 UNITS)
1200910 (8 UNITS)
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1201007 (12 UNITS)
2384 (1200947)
1216 (1200948)
1200947 (8 UNITS)
1600 (1200948)
168 (1200948)
1200918 (2 UNITS)
1200945 (2 UNITS)
1200946 (2 UNITS)
1000 (1200948)

50,258

1200927 (8 UNITS)
1200926
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1200908 (16 UNITS)
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4804 (1200915)
1596 (1200920)
1200920 (16 UNITS)
1200921 (4 UNITS)
1200922 (16 UNITS)
1200945 (6 UNITS)
1200946 (12 UNITS)

NEW MARKET
1200945 (6 UNITS)
1200946 (12 UNITS)
933 (1200983)
1291 (1200979)
4176 (1200939)
1200939 (16 UNITS)
T-6400
1200953 (4 UNITS)
1200976

400 (1200979)

1422 (1201366)
1200949 (8 UNITS)
739 (1200949)
846 (1200966)
1200950 (4 UNITS)
813 (1200983)
3170 (1200951)
1200951 (16 UNITS)
6400 (1200979)
1200952 (16 UNITS)
3200 (1200979)
1200954 (8 UNITS)
1200956 (4 UNITS)

Report of Work Conducted After Recording Claim

Mining Act

MAN45-01
Transaction Number
W9560.00492

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



42A15SW0054 W9560-00492 MANN

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, ONT. P4N 7H9		Telephone No. (705) 267-1188
Mining Division PORCUPINE	Township/Area MANN	M or G Plan No.
Dates Work Performed From: OCTOBER 16, 1995		To: OCTOBER 19, 1995

Work Performed (Check One Work Group Only)

Work Group	Type
Geotechnical Survey	
Physical Work, Including Drilling	DOMINIK DRILLING - 245m hole MAN45-01
Rehabilitation	
Other Authorized Work	
Assays	
Assignment from Reserve	

RECORDED

NOV 14 1995

Receipt _____

Total Assessment Work Claimed on the Attached Statement of Costs \$ 18,646.

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	409 KING ST. P.O. Box 479, PORCUPINE, ON, P0N 1C0

(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 Nov. 14/95	Recorded Holder or Agent (Signature) <i>Christine Petch</i>
--	---------------------------	--

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 CHRISTINE PETCH, FALCONBRIDGE LTD, 571 MONETA AVE. TIMMINS, ON P4N 7H9		
Telephone No. (705) 267-1188	Date Nov. 14/1995	Certified By (Signature) <i>Christine Petch</i>

For Office Use Only

18,646	Total Value Cr. Recorded	Date Recorded	Mining Recorder	
	Deemed Approval Date Feb. 12/96	Date Approved MARCH 22, 1996		
	Date Notice for Amendments Sent FEB. 6, 1996			



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

MAN 45-01

Transaction No./N° de transaction

W9560.00492

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

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

1. Direct Costs/Coûts directs

Type	Description	Amount Montant	Totals Total global
Wages Salaires	Labour Main-d'oeuvre		
	Field Supervision Supervision sur le terrain	1800	1800
Contractor's and Consultant's Fees Droits de l'entrepreneur et de l'expert- conseil	Type DCHNIK	15960 ³	
			15960
Supplies Used Fournitures utilisées	Type CORE RACKS	136	
			136
Equipment Rental Location de matériel	Type TRUCK-TILDEN	350. ⁰⁰	
	ATV	250. ⁰⁰	
	RADIO/CELLPHONE	52. ⁰⁰	652. ⁰⁰
Total Direct Costs Total des coûts directs			18546

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 GASOLINE	100.00	
			100.
Food and Lodging Nourriture et hébergement			
Mobilization and Demobilization Mobilisation et démobilisation			
Sub Total of Indirect Costs Total partiel des coûts indirects			100
Amount Allowable (not greater than 20% of Direct Costs) Montant admissible (n'excédant pas 20 % des coûts directs)			100
Total Value of Assessment Credit (Total of Direct and Allowable Indirect costs)			18646

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.

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 CHRISTINE PETZL 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 Christine Petzl Date Nov. 14, 1995

**Ministry of
Northern Development
and Mines****Ministère du
Développement du Nord
et des Mines****(705) 360-8330
Fax: 360-2001****File: W9560.00492****April 17, 1996****Falconbridge Limited
P.O. Box 1140
571 Moneta Avenue
Timmins, ON
P4N 7H9****Subject: APPROVAL OF ASSESSMENT WORK CREDITS ON MINING
CLAIM(S) P-1200908 et al IN MANN TOWNSHIP**

Assessment work credits have been approved as outlined on the attached Credit Form. The credits have been approved under Section 16 (Exploratory Drilling) of the Mining Act Regulations.

The approval date is March 22, 1996.

If you have any questions regarding this correspondence, please contact Terry Binkley at (705) 360-8338.

Yours sincerely,



**Gary White
Mining Recorder
Porcupine Mining Division**

/tb

CREDIT FORM

APRIL 17, 1996
OUR FILE: W9560.00492

CLAIM NUMBERS	VALUE OF WORK PERFORMED	CREDITS APPLIED	CREDITS ASSIGNED
P-1200908	\$12,353		\$12,353
P-1200920	6,107		6,107
P-1200913		\$1,095	
P-1204690		3,200	
P-1200928		4,814	
P-1200988		1,600	
P-1200937		800	
P-1200938		3,200	
P-1200919		1,600	
P-1200910		2,151	
	<hr/>	<hr/>	<hr/>
	\$18,460	\$18,460	\$18,460

G-3533
MANN
G-3531

AREAS WITHHELD 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

W.P.R. WATER POWER RESERVE

W.O. 87 / 87

(R) MINING AND SURFACE RIGHTS WITHHELD UNDER SECTION 36 OF THE MINING ACT (OCTOBER 10, 1997) BY W.O. 87/87.

SURFACE AND MINING RIGHTS RE-OPENED TO PROSPECTING, STAKING OUT, SALE OR LEASE UNDER SECTION 36 OF THE MINING ACT (JANUARY 1998) EFFECTIVE 90-857-08 AT 7AM EAST ORDER NO. O-P 4/90 NR DATED 50-AUG-92.

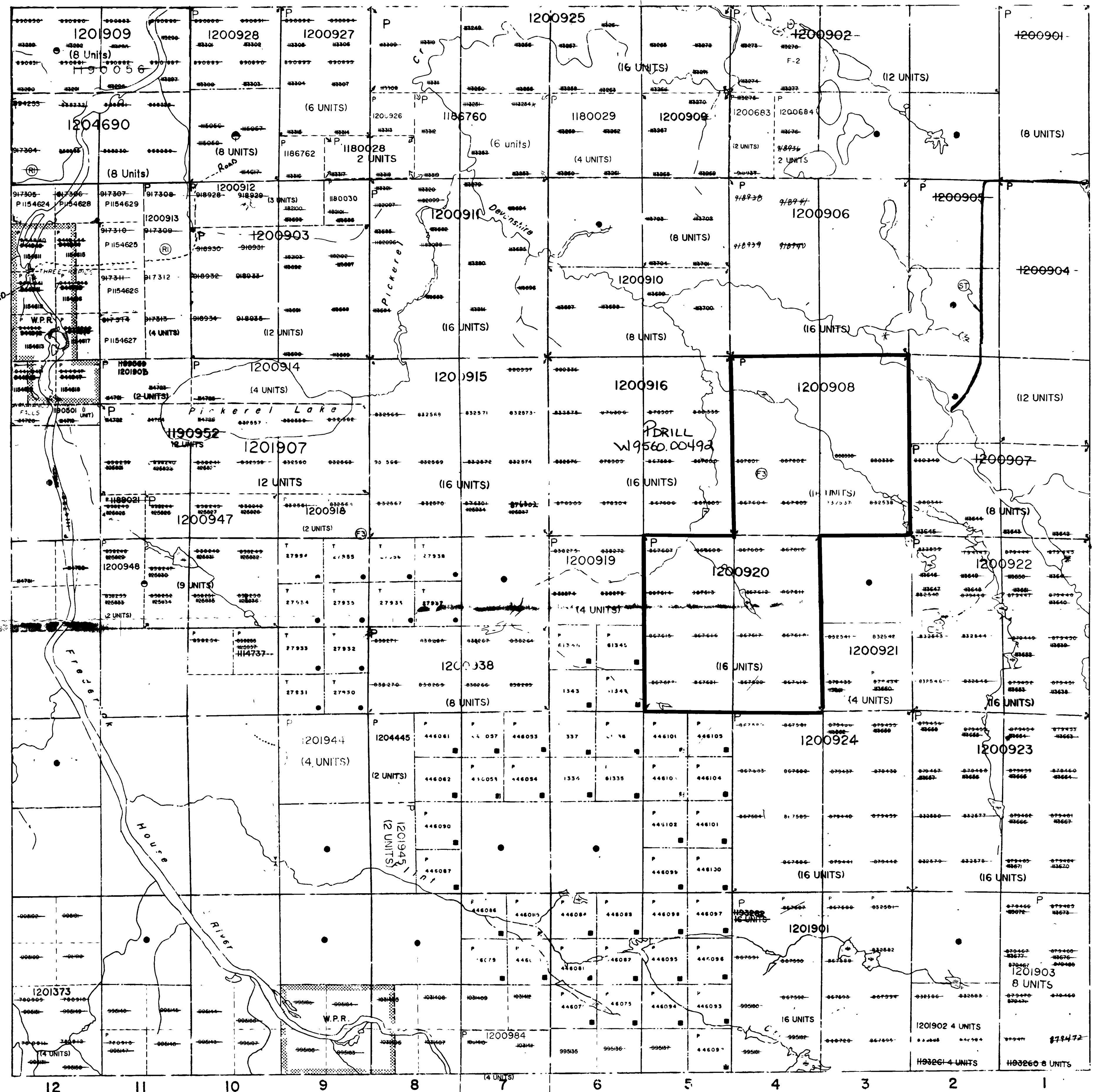
NOTE: P1125837 PLOTTED IN ERROR, S/B P1141737.

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.

CUFF TOWNSHIP

ANNANDALE TOWNSHIP

LITTLE TOWNSHIP

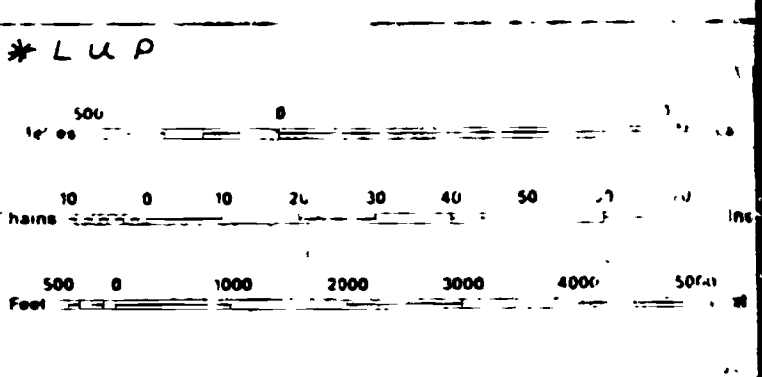


LEGEND

- HIGHWAY / ROUTE NO.
- RAILROAD
- TRAILS
- CURVED LINES
- TOWNSHIP / RANGE LINES
- LOTS / MINING CLAIMS / ETC.
- MINING CLAIM
- UTILITY LINES
- RAILWAY / RIGHT OF WAY
- UTILITY LINES
- NON-PERMANENT STREAM
- FLOODING / HEIGHT OF FLOODING RIGHTS
- SUBDIVISION / ON CONVEYANCE PLAN
- RESERVATIONS
- ORIGINAL SHORELINE
- MARSH OR MUSKEG
- MINES
- REVERSE MONUMENT

DISPOSITION OF CROWN LANDS

TYPE OF DOCUMENT	SYM.
PATENT, SURFACE & MINING RIGHTS	P
" SURFACE RIGHTS ONLY	S
" MINING RIGHTS ONLY	M
LEASE, SURFACE & MINING RIGHTS	L
" SURFACE RIGHTS ONLY	SL
" MINING RIGHTS ONLY	ML
LICENCE OF OCCUPATION	O
ORDER IN COUNCIL	OC
RESERVATION	R
CANCELLED	C
SAND & GRAVEL	G
LAND USE PERMIT	U
NOTE: MINING RIGHTS IN PARCELS PATENTED PRIOR TO 1913, VESTED IN ORIGINAL PATENTEE BY LANDS ACT, R.S.O. 1970, CHAP. 380, SEC. 6.	



NEW MARKET TOWNSHIP

III

II

I

Received Sept 22/86

TOWNSHIP

MANN

M.N.R. ADMINISTRATIVE DISTRICT

COCHRANE

MINING DIVISION

PORCUPINE

LAND TITLES / REGISTRY DIVISION

COCHRANE

Ministry of Natural Resources Ontario

Ministry of Northern Development and Mines

SEPTEMBER 1986

G-3537

