

DIA



41016SE9060 21 MARION

010

TOWNSHIP: Marion Twp

REPORT NO: 21

WORK PERFORMED FOR: Falconbridge Ltd.

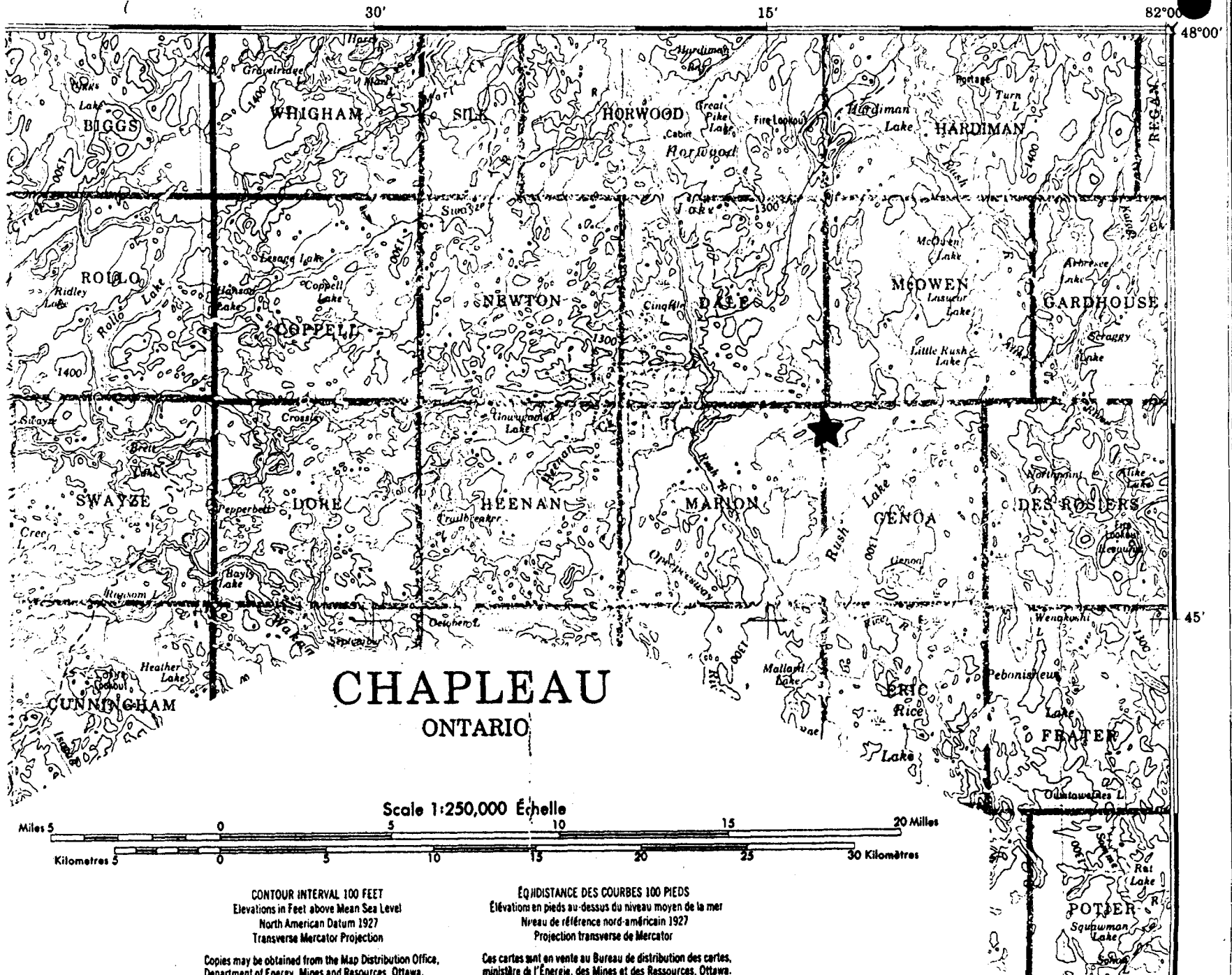
RECORDED HOLDER: SAME AS ABOVE

: OTHER

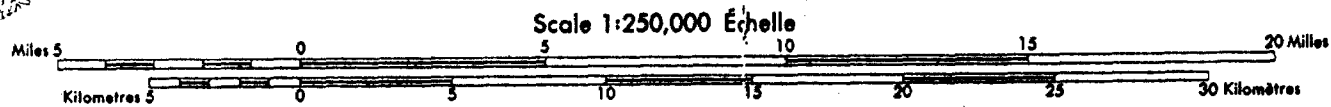
<u>CLAIM NO.</u>	<u>HOLE NO.</u>	<u>FOOTAGE</u>	<u>DATE</u>	<u>NOTE</u>
P583867	MN56-01	407m	Oct 92	(1)
P583868	MN66-01	358	Nov 92	(1)

NOTES:

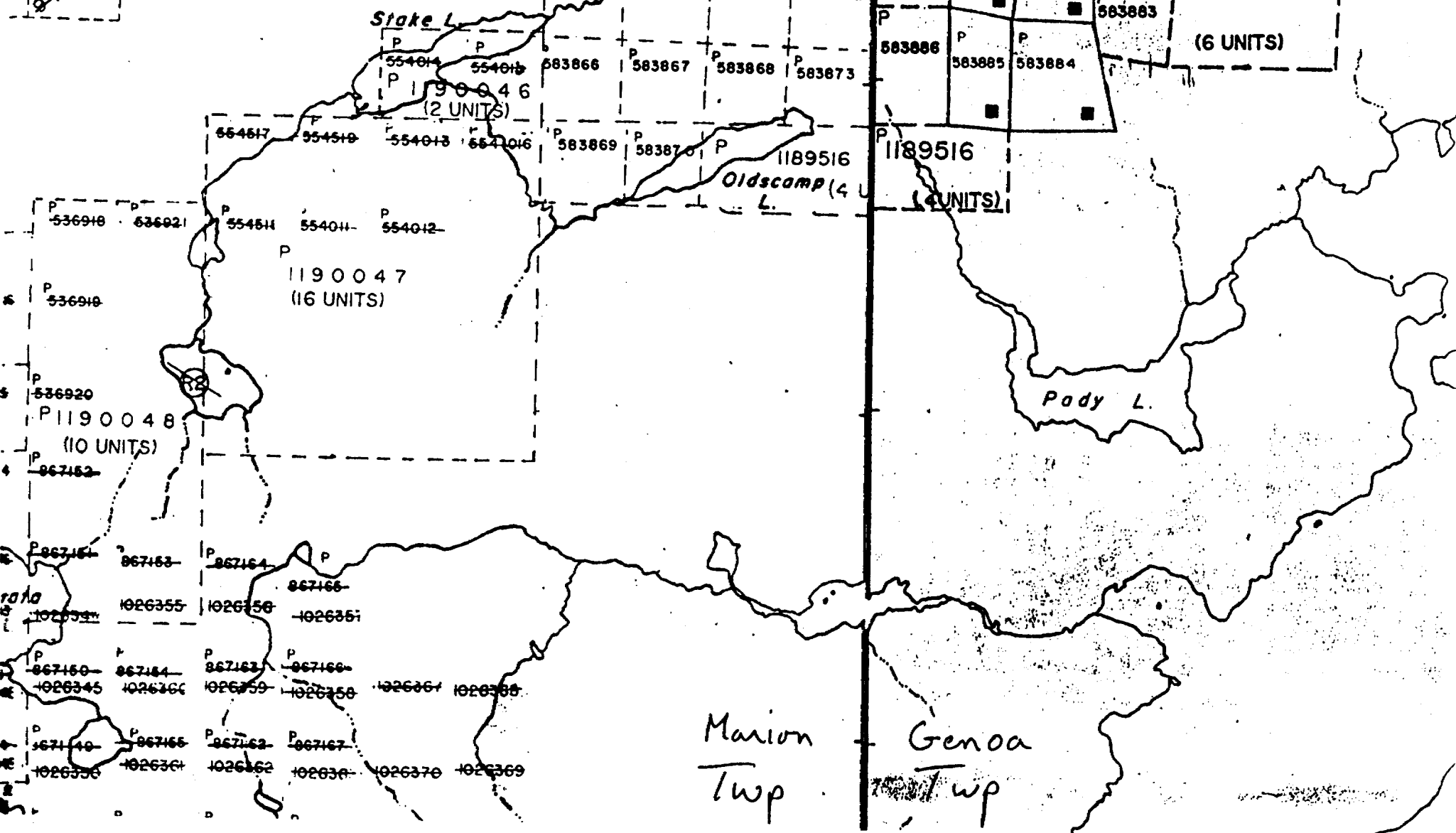
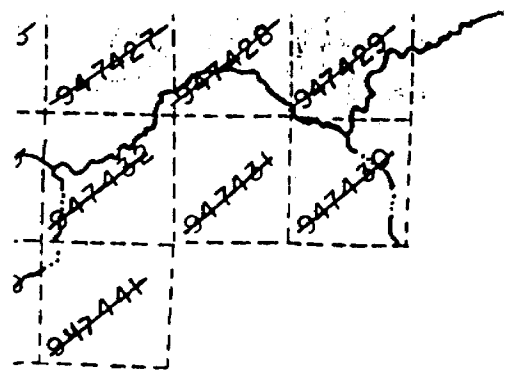
(1) Report of Work # 9360 00056  
Filed May 28th 1993



**CHAPLEAU**  
ONTARIO



<p>CONTOUR INTERVAL 100 FEET Elevations in Feet above Mean Sea Level North American Datum 1927 Transverse Mercator Projection</p>	<p>ÉCHIDISTANCE DES COURBES 100 PIEDS Élévations en pieds au-dessus du niveau moyen de la mer Niveau de référence nord-américain 1927 Projection transverse de Mercator</p>
<p>Copies may be obtained from the Map Distribution Office, Department of Energy, Mines and Resources, Ottawa.</p>	<p>Ces cartes sont en vente au Bureau de distribution des cartes, ministère de l'Énergie, des Mines et des Ressources, Ottawa.</p>



5300000mN

408000mE

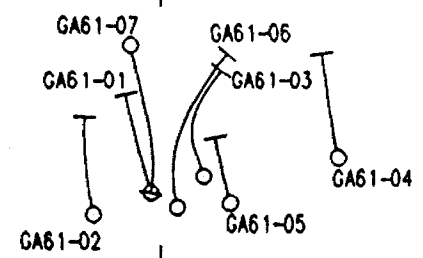
410000mE

5300000mN

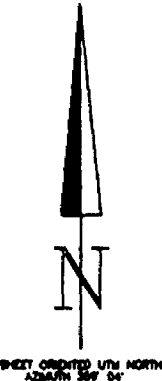
5298000mN

5298000mN

408000mE



ASTRONOMIC



FALCONBRIDGE LIMITED

Exploration Division

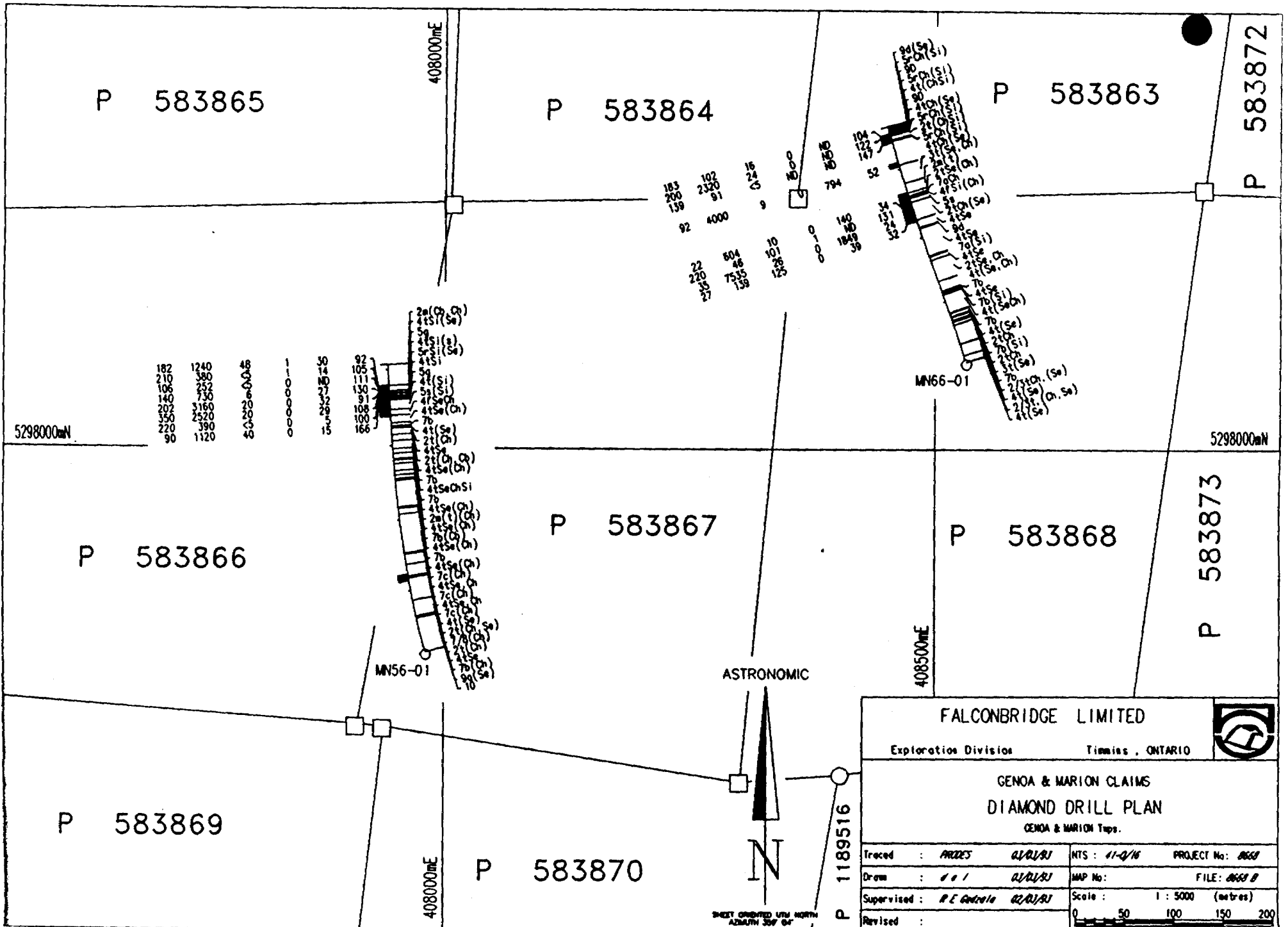
Timmins, ONTARIO



GENOA & MARION CLAIMS  
DIAMOND DRILL PLAN

GENOA & MARION Taps.

Traced : <i>AKZES</i>	<i>01/01/01</i>	NTS : <i>11-0/16</i>	PROJECT No: <i>0660</i>
Drawn : <i>d o l</i>	<i>01/01/01</i>	MAP No:	FILE: <i>0660/1</i>
Supervised : <i>R E Gault</i>	<i>02/01/01</i>	Scale : 1 : 20000 (metres)	
Revised :		0 200 400 600 800	



P 583865

P 583864

P 583863

P 583872

5298000mN

5298000mN

P 583866

P 583867

P 583868

P 583873

P 583869

P 583870

ASTRONOMIC

N

P 1189516

FALCONBRIDGE LIMITED

Exploration Division

Timmins, ONTARIO



GENOA & MARION CLAIMS

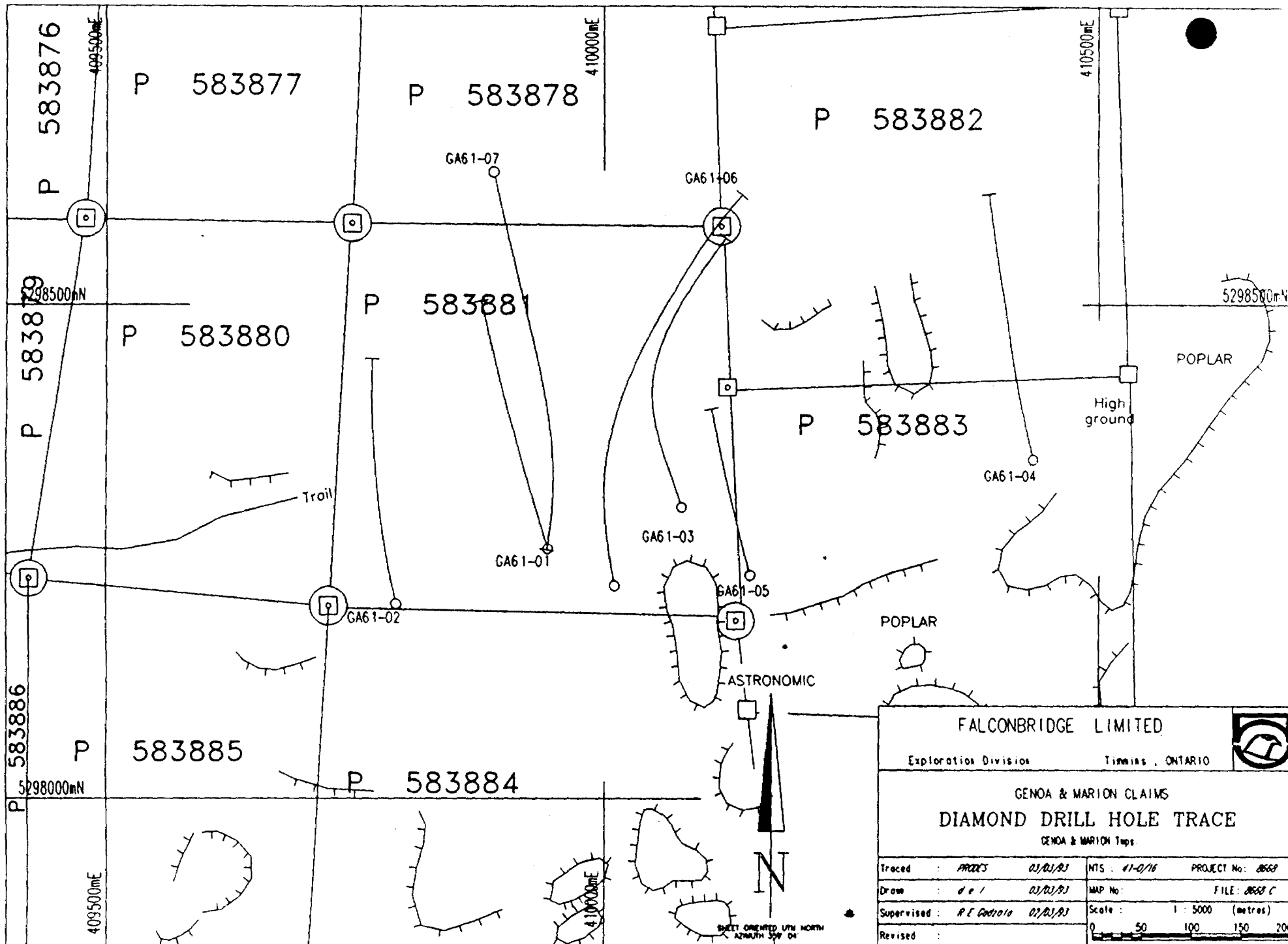
DIAMOND DRILL PLAN

GENOA & MARION TRPS.

Traced	: PRDES	01/01/81	NTS	: 11-0/16	PROJECT No.	: 0668
Drawn	: / /	01/01/81	MAP No.		FILE:	: 0668 B
Supervised	: P.E. Andrele	02/01/81	Scale	: 1 : 5000	(metres)	
Revised						



SHEET ORIENTED WITH NORTH  
AZIMUTH 359° 04'



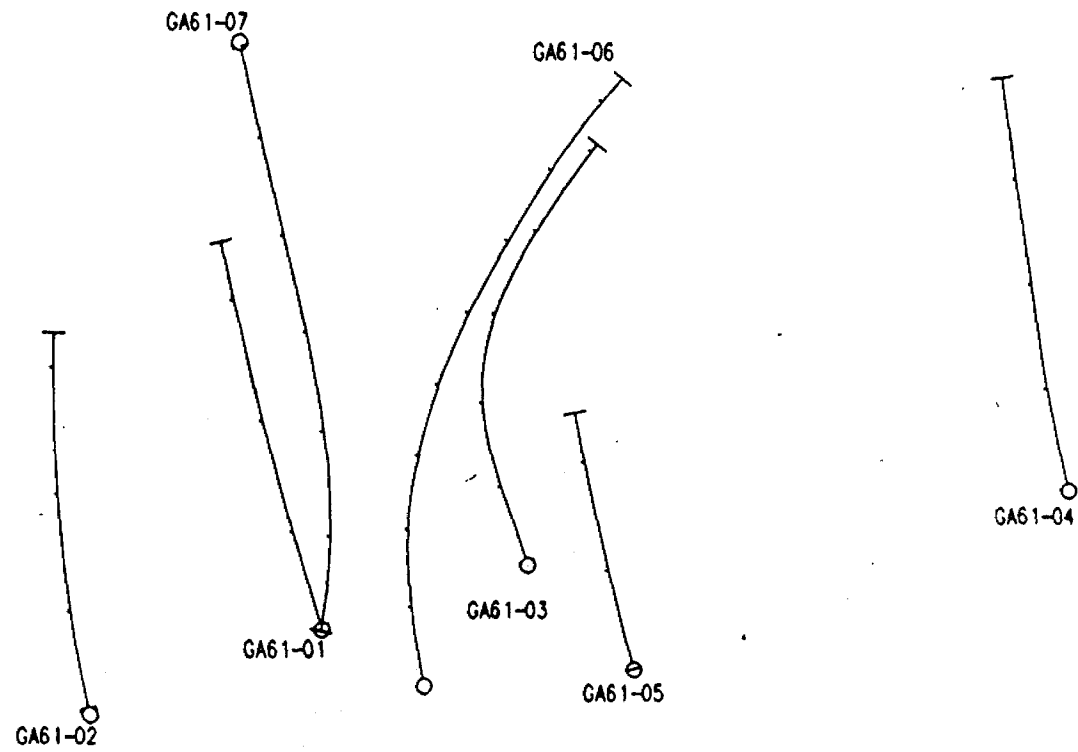
**FALCONBRIDGE LIMITED**

Exploration Division      Timmins, ONTARIO

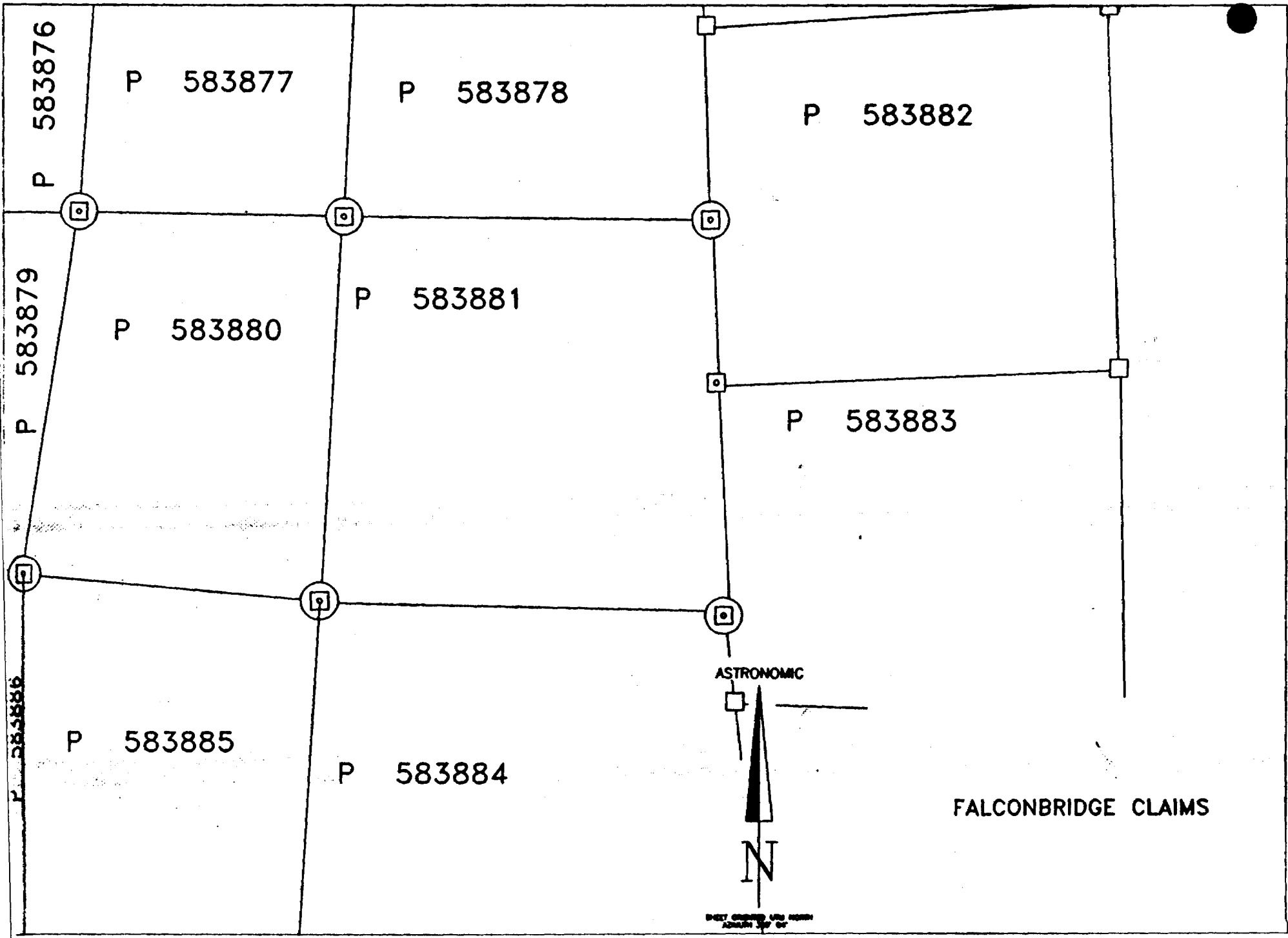
**GENOA & MARION CLAIMS**  
**DIAMOND DRILL HOLE TRACE**  
 GENOA & MARION TAPS

Traced :	PRED'S	01/01/83	MIS : 41-0/16	PROJECT No: 0668
Draw :	d e l	01/01/83	MAP No:	FILE: 0668 C
Supervised :	R E Godwin	01/01/83	Scale :	1 : 5000 (metres)
Revised :				0    50    100    150    200

SHEET ORIENTED WITH NORTH  
AZIMUTH 339.04



DIAMOND DRILL HOLE TRACE



P 583876

P 583877

P 583878

P 583882

P 583879

P 583880

P 583881

P 583883

P 583886

P 583885

P 583884

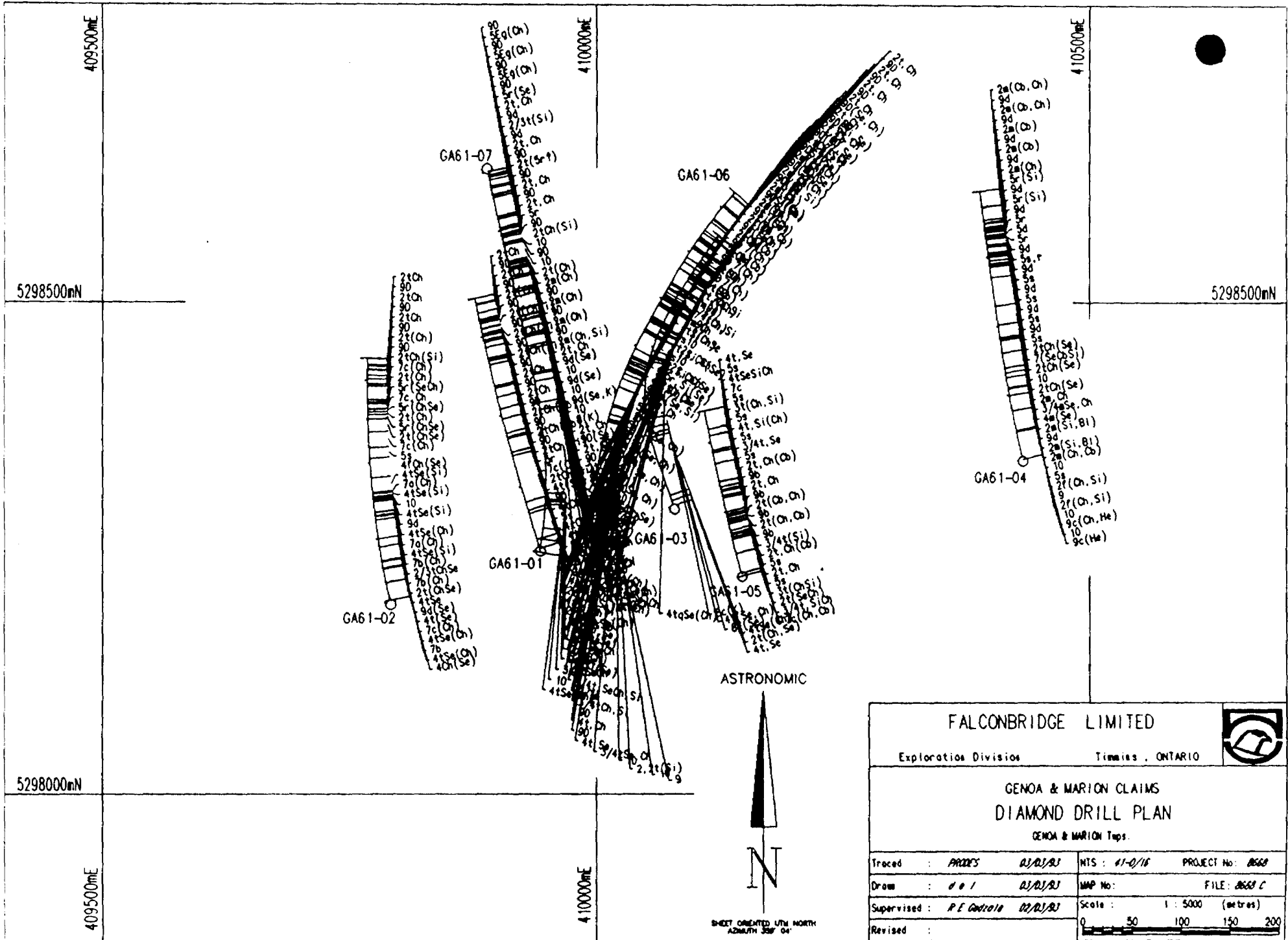
ASTRONOMIC


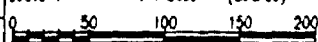
N

FALCONBRIDGE CLAIMS

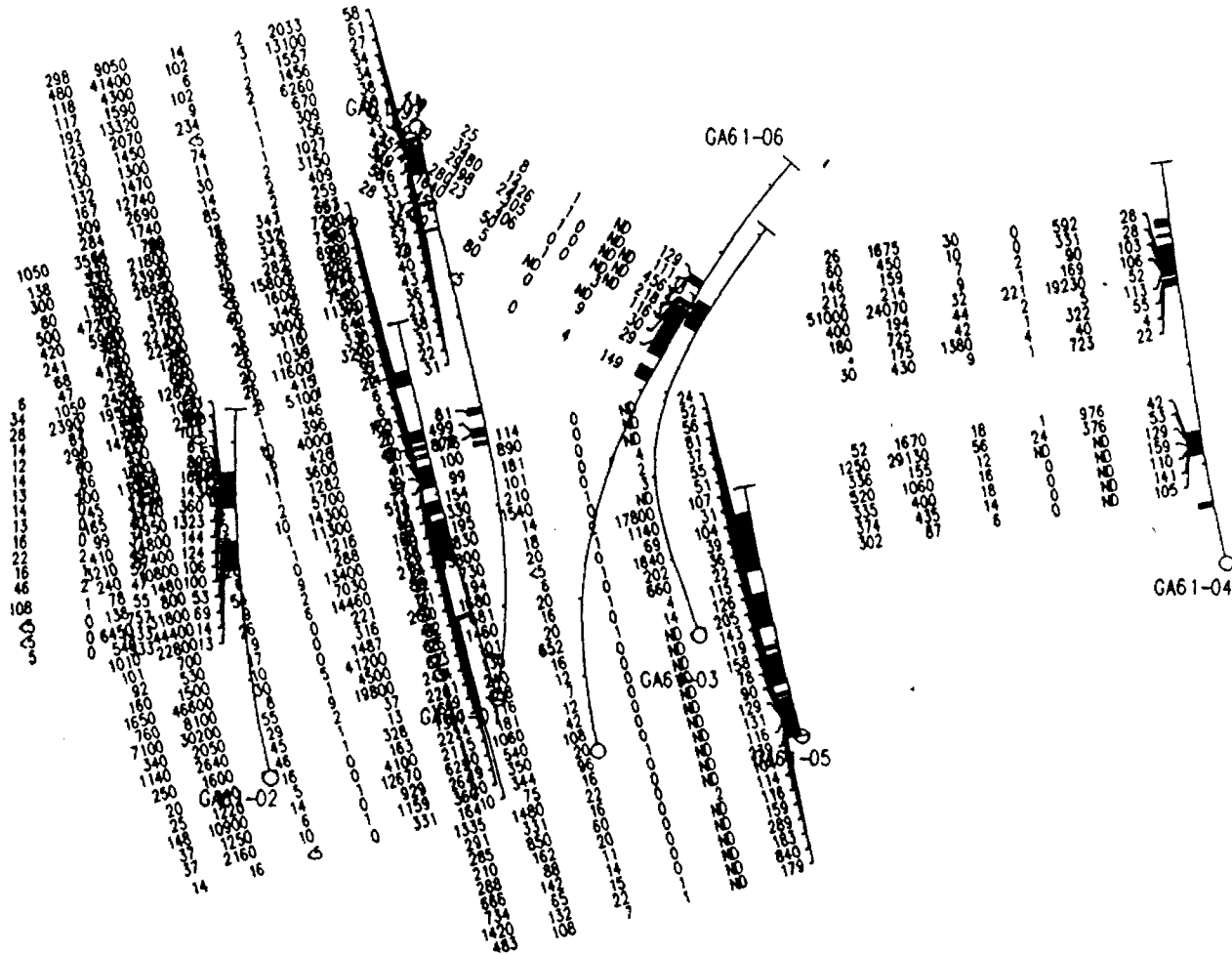
DEPT OF LAND AND SURVEY  
ADAMSON ST 6/07





<b>FALCONBRIDGE LIMITED</b>		
Exploration Division      Timmins, ONTARIO		
<b>GENOA &amp; MARION CLAIMS</b>		
<b>DIAMOND DRILL PLAN</b>		
GENOA & MARION TAPS		
Traced : <i>PRODES</i> <i>03/03/03</i>	NTS : <i>41-0/16</i>	PROJECT No: <i>0660</i>
Draw : <i>d o l</i> <i>03/03/03</i>	MAP No:	FILE: <i>0660 C</i>
Supervised : <i>R E Gaudin</i> <i>02/03/03</i>	Scale :        1 : 5000 (metres)	
Revised :		

83	67
290	640
1040	1200
520	1420
630	1360
700	1110
182	21
940	197
290	57
175	110
1020	1060
530	56
770	830
32	82
15	410
8	5930
	35



Cu >1000 ppm , Zn >1000 ppm , Au >100 ppb , Ag >10 ppm , Pb >100 ppm , Ni >100 ppm

### ASSAYS



HOLE NUMBER: MN56-01

## DRILL HOLE RECORD

DATE: 01/28/1993

FROM TO	ROCK TYPE	TEXTURE AND STRUCTURE	ANGLE TO CA	ALTERATION	MINERALIZATION	REMARKS
0.00 TO 4.10	OVERBURDEN «{ob}»					
4.10 TO 58.08	DIABASE «10»	-medium grey-green. -fine to medium grained.  -massive unit. -hard, moderately magnetic. -rubby core in the first 4-5m of hole. -lost core between 13.25-16.10m. -middle part of the unit is medium to coarse grained. -last part of unit (last 5m) becomes fine grained. -sharp lower contact at 30°/CA.		-trace epidote.	-1% magnetite.	
58.08 TO 59.43	QUARTZ PORPHYRY DYKE «9q(Se)»	-creamy brown-grey. -fine to medium grained.  -massive unit with 10-15% quartz eyes. -quartz eyes are up to 8mm in diameter, average size 1-2mm. -strong foliation at 30-40°/CA. -sharp downhole contact at 45°/CA.		-moderate sericitization.		
59.43 TO 61.27	MAFIC DYKE «7b(Ch)»	-fine to medium grained. -medium grey.  -massive unit. -moderately foliated at 35°/CA. -unit becomes finer grained towards lower contact. -sharp lower contact at 50°/CA.		-moderate chloritization (1-2% chlorite flakes throughout).		
61.27 TO 85.75	FELSIC TUFF «4tSe»	-creamy grey-yellow. -fine to medium grained.  -bedded unit, bedding at 35-40°/CA. -unit contains rare lapilli sized felsic fragments. -fragments are subrounded. -gradational lower contact. -from 73.15-74.70m, unit contains 10-15% quartz eyes, average size 2-3mm.		-moderate to strong (pervasive) sericitization. -weak pervasive chloritization.	-trace pyrite.	

HOLE NUMBER: MN56-01

DRILL HOLE RECORD

LOGGED BY: J. AULTMAN

PAGE: 2

HOLE NUMBER: MN56-01

## DRILL HOLE RECORD

DATE: 01/28/1993

FROM TO	ROCK TYPE	TEXTURE AND STRUCTURE	ANGLE TO CA	ALTERATION	MINERALIZATION	REMARKS
85.75 TO 118.67	MAFIC TO INTER-MEDIATE TUFF «2t(Ch)»	-medium to dark grey-green. -fine to medium grained.  -banded/bedded unit. -bedding at 35-40°/CA. -unit contains 2-3% garnets (1-2mm in diameter). -garnets are mostly found in the mafic bands. -unit is moderately foliated parallel to bedding. -rare lapilli sized felsic fragments. -unit is slightly fractured (irregular orientations, crosscutting bedding). -fractures are carbonate and quartz filled. -sharp lower contact at 40°/CA.		-moderate chloritization.	-trace pyrite and pyrrhotite. -115.55-116.15m, irregular quartz vein with trace to 0.5% pyrite and pyrrhotite. -118.37-118.63m, irregular quartz vein with trace pyrite, pyrrhotite and 1-2% dravite.	
118.67 TO 120.75	INTER-MEDIATE INTRUSIVE DYKE «7/8(Ch)»	-medium to coarse grained. -dark grey.  -massive unit. -moderate foliation at 50°/CA. -unit has a speckled appearance. -the white flecks (10-15%) appear to be carbonate. -sharp lower contact at 50°/CA.		-moderate chloritization.	-trace pyrite.	
120.75 TO 137.65	MAFIC TO INTER-MEDIATE TUFF «2t(Ch,Se)»	-dark grey-green becoming grey near end of unit. -fine to medium grained.  -very similar to unit between 85.75-118.67m. -unit becomes more intermediate to felsic in composition in the last 2-3m of the unit. -unit has a gradational lower contact. -1-2% garnets. -bedding at 35-40°/CA.		-moderate chloritization (decreases in strength with depth), weak to moderate sericitization (pervasive, increases in strength with depth).	-trace pyrite and pyrrhotite.	
137.65 TO 151.55	FELSIC TUFF «4t(Se)»	-light to medium grey. -fine to medium grained.  -banded/bedded unit. -bedding at 40°/CA. -unit contains lapilli sized fragments (felsic in composition). -unit is easy to scratch with a scribe. -sharp irregular lower contact.		-moderate pervasive sericitization. -weak chloritization.	-trace pyrite.	

HOLE NUMBER: MN56-01

DRILL HOLE RECORD

LOGGED BY: J. AULTMAN

PAGE: 3

HOLE NUMBER: MN56-01

## DRILL HOLE RECORD

DATE: 01/28/1993

FROM TO	ROCK TYPE	TEXTURE AND STRUCTURE	ANGLE TO CA	ALTERATION	MINERALIZATION	REMARKS
151.55 TO 153.55	MAFIC DYKE «7c(Ch)»	-dark green. -coarse grained.  -massive unit, weakly magnetic. -irregular carbonate filled fractures. -irregular lower contact.		-weak to moderate chloritization.		
153.55 TO 207.80	FELSIC TUFF «4tSe,Ch»	-fine grained. -light creamy grey to dark grey-green.  -bedded unit similar to unit between 137.65-151.55m. -bedding at 40-45°/CA in last 10-15m of unit. -more chlorite rich areas are present in dark green bands. -trace garnets in chlorite rich sections. -rare quartz eyes. -sharp irregular lower contact. -from 188.15-188.45m, white bull quartz vein at 20°/CA.		-strong sericitization. -moderate to strong chloritization. -from 175.0-198.0m, unit is strongly chloritized.		
207.80 TO 216.25	MAFIC INTRUSIVE DYKE «7c(Ch)»	-medium to coarsed grained. -dark green.  -massive unit, soft, weakly magnetic. -sharp lower contact at 40°/CA.		-moderate chloritization. -weak carbonatization.	-trace pyrite.	
216.25 TO 216.90	FELSIC TUFF «4tSe,Ch»	-similar to last part of unit between 153.55-207.80m. -sharp lower contact at 50°/CA.				
216.90 TO 218.27	MAFIC INTRUSIVE DYKE «7c(Ch)»	-similar to unit between 207.80-216.25m. -sharp lower contact at 45°/CA.				
218.27 TO 254.26	FELSIC TUFF «4tSe(Ch)»	-fine grained. -light grey-yellow. -last 2-3m of unit has a rusty brown tone along fractures.  -bedded unit, bedding at 50°/CA. -rare lapilli size felsic fragments present. -moderate foliation present parallel to bedding. -sharp lower contact at 20°/CA.		-moderate pervasive chloritization. -strong pervasive sericitization. -from 222.0-227.0m, strong chloritization.		

HOLE NUMBER: MN56-01

DRILL HOLE RECORD

LOGGED BY: J. AULTMAN

PAGE: 4

HOLE NUMBER: MN56-01

## DRILL HOLE RECORD

DATE: 01/28/1993

FROM TO	ROCK TYPE	TEXTURE AND STRUCTURE	ANGLE TO CA	ALTERATION	MINERALIZATION	REMARKS
254.26 TO 254.85	MAFIC DYKE «7b»	-fine grained. -medium green.  -massive unit. -sharp lower contact at 30°/CA. -slightly magnetic.		-weak chloritization.	-trace pyrite.	
254.85 TO 256.08	FELSIC TUFF «4tSe(Ch)»	-similar to unit between 218.27-254.26m. -sharp lower contact at 60°/CA.				
256.08 TO 261.10	MAFIC INTRUSIVE (DYKE?) «7b(Cb)»	-dark green with pink-white spots. -coarse grained.  -massive unit, sharp cooling fringe along the upper contact. -unit contains 10% feldspar phenocrysts. -sharp irregular lower contact.		-weak to moderate chloritization. -moderate carbonatization.		
261.10 TO 266.80	FELSIC TUFF «4tSe(Ch)»	-similar to unit between 218.27-254.26m. -gradational lower contact.				
266.80 TO 276.50	MAFIC VOLCANIC OR TUFF «2m(t)(Ch)»	-fine to medium grained. -medium to dark green.  -weakly bedded to massive unit. -bedding at 45-50°/CA. -beds are felsic rich. -unit contains 1-3% garnets which are 1-3mm in diameter. -unit also contains trace to 0.5% chlorite flakes. -irregular carbonate filled fractures crosscut any bedding present. -gradational lower contact.		-moderate chloritization.	-trace to 0.5% pyrite.	
276.50 TO 281.25	FELSIC TUFF «4tSe(Ch)»	-similar to unit between 218.27-254.26m, except last 0.5m of unit. -in the last 0.5m of unit, the bedding is contorted to become parallel to the core axis. -irregular brecciated lower contact.				

HOLE NUMBER: MN56-01

DRILL HOLE RECORD

LOGGED BY: J. AULTMAN

PAGE: 5

HOLE NUMBER: MN56-01

## DRILL HOLE RECORD

DATE: 01/28/1993

FROM TO	ROCK TYPE	TEXTURE AND STRUCTURE	ANGLE TO CA	ALTERATION	MINERALIZATION	REMARKS
281.25 TO 282.75	MAFIC DYKE «7b»	-medium grained. -dark grey-green.  -massive unit. -sharp lower contact at 60°/CA. -moderately hard and slightly magnetic.		-weak chloritization.		
282.75 TO 290.10	FELSIC TUFF «4tSeChSi»	-similar to unit between 218.27-254.26m. -bedding at 40-50°/CA. -average 50°/CA. -contorted bedding at 15°/CA at 284.05-284.20m. -285.48-285.63m, irregular quartz vein. -285.63-285.95m, highly deformed fractured rock. -285.95-285.97m, fault gouge at 70°/CA. -sharp lower contact at 30°/CA.		-weak to moderate silicification.		
290.10 TO 296.13	MAFIC INTRUSION (DYKE) «7b»	-very similar to unit between 256.08-261.10m. -sharp lower contact at 35°/CA.				
296.13 TO 306.40	FELSIC TUFF «4tSe(Ch)»	-light grey-yellow to medium grey-green. -bedded unit, bedding at 40-50°/CA, average 50°/CA. -rare lapilli sized felsic fragments. -unit contains 1-3% garnets. -garnets are present in the chlorite rich beds. -gradational lower contact.		-moderate to strong pervasive sericitization. -moderate chloritization.	-trace to 0.5% pyrite, mostly in the chlorite rich zones.	
306.40 TO 314.60	MAFIC TUFF «2t(Ch,Cb)»	-fine to medium grained. -light grey to dark green in colour.  -bedded unit, bedding at 50°/CA. -unit contains 5-10% felsic rich bands/beds. -unit is moderately to strongly magnetic and contains 5-10% garnets. -garnets are 1-2mm in diameter. -sharp lower contact at 50°/CA.		-moderate carbonatization. -moderate chloritization.	-trace to 1% pyrite. -trace to 1% magnetite. -trace pyrrhotite.	
314.60 TO 323.37	FELSIC TUFF «4tSe»	-buff-grey. -fine to medium grained.  -bedded unit, bedding at 40-45°/CA, average 40°. -soft unit, easily marked by a scribe. -rare lapilli sized fragments.		-moderate to strong pervasive sericitization.		

HOLE NUMBER: MN56-01

DRILL HOLE RECORD

LOGGED BY: J. AULTMAN

PAGE: 6



HOLE NUMBER: MN56-01

## DRILL HOLE RECORD

DATE: 01/28/1993

FROM TO	ROCK TYPE	TEXTURE AND STRUCTURE	ANGLE TO CA	ALTERATION	MINERALIZATION	REMARKS
323.37 TO 324.95	MAFIC TUFF «2t(Ch)»	-fragments are elongated parallel to bedding. -fragments are elongated 4-5:1. -moderate foliation parallel to bedding. -sharp lower contact at 45°/CA.  -medium green with grey bands. -fine grained.				
324.95 TO 326.14	FELSIC TUFF «4t(Se)»	-bedded unit, bedding at 50-55°/CA. -unit contains 1-2% felsic beds and fragments. -10-15% garnets, 1-2mm in size. -gradational lower contact. -trace to 0.5% carbonate rhombs.  -buff-grey. -fine grained.		-moderate chloritization. -weak to moderate carbonatization.	-trace pyrite.	
326.14 TO 330.08	MAFIC DYKE «7b»	-similar to unit between 314.60-323.37m. -bedding at 50°/CA. -unit contains 3-4% felsic fragments. -fragments are elongated 3-4:1 parallel to bedding. -sharp lower contact at 30°/CA.  -medium grained. -dark green.		-moderate sericitization.		
330.08 TO 339.85	FELSIC TUFF «4tSe(Ch)»	-massive unit. -sharp lower contact at 45°/CA. -irregular carbonate filled fractures. -329.96-330.04m, carbonate filled fault zone. -zone at 35°/CA.  -buff-grey. -fine grained.		-moderate carbonatization.	-trace pyrite.	
		-similar to unit between 314.60-323.37m. -gradational lower contact. -1% lapilli sized fragments. -fragments increase in size downhole and are felsic in composition. -bedding at 45°/CA. -first 1.5m of the unit is weakly mafic in composition.		-weak pervasive chloritization. -moderate to strong pervasive sericitization.	-trace pyrite. -pyrite is present in last 3-4m of the unit as disseminated grains and blebs.	

HOLE NUMBER: MN56-01

DRILL HOLE RECORD

LOGGED BY: J. AULTMAN

PAGE: 7

FROM TO	ROCK TYPE	TEXTURE AND STRUCTURE	ANGLE TO CA	ALTERATION	MINERALIZATION	REMARKS
339.85 TO 347.82	FELSIC FRAGMENTAL «4fSeCh»	<ul style="list-style-type: none"> <li>-buff-grey-green to dark green.</li> <li>-fine grained matrix with fragments.</li> <li>-unit contains 40% fragments.</li> <li>-fragments appear to be felsic (50%) and mafic (50%) in composition.</li> <li>-fragments range from &lt;0.5cm in diameter to 5cm in diameter and are subangular to subrounded in shape.</li> <li>-fragments are strongly chloritized and sericitized.</li> <li>-unit appears to be weakly bedded at 50°/CA.</li> <li>-sharp irregular lower contact.</li> <li>-unit is moderately to strongly magnetic and easy to scratch with a scribe.</li> </ul>		<ul style="list-style-type: none"> <li>-strong chloritization and sericitization.</li> </ul>	<ul style="list-style-type: none"> <li>-majority of sulphides in the last 3m of the unit.</li> <li>-345.52-346.45m, 10-15% pyrrhotite, 10-15% pyrite.</li> <li>-sulphides are weakly bedded and finely disseminated.</li> <li>-bedding at 50°/CA.</li> <li>-346.45-347.82m, 10% pyrrhotite, 10% pyrite.</li> <li>-disseminated throughout.</li> </ul>	
347.82 TO 360.70	SULPHIDE IRON FORMATION «5s(Si)»	<ul style="list-style-type: none"> <li>-brassy brown-yellow.</li> <li>-fine grained.</li> <li>-sulphides are strongly magnetic.</li> <li>-sulphides compose 85% of unit, remaining 15% of unit consist of cherty material.</li> <li>-sulphides are weakly to moderately bedded at 40-50°/CA, average 40°/CA.</li> <li>-gradational lower contact.</li> </ul>		<ul style="list-style-type: none"> <li>-patchy strong silicification.</li> <li>-weak sericitization.</li> </ul>	<ul style="list-style-type: none"> <li>-unit consists of 40% pyrite and 60% pyrrhotite.</li> <li>-sulphides are bedded and also consist of nodules.</li> </ul>	
360.70 TO 363.19	FELSIC TUFF «4t(Si)»	<ul style="list-style-type: none"> <li>-creamy buff-grey.</li> <li>-fine grained.</li> <li>-bedded unit, bedding at 40°/CA.</li> <li>-unit is hard and strongly magnetic.</li> <li>-&lt;0.5% lapilli sized felsic fragments present.</li> <li>-first 0.5m of unit cherty in appearance.</li> <li>-sharp lower contact at 45°/CA.</li> </ul>		<ul style="list-style-type: none"> <li>-moderate silicification.</li> <li>-weak sericitization.</li> <li>-patchy moderate chloritization.</li> </ul>	<ul style="list-style-type: none"> <li>-2-3% magnetite.</li> <li>-3-5% pyrrhotite.</li> </ul>	
363.19 TO 363.65	GRAPHITIC ARGILLITE «5g»	<ul style="list-style-type: none"> <li>-black, fine grained.</li> <li>-weakly bedded unit, bedding at 40°/CA.</li> <li>-sharp lower contact at 50°/CA.</li> <li>-unit contains 5-10% cherty material, parallel to bedding.</li> <li>-unit is strongly conductive.</li> </ul>			<ul style="list-style-type: none"> <li>-1-2% pyrite.</li> <li>-1-2% pyrrhotite.</li> <li>-sulphides are disseminated throughout and parallel to bedding.</li> </ul>	

FROM TO	ROCK TYPE	TEXTURE AND STRUCTURE	ANGLE TO CA	ALTERATION	MINERALIZATION	REMARKS
363.65 TO 365.75	FELSIC TUFF «4tSi»	-fine grained. -white to brown-black.  -bedded unit, bedding at 40°/CA. -unit is moderately magnetic (patchy). -gradational lower contact. -first 1.35m of the unit contains 5-10% graphitic argillite. -from 363.90-365.00m, silicified layers are strongly insitu brecciated.		-strong silicification.	-3-5% pyrrhotite, trace chalcopyrite, sphalerite. -chalcopyrite and sphalerite near lower contact.	
365.75 TO 368.97	SILICIFIED SEDIMENTS OR IRON FORMATION «5rSi(Se)»	-buff-yellow-grey. -fine grained.  -bedded unit, bedding at 40°/CA. -90% buff-yellow beds and 10% cherty black beds. -unit is strongly magnetic (dark bands are magnetically stronger). -sharp lower contact at 40°/CA.		-strong silicification. -moderate sericitization.	-5% magnetite. -1% pyrrhotite in last 30cm of unit.	
368.97 TO 369.47	FELSIC TUFF OR CHERT UNIT «4tSi(s)»	-grey to black. -fine grained.  -weakly bedded to massive unit. -unit is hard and moderately to strongly magnetic. -unit contains 20% graphitic argillite and 50% chert. -1% yellow soft clay mineral also present. -sharp lower contact at 40°/CA.		-strong silicification. -moderate sericitization.	-10% pyrrhotite. -trace to 0.5% chalcopyrite. -3-5% pyrite. -pyrrhotite is semi massive and fracture controlled. -chalcopyrite is mixed with the pyrrhotite. -pyrite present as cubes.	
369.47 TO 372.47	GRAPHITIC ARGILLITE «5g»	-black, fine grained.  -weakly bedded at 40°/CA. -unit is slightly conductive. -moderate hardness. -weakly to moderately magnetic. -lost core between 371.48-372.18m. -weakly conductive. -sharp lower contact at 40°/CA.			-1-3% pyrite. -2-3% pyrrhotite. -sulphides are in small (1mm) wide beds in the argillite. -trace chalcopyrite along lower contact.	
372.47 TO 379.59	FELSIC TUFF «4tSi(Se)»	-light grey. -fine grained.  -bedded unit, bedding at 40°/CA.		-strong silicification.	-unit contains 15-20% pyrite, 10-15%	

HOLE NUMBER: MN56-01

## DRILL HOLE RECORD

DATE: 01/28/1993

FROM TO	ROCK TYPE	TEXTURE AND STRUCTURE	ANGLE TO CA	ALTERATION	MINERALIZATION	REMARKS
		<ul style="list-style-type: none"> <li>-unit is very hard and weakly magnetic.</li> <li>-sharp lower contact at 40°/CA.</li> <li>-from 373.81-374.45m, core is broken and the bedding is at 30°/CA.</li> <li>-bedding is contorted and fractured.</li> <li>-rare lapilli sized felsic fragments.</li> </ul>		-moderate sericitization.	<ul style="list-style-type: none"> <li>pyrrhotite and trace chalcopyrite.</li> <li>-sulphides are semi massive and fracture controlled.</li> <li>-373.04-373.25m, sulphide bed containing 40% pyrite, 40% pyrrhotite and 20% wallrock fragments.</li> <li>-upper contact at 35°/CA lower contact at 70°/CA.</li> <li>-373.42-373.82m, sulphide bed containing 40% pyrrhotite, 40% pyrite and 20% wallrock fragments.</li> <li>-upper contact at 55°/CA.</li> <li>-irregular lower contact.</li> <li>-373.81-374.46m, 1% pyrrhotite present along fractures and bedding planes.</li> <li>-374.46-376.56m, area contains 50% pyrite, 30% pyrrhotite and 20% wallrock fragments.</li> <li>-last 60cm of interval contains 40-50% graphitic argillite.</li> <li>-379.34-379.57m, 40% pyrrhotite, 50% graphitic argillite.</li> </ul>	
379.59 TO 407.00	MASSIVE MAFIC VOLCANIC «2m(Cb,Ch)»	<ul style="list-style-type: none"> <li>-medium grained.</li> <li>-medium green-white.</li> <li>-massive unit.</li> <li>-moderate foliation at 50°/CA.</li> <li>-unit contains 1-2% chlorite flakes.</li> <li>-unit is weakly fractured at 25-30°/CA (crosscutting foliation).</li> </ul>		-moderate carbonatization and chloritization.		
407.00 TO 407.00	E.O.H.					

HOLE NUMBER: MN56-01

DRILL HOLE RECORD

LOGGED BY: J. AULTMAN

PAGE: 10

HOLE NUMBER : MN56-01

## ASSAYS SHEET

DATE: 28/01/1993

Sample	From (M)	To (M)	Leng. (M)	Cu ppm	Zn ppm	Au ppb	Ag ppm	Pb ppm	Ni ppm
AN06993	114.55	115.55	1.00	80	166	0	0.2	0	18
AN06994	115.55	116.20	0.65	500	103	10	0.7	0	17
AN06995	116.20	117.40	1.20	280	108	9	0.5	0	27
AN06996	117.40	118.37	0.97	63	77	9	0.4	0	19
AN06997	118.37	118.67	0.30	130	87	5	0.4	0	25
AN06998	118.67	119.67	1.00	27	51	5	0.3	2	30
AN06999	119.67	120.75	1.08	34	56	5	0.3	0	38
AN07000	120.75	122.40	1.65	900	96	92	1.4	0	15
AN05683	122.40	123.40	1.00	170	109	9	0.4	1	16
AN06886	338.35	339.85	1.50	26	22	17	0.0	0	15
AN06887	339.85	340.95	1.10	24	175	0	0.0	25	7
AN06888	340.95	341.45	0.50	16	65	0	0.2	38	2
AN06889	341.45	343.95	2.50	19	50	0	0.2	0	6
AN06890	343.95	345.45	1.50	12	92	7	0.2	0	0
AN06891	345.45	346.50	1.05	18	76	8	0.3	9	10
AN06892	346.50	347.82	1.32	17	129	11	0.1	3	18
AN06893	347.82	349.32	1.50	37	340	11	0.5	3	25
AN06894	349.32	350.82	1.50	31	168	40	0.4	6	31
AN06895	350.82	352.32	1.50	21	240	36	0.4	6	13
AN06896	352.32	353.82	1.50	32	180	40	0.4	6	12
AN06897	353.82	355.32	1.50	33	220	33	0.5	5	31
AN06898	355.32	356.82	1.50	27	208	66	0.3	1	36
AN06899	356.82	358.32	1.50	25	164	38	0.4	1	38
AN06900	358.32	359.82	1.50	55	166	24	0.5	2	56
AN06002	359.82	360.70	0.88	90	150	16	0.6	2	71
AN06003	360.70	362.00	1.30	33	122	10	0.2	0	19
AN06004	362.00	363.19	1.19	29	148	0	0.1	0	10
AN06005	363.19	363.65	0.46	90	1120	40	0.3	15	166
AN06006	363.65	365.00	1.35	60	108	12	0.1	0	35
AN06007	365.00	365.75	0.75	71	129	8	0.2	2	29
AN06008	365.75	367.25	1.50	117	105	6	0.1	0	13
AN06009	367.25	368.97	1.72	10	47	5	0.1	0	11
AN06010	368.97	369.47	0.50	220	390	0	0.1	5	100
AVE.	369.47	371.48	2.01	315	2673	20	0.2	30	104
AN06011	369.47	371.00	1.53	350	2520	20	0.2	29	108
AN06012	371.00	371.48	0.48	202	3160	20	0.2	32	91
AN06013	371.48	372.47	0.99	140	730	6	0.2	27	130
AN06014	372.47	373.03	0.56	176	270	0	0.3	0	39
AN06015	373.03	373.25	0.22	106	252	0	0.5	0	111
AN06016	373.25	373.81	0.56	210	380	0	1.1	14	105
AN06017	373.81	374.46	0.65	113	110	12	0.2	0	22
AN06018	374.46	375.46	1.00	188	340	6	0.9	18	70
AN06019	375.46	376.56	1.10	182	1240	48	0.9	30	92
AN06020	376.56	378.06	1.50	85	127	6	0.0	0	20
AN06022	378.06	379.59	1.53	112	40	8	0.0	0	20
AN06023	379.59	381.09	1.50						

HOLE NUMBER : MN56-01

ASSAYS SHEET

PAGE: 11

HOLE NUMBER : MN56-01

## ASSAYS SHEET

DATE: 28/01/1993

Sample	From (M)	To (M)	Leng. (M)	Cu ppm	Zn ppm	Au ppb	Ag ppm	Pb ppm	Ni ppm									
AN06993	114.55	115.55	1.00	80	166	0	0.2	0	18									
AN06994	115.55	116.20	0.65	500	103	10	0.7	0	17									
AN06995	116.20	117.40	1.20	280	108	9	0.5	0	27									
AN06996	117.40	118.37	0.97	63	77	9	0.4	0	19									
AN06997	118.37	118.67	0.30	130	87	5	0.4	0	25									
AN06998	118.67	119.67	1.00	27	51	5	0.3	2	30									
AN06999	119.67	120.75	1.08	34	56	5	0.3	0	38									
AN07000	120.75	122.40	1.65	900	96	92	1.4	0	15									
AN05683	122.40	123.40	1.00	170	109	9	0.4	1	16									
AN06886	338.35	339.85	1.50	26	22	17	0.0	0	15									
AN06887	339.85	340.95	1.10	24	175	0	0.0	25	7									
AN06888	340.95	341.45	0.50	16	65	0	0.2	38	2									
AN06889	341.45	343.95	2.50	19	50	0	0.2	0	6									
AN06890	343.95	345.45	1.50	12	92	7	0.2	0	0									
AN06891	345.45	346.50	1.05	18	76	8	0.3	9	10									
AN06892	346.50	347.82	1.32	17	129	11	0.1	3	18									
AN06893	347.82	349.32	1.50	37	340	11	0.5	3	25									
AN06894	349.32	350.82	1.50	31	168	40	0.4	6	31									
AN06895	350.82	352.32	1.50	21	240	36	0.4	6	13									
AN06896	352.32	353.82	1.50	32	180	40	0.4	6	12									
AN06897	353.82	355.32	1.50	33	220	33	0.5	5	31									
AN06898	355.32	356.82	1.50	27	208	66	0.3	1	36									
AN06899	356.82	358.32	1.50	25	164	38	0.4	1	38									
AN06900	358.32	359.82	1.50	55	166	24	0.5	2	56									
AN06002	359.82	360.70	0.88	90	150	16	0.6	2	71									
AN06003	360.70	362.00	1.30	33	122	10	0.2	0	19									
AN06004	362.00	363.19	1.19	29	148	0	0.1	0	10									
AN06005	363.19	363.65	0.46	90	1120	40	0.3	15	166									
AN06006	363.65	365.00	1.35	60	108	12	0.1	0	35									
AN06007	365.00	365.75	0.75	71	129	8	0.2	2	29									
AN06008	365.75	367.25	1.50	117	105	6	0.1	0	13									
AN06009	367.25	368.97	1.72	10	47	5	0.1	0	11									
AN06010	368.97	369.47	0.50	220	390	0	0.1	5	100									
AVE.	369.47	371.48	2.01	315	2673	20	0.2	30	104	0	0	0	0	0	0	0	0	0
AN06011	369.47	371.00	1.53	350	2520	20	0.2	29	108									
AN06012	371.00	371.48	0.48	202	3160	20	0.2	32	91									
AN06013	371.48	372.47	0.99	140	730	6	0.2	27	130									
AN06014	372.47	373.03	0.56	176	270	0	0.3	0	39									
AN06015	373.03	373.25	0.22	106	252	0	0.5	0	111									
AN06016	373.25	373.81	0.56	210	380	0	1.1	14	105									
AN06017	373.81	374.46	0.65	113	110	12	0.2	0	22									
AN06018	374.46	375.46	1.00	188	340	6	0.9	18	70									
AN06019	375.46	376.56	1.10	182	1240	48	0.9	30	92									
AN06020	376.56	378.06	1.50	85	127	6	0.0	0	20									
AN06022	378.06	379.59	1.53	112	40	8	0.0	0	20									

HOLE NUMBER : MN56-01

## ASSAYS SHEET

PAGE: 3

HOLE NUMBER : MN56-01

## GEOCHEMICAL ASSAY

DATE: 28/01/1993

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	RB PPM	SR PPM	CO2 %	CU PPM	ZN PPM	NI PPM	CR PPM	FIELD NAME	CHEM ID	ALUM
AN03218	38.00	41.00	3.00	50.00	13.83	9.84	6.02	2.32	0.48	15.91	1.33	0.16	0.23	0.04	0.75	100.91	30	102	130				180	115	80		2v	109	
AN03219	71.00	74.00	3.00	71.50	14.73	3.48	2.04	1.35	2.44	2.35	0.31	0.12	0.05	0.03	2.20	100.61	8	118	190				30	60	<10		4PR	203	
AN03220	98.00	101.00	3.00	66.54	12.62	3.64	2.58	1.26	0.98	7.98	0.25	0.08	0.36	0.04	1.36	97.67	8	86	100				25	45	<10		2w	215	
AN03221	128.00	131.00	3.00	64.52	13.55	3.47	2.65	0.30	0.50	9.38	0.27	0.10	0.44	0.02	2.69	97.88	12	152	40				<5	70	<10		2w*	317	
AN03222	146.00	149.00	3.00	72.09	16.09	2.36	1.46	1.85	1.48	1.32	0.33	0.12	0.04	0.05	1.60	98.79	4	142	150				5	40	<10		4PR*	283	
AN03223	158.00	161.00	3.00	74.76	15.24	3.94	0.80	1.74	1.98	1.17	0.31	0.10	0.04	0.04	0.47	100.61	10	156	210				10	65	<10		4PR	199	
AN03224	173.00	176.00	3.00	69.28	16.53	3.71	1.96	0.33	0.30	2.72	0.34	0.12	0.10	0.01	2.22	97.65	6	164	40				<5	55	10		4PR*	381	
AN03225	209.00	212.00	3.00	57.68	14.24	4.34	8.12	3.57	0.10	8.26	0.63	0.26	0.11	0.08	3.49	100.90	14	104	60				60	85	120		2u	178	
AN03226	230.00	233.00	3.00	72.65	15.73	2.92	1.61	0.52	0.62	1.38	0.28	0.12	0.05	0.02	1.88	97.75	6	122	60				10	10	320		4PR*	387	
AN03227	262.00	265.00	3.00	74.23	17.33	1.64	1.14	0.57	2.14	1.28	0.29	0.10	0.02	0.03	1.91	100.68	12	118	240				30	15	20		4PR*	398	
AN03228	272.00	275.00	3.00	47.54	13.08	9.49	6.75	2.47	0.10	9.06	0.83	0.32	0.21	0.04	8.03	97.92	20	110	60				70	45	50		2u	108	
AN03229	278.00	281.00	3.00	74.50	14.23	2.38	1.70	0.35	1.30	0.95	0.28	0.08	0.03	0.02	2.00	97.82	4	92	190				<5	10	<10		4PR*	353	
AN03230	287.00	290.00	3.00	72.55	14.31	1.84	1.34	2.09	2.42	0.88	0.28	0.08	0.05	0.05	1.93	97.82	6	92	290				90	30	<10		4PR	225	
AN03231	299.00	302.00	3.00	73.27	13.71	1.92	1.06	0.83	2.66	1.94	0.28	0.08	0.08	0.04	1.77	97.63	2	98	180				5	20	<10		4PR	253	
AN03232	308.00	311.00	3.00	55.29	10.30	4.90	2.62	0.15	0.52	17.31	0.22	0.06	1.07	0.03	5.28	97.75	6	98	60				10	40	<10		2v	185	
AN03233	335.00	338.00	3.00	69.32	14.84	3.45	1.67	0.31	2.02	2.33	0.28	0.08	0.09	0.01	3.27	97.66	6	142	190				20	25	<10		4PR	257	
AN03234	341.00	344.00	3.00	66.12	10.53	2.12	2.90	0.23	0.36	11.21	0.19	0.06	0.39	0.03	3.81	97.96	8	110	40				<5	40	<10		2v*	389	
AN03235	372.00	375.00	3.00	79.29	0.70	2.08	2.23	0.03	<0.02	14.46	0.02	0.04	0.37	0.04	1.17	100.45	4	14	10				40	85	<10		4PR	33	
AN03236	392.00	395.00	3.00	47.60	14.82	8.36	8.67	1.41	0.06	9.33	0.40	0.06	0.18	0.06	7.63	98.57	10	28	80				50	35	180		2u	151	
AN03237	404.00	407.00	3.00	52.12	18.94	7.67	3.54	2.75	0.86	6.79	0.48	0.08	0.13	0.09	4.55	97.99	10	42	630				50	45	80		2x	168	

HOLE NUMBER : MN56-01

## GEOCHEMICAL ASSAY

PAGE: 22

HOLE NUMBER : MN56-01

## GEOCHEMICAL ASSAYS

DATE: 28/01/1993

Sample	From (M)	To (M)	Leng. (M)	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	SM PPM	EU PPM	GD PPM	
AN03218	38.00	41.00	3.00			50		1500																						
AN03219	71.00	74.00	3.00			<5		200																						
AN03220	98.00	101.00	3.00			10		500																						
AN03221	128.00	131.00	3.00			<5		300																						
AN03222	146.00	149.00	3.00			<5		100																						
AN03223	158.00	161.00	3.00			<5		600																						
AN03224	173.00	176.00	3.00			<5		400																						
AN03225	209.00	212.00	3.00			30		400																						
AN03226	230.00	233.00	3.00			<5		200																						
AN03227	262.00	265.00	3.00			5		2300																						
AN03228	272.00	275.00	3.00			35		400																						
AN03229	278.00	281.00	3.00			<5		100																						
AN03230	287.00	290.00	3.00			5		200																						
AN03231	299.00	302.00	3.00			<5		200																						
AN03232	308.00	311.00	3.00			5		1600																						
AN03233	335.00	338.00	3.00			5		300																						
AN03234	341.00	344.00	3.00			<5		2000																						
AN03235	372.00	375.00	3.00			5		15400																						
AN03236	392.00	395.00	3.00			55		300																						
AN03237	404.00	407.00	3.00			40		300																						

HOLE NUMBER: MN56-01

GEOCHEMICAL ASSAYS

PAGE: 23



HOLE NUMBER : MN56-01

## GEOCHEMICAL ASSAYS

DATE: 28/01/1993

Sample	From (M)	To (M)	Leng. (M)	DY PPM	ER PPM	LU PPM	OS PPB	IR PPB	RU PPB	RH PPB	PT PPB	PD PPB	LI PPM	BE PPM	MN PPM	GA PPM	GE PPM	IN PPM	TL PPM	SC PPM	BR PPM	YB PPM	NB PPM
AN03218	38.00	41.00	3.00																				
AN03219	71.00	74.00	3.00																				
AN03220	98.00	101.00	3.00																				
AN03221	128.00	131.00	3.00																				
AN03222	146.00	149.00	3.00																				
AN03223	158.00	161.00	3.00																				
AN03224	173.00	176.00	3.00																				
AN03225	209.00	212.00	3.00																				
AN03226	230.00	233.00	3.00																				
AN03227	262.00	265.00	3.00																				
AN03228	272.00	275.00	3.00																				
AN03229	278.00	281.00	3.00																				
AN03230	287.00	290.00	3.00																				
AN03231	299.00	302.00	3.00																				
AN03232	308.00	311.00	3.00																				
AN03233	335.00	338.00	3.00																				
AN03234	341.00	344.00	3.00																				
AN03235	372.00	375.00	3.00																				
AN03236	392.00	395.00	3.00																				
AN03237	404.00	407.00	3.00																				

HOLE NUMBER: MN56-01

GEOCHEMICAL ASSAYS

PAGE: 24



HOLE NUMBER: MN66-01

## DRILL HOLE RECORD

DATE: 01/28/1993

FROM TO	ROCK TYPE	TEXTURE AND STRUCTURE	ANGLE TO CA	ALTERATION	MINERALIZATION	REMARKS
0.00 TO 3.50	OVERBURDEN «{ob}»					
3.50 TO 14.65	FELSIC TUFF «4t(Se)»	-buff-grey. -fine grained. -bedded unit, bedding at 40-45°/CA, average 40°/CA. -trace garnets. -moderate foliation parallel to bedding. -gradational lower contact. -rare lapilli sized fragments.		-moderate pervasive sericitization. -weak pervasive chloritization.	-trace pyrite.	
14.65 TO 33.10	MAFIC TO INTER-MEDIATE TUFF «2/3t,» «(Ch,Se)»	-fine grained. -light to dark grey-green with green bands. -bedded unit, bedding at 40°/CA. -sharp lower contact at 45°/CA. -5% garnets, in mafic bands, 1mm in diameter. -some areas are intermediate in composition, 22.00-26.00m, 28.50-29.50m. -from 27.00-28.70m and 29.50-30.00m, areas are highly contorted and flooded by carbonate.		-weak to moderate pervasive sericitization. -weak carbonatization in more mafic sections. -moderate chloritization.	-trace pyrite.	
33.10 TO 63.00	FELSIC TUFF «4t(Se)»	-fine grained. -buff-grey. -bedded unit, bedding at 35-40°/CA, average 40°. -moderate hardness. -weak to moderate foliation, parallel to bedding. -rare lapilli. -sharp lower contact at 40°/CA.		-moderate sericitization (pervasive). -weak patchy chloritization. -patchy silicification.	-trace pyrite.	
63.00 TO 68.10	MAFIC TO INTER-MEDIATE TUFF «2/3tCh,» «(Se)»	-banded dark green and white. -fine grained. -bedded unit, bedding at 35-40°/CA, average of 40°/CA. -sharp lower contact at 30°/CA. -unit contains 25-30% felsic beds. -mafic beds contain 1-3% garnets (1mm in size). -last 50-60cm of unit contains 1-3% quartz eyes (3-5mm in size).		-moderate to strong chloritization. -weak to moderate sericitization. -patchy silicification (strong in last 0.3m of unit).	-trace pyrite.	

HOLE NUMBER: MN66-01

DRILL HOLE RECORD

LOGGED BY: J. AULTMAN

PAGE: 2

HOLE NUMBER: MN66-01

## DRILL HOLE RECORD

DATE: 01/28/1993

FROM TO	ROCK TYPE	TEXTURE AND STRUCTURE	ANGLE TO CA	ALTERATION	MINERALIZATION	REMARKS
68.10 TO 70.40	MAFIC DYKE «7b»	-dark green. -medium grained.				
70.40 TO 74.70	INTER- MEDIATE TUFF «3t(Se)»	-massive unit, hard and weakly magnetic. -sharp lower contact at 20°/CA.  -fine grained. -medium grey.  -bedded unit, bedding at 35-40°/CA, average 40°/CA. -sharp lower contact at 40°/CA. -unit contains 10-15% mafic beds. -mafic beds contain 1-3% garnets. -rare felsic lapilli.		-weak chloritization.   -moderate sericitization. -patchy silicification.	-trace pyrite.	
74.70 TO 75.15	MAFIC TUFF «2tCh»	-dark green. -fine grained.  -unit is weakly bedded at 35-40°/CA. -irregular carbonate filled fractures present. -sharp lower contact at 35°/CA.		-strong chloritization. -weak carbonatization.	-trace pyrite and hematite.	
75.15 TO 75.70	MAFIC DYKE «7b(Si)»	-medium grey-green. -medium grained.  -massive unit. -sharp lower contact at 35°/CA. -weakly magnetic. -hard.		-moderate silicification.		
75.70 TO 76.38	MAFIC TUFF «2tCh»	-dark green. -fine grained.  -similar to unit between 74.70-75.15m. -sharp irregular lower contact.		-moderate to strong chloritization.		
76.38 TO 81.20	FELSIC TUFF «4t(Se)»	-fine grained. -buff-yellow-grey.  -bedded unit, similar to unit between 33.10-63.00m. -bedding at 45°/CA. -sharp lower contact at 50°/CA.				

HOLE NUMBER: MN66-01

DRILL HOLE RECORD

LOGGED BY: J. AULTMAN

PAGE: 3

HOLE NUMBER: MN66-01

## DRILL HOLE RECORD

DATE: 01/28/1993

FROM TO	ROCK TYPE	TEXTURE AND STRUCTURE	ANGLE TO CA	ALTERATION	MINERALIZATION	REMARKS
81.20 TO 82.08	MAFIC DYKE «7b»	-medium grained. -medium green.  -massive unit, similar to unit between 68.10-70.40m. -sharp lower contact at 45°/CA.				
82.08 TO 110.75	FELSIC TUFF «4t(SeCh)»	-medium grey. -fine grained.  -bedded unit, bedding at 45°/CA. -unit contains rare lapilli. -unit is moderately foliated parallel to bedding. -mafic rich areas between 84.00-89.00m and 101.00-103.00m. -mafic areas contain 1-2% garnets (1-2mm). -unit is moderately hard. -sharp lower contact at 50°/CA.		-moderate sericitization. -weak to moderate pervasive chloritization (increasing in strength downhole). -sericitization increases in strength in the last 5-6m of hole.		
110.75 TO 111.60	MAFIC DYKE «7b(Si)»	-medium grained. -medium grey-green.  -massive unit. -broken lower contact. -fault gouge from 111.55-111.58m, at 80°/CA. -unit weakly magnetic.		-weak to moderate silicification.		
111.60 TO 113.76	FELSIC TUFF/ FAULT AREA «4tSe»	-yellow-grey-green. -fine grained.  -unit very similar to unit between 82.08-110.75m. -fault area, highly broken core. -missing core from 113.56-113.76m. -upper part of unit is insitu brecciated. -irregular lower contact.		-strong sericitization.		
113.76 TO 116.60	MAFIC DYKE «7b»	-medium grained. -medium grey-green.  -similar to unit between 75.15-75.70m. -sharp lower contact at 45°/CA.			-trace pyrite.	

HOLE NUMBER: MN66-01

DRILL HOLE RECORD

LOGGED BY: J. AULTMAN

PAGE: 4

HOLE NUMBER: MN66-01

## DRILL HOLE RECORD

DATE: 01/28/1993

FROM TO	ROCK TYPE	TEXTURE AND STRUCTURE	ANGLE TO CA	ALTERATION	MINERALIZATION	REMARKS
116.60 TO 132.05	FELSIC TUFF «4t(Se,Ch)»	-fine grained. -medium grey-green.  -bedded unit. -bedding at 45°/CA. -unit is similar to unit between 82.08-110.75m. -sharp lower contact at 45°/CA.		-moderate sericitization. -weak to moderate pervasive chloritization. -patchy silicification.	-trace pyrite.	
132.05 TO 164.80	MAFIC TO INTER-MEDIATE TUFF «2tSe,Ch»	-banded grey to dark green. -fine grained.  -bedded unit, bedding at 40-50°/CA, average of 45°/CA. -unit is soft and weakly magnetic in the more mafic areas. -mafic bands contain 1-3% garnets (1-2mm in size). -unit has a gradational lower contact and becomes more felsic in composition with depth.		-moderate to strong pervasive sericitization. -moderate to strong chloritization in the mafic bands.	-trace pyrite.	
164.80 TO 170.40	FELSIC TUFF «4tSe»	-medium grey. -fine grained.  -bedded unit, bedding at 45°/CA. -sharp lower contact at 25°/CA. -from 169.35-169.60m, contains a "Z" type fold, bedding after fold is also at 45°/CA. -165.9m, 2mm wide fault gouge at 40°/CA. -moderate hardness.		-strong pervasive sericitization. -weak pervasive chloritization.		
170.40 TO 171.65	MAFIC DYKE «7a(Si)»	-grey-green. -fine grained.  -massive unit, hard. -slightly magnetic. -irregular quartz filled fractures. -sharp irregular lower contact.		-moderate silicification.		
171.65 TO 213.53	FELSIC TUFF «4tSe»	-light grey. -fine grained.  -bedded unit, bedding between 40-45°/CA. -average 40°/CA. -sharp lower contact at 20°/CA. -mafic dykes between 176.35-177.00m, contacts at 20°/CA and 180.95-181.10m, contacts at 30°/CA.		-strong pervasive sericitization. -weak chloritization.	-trace pyrite.	

HOLE NUMBER: MN66-01

DRILL HOLE RECORD

LOGGED BY: J. AULTMAN

PAGE: 5

FROM TO	ROCK TYPE	TEXTURE AND STRUCTURE	ANGLE TO CA	ALTERATION	MINERALIZATION	REMARKS
213.53 TO 214.74	QUARTZ FELDSPAR PORPHYRY DYKE «9d»	-creamy grey-yellow. -coarse grained.  -massive unit. -sharp lower contact at 25°/CA. -unit contains 10-15% quartz eyes (1mm) and 60-70% feldspar phenocrysts (1-4mm, average 1-2mm).		-strong sericitization. -moderate silicification.		
214.74 TO 226.95	FELSIC TUFF «4t5e»	-buff-grey-yellow. -fine grained.  -similar unit to the one between 171.65-213.53m. -gradational lower contact.		-strong to very strong sericitization. -weak chloritization.		
226.95 TO 252.14	MAFIC TO INTER-MEDIATE TUFF «2tCh(Se)»	-medium to dark grey-green. -fine grained.  -bedded unit, bedding at 40-45°/CA, average 40°/CA. -patchy moderate to strong magnetism. -unit contains 2-3% garnets (1-3mm in size, average 1-2mm). -sharp lower contact at 45°/CA. -unit contains rare lapilli sized felsic fragments. -area contains 75% felsic beds.		-moderate sericitization. -moderate to strong chloritization. -patchy silicification.	-unit contains 2-3% pyrite. -3-5% pyrrhotite. -trace to 0.5% sphalerite. -1-3% magnetite. -sulphides are fracture controlled and parallel to bedding. -from 229.52-229.62m, 2% sphalerite and 5% pyrite. -sulphides are fracture controlled. -242.85-243.26m, 25-30% pyrrhotite, 5% pyrite. -upper contact at 35°/CA, irregular lower contact. -243.44-243.60m, 60% pyrrhotite, 30% pyrite and 10% wallrock fragments. -pyrite is coarser grained than the pyrrhotite. -last 1-2m of unit contains 10-15% pyrite and pyrrhotite.	
252.14 TO 257.94	SULPHIDE IRON FORMATION «5s»	-brassy brown-yellow. -fine grained.  -semi-massive to massive. -unit appears to be weakly bedded at 40-50°/CA, average 40°/CA. -unit contains 80% sulphides and 20% silicified		-moderate silicification.	-60-70% pyrrhotite, 30-40% pyrite. -pyrite is coarse grained.	

HOLE NUMBER: MN66-01

## DRILL HOLE RECORD

DATE: 01/28/1993

FROM TO	ROCK TYPE	TEXTURE AND STRUCTURE	ANGLE TO CA	ALTERATION	MINERALIZATION	REMARKS
257.94 TO 260.60	FELSIC FRAGMENTAL «4fSi(Ch)»	wallrock fragments and chert. -fragments are subrounded. -sharp lower contact at 50°/CA.  -dark grey. -fine grained with fragments.  -unit is weakly bedded at 40-50°/CA. -unit contains 40-50% cherty, felsic fragments. -fragments are subrounded and between 0.5-6cm in diameter, average 1cm. -fragments become smaller downhole. -unit is hard and strongly magnetic. -sharp lower contact at 45°/CA.		-moderate chloritization. -moderate to strong silicification.	-3-5% pyrrhotite (found in the matrix and around the fragments). -1% pyrite, found in beds.	
260.60 TO 261.03	MAFIC DYKE «7aCh»	-dark green. -fine grained.  -massive unit, moderately magnetic, soft. -sharp lower contact at 50°/CA. -10% garnets, 2-3mm in size.		-strong chloritization.		
261.03 TO 265.60	INTER-MEDIATE TO MAFIC TUFF «2tSe(Ch)»	-fine grained. -medium grey-green.  -bedded unit, bedding at 50°/CA. -unit becomes more mafic downhole. -unit is weakly magnetic (in more chloritic areas). -unit contains 10-15% garnets (1mm in size). -majority of garnets in last 2-3m of unit. -sharp lower contact at 50°/CA.		-moderate strong sericitization. -weak to moderate chloritization.	-trace to 1% pyrite. -1% pyrrhotite. -from 264.88-265.13m, trace chalcopyrite, 3% pyrrhotite.	
265.60 TO 280.00	MAFIC TO INTER-MEDIATE VOLCANIC OR TUFF «2m(t)»	-light grey-green. -fine to medium grained.  -massive unit, becomes weakly bedded near end of unit. -moderate foliation at 50°/CA. -gradational lower contact. -unit is moderately hard and very slightly magnetic. -unit is slightly fractured. -fractures are irregular and filled with quartz and carbonate.		-weakly bleached. -weak carbonatization.	-trace pyrite.	

HOLE NUMBER: MN66-01

DRILL HOLE RECORD

LOGGED BY: J. AULTMAN

PAGE: 7



HOLE NUMBER: MN66-01

## DRILL HOLE RECORD

DATE: 01/28/1993

FROM TO	ROCK TYPE	TEXTURE AND STRUCTURE	ANGLE TO CA	ALTERATION	MINERALIZATION	REMARKS
280.00 TO 306.00	INTER-MEDIATE TUFF «3t(Se,Ch)»	-fine grained. -light grey-green.  -bedded unit, bedding at 40-50°/CA, average 50°/CA. -40°/CA near bottom of unit. -rare lapilli sized mafic fragments. -unit is soft, easy to scratch. -sharp lower contact at 50°/CA.		-moderate pervasive sericitization and chloritization. -286.5-290.00m, moderate to strong chloritization.	-305.75-305.90m, trace to 0.5% fracture controlled sphalerite.	
306.00 TO 339.28	INTER-MEDIATE TO FELSIC TUFF «4tCh(Se)»	-medium grey. -fine grained.  -bedded unit, bedding at 40-45°/CA, average 40°/CA. -unit has a sharp lower contact at 40°/CA. -moderate hardness. -very slightly magnetic. -unit has irregular carbonate filled fractures. -feldspar porphyry dykes between 315.95-316.29m, 319.51-320.22m, 323.27-323.55m, 338.23-338.88m. -these dykes are similar to previous felsic dykes and all have 50°/CA contacts. -rare lapilli sized subrounded fragments (felsic ?), found parallel to bedding.		-moderate to strong pervasive chloritization. -strong chloritization between 306.00-313.00m. -patchy moderate silicification. -weak to moderate sericitization.	-trace pyrite throughout. -306.00-308.10m, 10-15% pyrrhotite, trace pyrite. -sulphides are fracture controlled and parallel to bedding.	
339.28 TO 340.55	OXIDE FACIES IRON FORMATION «5rCh(Si)»	-fine grained. -medium to dark grey.  -bedded unit, bedding at 40-50°/CA, average 40°/CA. -unit contains 85% iron formation. -15% of wallrock fragments are strongly chloritized. -unit is moderately hard and strongly magnetic. -unit contains 10% cherty beds. -sharp lower contact at 40°/CA.		-moderate silicification. -strong chloritization.	-10% magnetite. -339.28-340.00m, 5% pyrrhotite, trace to 1% chalcopyrite. -sulphides are present along fractures and bedding planes.	
340.55 TO 345.70	MAFIC TUFF «2t(ChSi)»	-dark green. -fine grained.  -weakly bedded unit at 40°/CA. -sharp lower contact at 35°/CA. -unit is weakly to moderately magnetic. -moderately hard.		-moderate chloritization and silicification.	-trace pyrite and pyrrhotite.	

HOLE NUMBER: MN66-01

DRILL HOLE RECORD

LOGGED BY: J. AULTMAN

PAGE: 8

HOLE NUMBER: MN66-01

## DRILL HOLE RECORD

DATE: 01/28/1993

FROM TO	ROCK TYPE	TEXTURE AND STRUCTURE	ANGLE TO CA	ALTERATION	MINERALIZATION	REMARKS
345.70 TO 348.25	OXIDE FACIES IRON FORMATION «5rCh(Si)»	-light to medium grey. -fine grained. -similar to unit between 339.28-340.55m. -unit contains 70% iron formation. -sharp lower contact at 30°/CA.				-trace pyrrhotite. -10-15% magnetite.
348.25 TO 348.90	FELSIC TUFF «4tCh(Se)»	-grey. -fine grained. -similar to unit between 306.00-339.28m. -sharp lower contact at 50°/CA.				
348.90 TO 350.80	FELDSPAR PORPHYRY DYKE «9D»	-medium grey. -medium to coarse grained. -massive unit with 60% feldspar phenocrysts. -phenocrysts are 1mm in size. -unit contains 1% biotite. -sharp lower contact at 50°/CA.		-weak sericitization.		
350.80 TO 353.67	FELSIC TUFF «4t(ChSi)»	-medium grey. -fine grained. -bedded unit, similar to unit between 306.00-339.28m. -bedding at 45°/CA. -sharp lower contact at 45°/CA.		-weak to moderate pervasive chloritization. -patchy moderate silicification.		-trace pyrite.
353.67 TO 355.20	OXIDE FACIES IRON FORMATION «5rCh(Si)»	-similar to unit between 339.28-340.55m. -sharp lower contact. -contains 90-95% iron formation. -bedding at 50°/CA.				-no visible sulphides.
355.20 TO 355.74	FELDSPAR PORPHYRY DYKE «9D»	-similar to unit between 348.90-350.80m. -sharp lower contact at 55°/CA.				
355.74 TO 357.19	OXIDE FACIES IRON FORMATION «5rCh(Si)»	-similar to unit between 339.28-340.55m. -bedding at 40°/CA. -sharp lower contact at 40°/CA.				-no sulphides.

HOLE NUMBER: MN66-01

DRILL HOLE RECORD

LOGGED BY: J. AULTMAN

PAGE: 9

HOLE NUMBER: MN66-01

## DRILL HOLE RECORD

DATE: 01/28/1993

FROM TO	ROCK TYPE	TEXTURE AND STRUCTURE	ANGLE TO CA	ALTERATION	MINERALIZATION	REMARKS
357.19 TO 358.00	QUARTZ FELDSPAR PORPHYRY DYKE «9d(Se)»	-spotted grey and white. -fine grained matrix with coarse phenocrysts.  -massive unit. -contains 30% feldspar phenocrysts (1-4mm in size) and 5% quartz eyes (1-2mm in size). -hard unit.		-weak sericitization.		
358.00 TO 358.00	E.O.H.					

HOLE NUMBER: MN66-01

## DRILL HOLE RECORD

LOGGED BY: J. AULTMAN

PAGE: 10

HOLE NUMBER : MN66-01

## ASSAYS SHEET

DATE: 28/01/1993

Sample	From (M)	To (M)	Leng. (M)	Cu ppm	Zn ppm	Au ppb	Ag ppm	Pb ppm	Ni ppm
AN06101	225.45	226.95	1.50	27	139	125	0.2	39	32
AN06102	226.95	227.90	0.95	37	336	51	0.4	89	85
AN06103	227.90	229.40	1.50	17	210	13	0.1	56	17
AN06104	229.40	229.70	0.30	35	7535	26	0.5	1849	24
AN06105	229.70	231.20	1.50	29	241	10	0.2	26	18
AN06106	231.20	232.70	1.50	18	326	44	0.2	57	23
AN06107	232.70	234.20	1.50	17	269	6	0.2	28	18
AN06108	234.20	235.70	1.50	36	61	8	0.4	2	24
AN06109	235.70	237.20	1.50	35	59	10	0.3	0	18
AN06110	237.20	238.70	1.50	17	43	5	0.2	0	20
AN06111	238.70	240.20	1.50	22	46	7	0.2	0	16
AN06112	240.20	241.70	1.50	37	51	0	0.1	0	17
AN06113	241.70	242.80	1.10	11	37	5	0.0	12	14
AN06114	242.80	243.35	0.55	220	46	101	1.1	0	131
AN06115	243.35	243.70	0.35	110	70	65	1.0	0	53
AN06116	243.70	245.20	1.50	28	71	9	0.4	0	29
AN06117	245.20	246.70	1.50	19	63	11	0.4	0	31
AN06118	246.70	248.20	1.50	22	148	0	0.5	13	36
AN06119	248.20	249.70	1.50	22	604	10	0.5	140	34
AN06120	249.70	251.14	1.44	26	132	14	0.5	1	29
AN06122	251.14	252.14	1.00	54	226	19	0.2	11	31
AN06123	252.14	253.00	0.86	50	186	82	0.6	1	41
AN06124	253.00	254.50	1.50	53	192	50	0.5	1	41
AN06125	254.50	256.00	1.50	54	225	93	0.4	2	43
AN06126	256.00	256.80	0.80	48	177	83	0.4	4	42
AN06127	256.80	257.94	1.14	72	204	44	0.5	6	44
AN06128	257.94	258.94	1.00	51	192	13	0.4	3	42
AN06129	258.94	259.94	1.00	26	83	0	0.3	0	24
AN06130	259.94	260.60	0.66	35	122	19	0.2	0	24
AN06131	260.60	261.03	0.43	46	259	0	0.1	0	15
AN06132	261.03	262.53	1.50	16	59	39	0.0	1	19
AN06133	262.53	264.03	1.50	33	61	5	0.1	0	23
AN06134	264.03	264.85	0.82	40	79	0	0.1	0	17
AN06135	264.85	265.15	0.30	163	460	0	0.4	0	50
AN06136	265.15	266.65	1.50	147	131	95	0.3	0	43
AN06137	304.20	305.70	1.50	22	26	39	0.0	0	22
AN06138	305.70	306.00	0.30	92	4000	9	0.4	794	52
AN06139	306.00	307.00	1.00	188	149	27	0.7	9	56
AN06140	307.00	308.10	1.10	357	230	0	0.2	6	53
AN06142	308.10	309.60	1.50	200	104	5	0.0	1	58
AN06143	337.00	338.20	1.20	139	91	0	0.0	0	147
AN06144	338.20	338.90	0.70	24	46	17	0.0	4	25
AN06145	338.90	339.28	0.38	38	107	0	0.1	0	65
AN06146	339.28	340.00	0.72	475	272	22	0.2	0	59
AN06147	340.00	340.55	0.55	156	74	28	0.0	0	15
AN06148	340.55	342.05	1.50	108	152	0	0.0	0	52
AN06149	342.05	343.55	1.50	94	112	0	0.1	0	52

HOLE NUMBER : MN66-01

ASSAYS SHEET

PAGE: 11

HOLE NUMBER : MN66-01

## ASSAYS SHEET

DATE: 28/01/1993

Sample	From (M)	To (M)	Leng. (M)	Cu ppm	Zn ppm	Au ppb	Ag ppm	Pb ppm	Ni ppm
AN06150	343.55	344.55	1.00	112	110	5	0.0	0	34
AN06151	344.55	345.70	1.15	90	89	0	0.0	0	41
AN06152	345.70	347.00	1.30	200	2320	24	0.1	0	122
AN06153	347.00	348.25	1.25	124	91	0	0.1	0	16
AN06154	348.25	348.90	0.65	183	102	16	0.1	0	104

HOLE NUMBER: MN66-01

ASSAYS SHEET

PAGE: 12

HOLE NUMBER : MN66-01

## GEOCHEMICAL ASSAY

DATE: 28/01/1993

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	RB PPM	SR PPM	CO2 %	CU PPM	ZN PPM	NI PPM	CR PPM	FIELD NAME	CHEM ID	ALUM
AN05901	8.00	11.00	3.00	70.65	15.25	3.77	2.33	0.53	0.88	4.33	0.34	0.14	0.16	0.04	2.44	100.85	8	138					10	25	20		4PR*	294	
AN05902	17.00	20.00	3.00	66.35	13.05	3.62	2.67	0.24	1.30	9.83	0.29	0.10	0.44	0.03	2.79	100.72	6	118					15	25	10		2w	253	
AN05903	22.00	25.00	3.00	65.44	15.22	5.04	2.86	0.64	1.36	6.13	0.32	0.12	0.24	0.04	2.88	100.28	6	152					15	30	10		2x	216	
AN05904	35.00	38.00	3.00	72.99	15.84	3.35	1.06	2.23	1.76	1.35	0.34	0.12	0.04	0.05	1.66	100.79	8	144					20	35	10		4PR	216	
AN05911	59.00	62.00	3.00	71.36	16.06	3.14	1.68	0.82	1.38	1.36	0.35	0.12	0.05	0.03	2.25	98.60	4	122					10	35	10		4PR*	301	
AN05912	71.00	74.00	3.00	68.95	13.75	5.05	2.80	0.34	1.40	5.06	0.28	0.10	0.20	0.05	2.54	100.52	6	110					15	10	<10		4PR	203	
AN05913	77.00	80.00	3.00	72.18	15.69	2.98	2.21	0.43	1.74	1.76	0.37	0.14	0.05	0.02	2.40	99.97	6	114					10	15	20		4PR*	305	
AN05914	92.00	95.00	3.00	71.36	15.39	4.17	2.00	0.53	1.30	2.78	0.32	0.10	0.10	0.05	2.35	100.47	6	110					10	15	20		4PR	257	
AN05915	127.00	130.00	3.00	70.21	14.40	3.85	2.11	0.48	2.24	3.96	0.31	0.10	0.14	0.04	2.78	100.61	6	106					35	15	10		4PR	219	
AN05905	133.00	135.00	2.00	64.35	12.84	4.72	3.40	0.57	0.50	9.15	0.33	0.12	0.50	0.03	4.02	100.53	10	100					15	25	20		2w	222	
AN05906	157.00	160.00	3.00	66.40	14.39	4.62	2.89	0.37	0.26	6.93	0.31	0.12	0.28	0.05	2.70	99.31	4	70					15	15	10		2x*	274	
AN05907	166.00	169.00	3.00	69.80	16.93	3.61	1.93	0.49	1.20	3.44	0.50	0.12	0.13	0.04	2.42	100.60	12	130					20	25	30		4PR*	319	
AN05908	178.00	181.00	3.00	74.19	16.28	2.56	0.54	1.53	2.12	1.03	0.36	0.14	0.03	0.04	1.96	100.77	10	148					10	25	10		4PR	262	
AN05909	208.00	211.00	3.00	73.69	13.97	4.03	2.17	0.19	0.40	1.73	0.28	0.10	0.08	0.03	2.85	99.49	4	102					25	15	10		4PR*	302	
AN05910	220.00	223.00	3.00	75.65	13.57	2.91	1.86	0.19	0.30	0.84	0.26	0.08	0.03	0.03	2.08	97.78	4	100					15	10	20		4PR*	399	
AN05916	271.00	274.00	3.00	54.31	18.79	8.36	4.60	0.48	1.26	8.09	0.52	0.10	0.21	0.08	2.49	99.28	12	38	350				95	60	70		2w	186	
AN05917	292.00	295.00	3.00	53.86	16.11	8.10	5.26	0.20	0.80	9.12	0.64	0.08	0.23	0.06	4.75	99.21	16	46	120				20	35	40		2w	177	
AN05918	316.00	319.00	3.00	63.90	16.51	6.31	1.14	0.65	1.40	6.52	1.45	0.16	0.17	0.06	2.54	100.81	28	96	180				110	50	70		3?	197	

HOLE NUMBER : MN66-01

## GEOCHEMICAL ASSAY

PAGE: 25

HOLE NUMBER : MN66-01

## GEOCHEMICAL ASSAYS

DATE: 28/01/1993

Sample	From (M)	To (M)	Leng. (M)	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	SM PPM	EU PPM	GD PPM	
AN05901	8.00	11.00	3.00			<5		500																						
AN05902	17.00	20.00	3.00			<5		300																						
AN05903	22.00	25.00	3.00			<5		<100																						
AN05904	35.00	38.00	3.00			<5		200																						
AN05911	59.00	62.00	3.00			<5		<100																						
AN05912	71.00	74.00	3.00			<5		400																						
AN05913	77.00	80.00	3.00			<5		700																						
AN05914	92.00	95.00	3.00			<5		200																						
AN05915	127.00	130.00	3.00			<5		300																						
AN05905	133.00	135.00	2.00			<5		600																						
AN05906	157.00	160.00	3.00			<5		300																						
AN05907	166.00	169.00	3.00			<5		200																						
AN05908	178.00	181.00	3.00			<5		200																						
AN05909	208.00	211.00	3.00			<5		300																						
AN05910	220.00	223.00	3.00			<5		400																						
AN05916	271.00	274.00	3.00			35		400																						
AN05917	292.00	295.00	3.00			30		300																						
AN05918	316.00	319.00	3.00			60		2500																						

HOLE NUMBER : MN66-01

## GEOCHEMICAL ASSAYS

PAGE: 26

HOLE NUMBER : MN66-01

## GEOCHEMICAL ASSAYS

DATE: 28/01/1993

Sample	From (M)	To (M)	Leng. (M)	DY PPM	ER PPM	LU PPM	OS PPB	IR PPB	RU PPB	RH PPB	PT PPB	PD PPB	LI PPM	BE PPM	MM PPM	GA PPM	GE PPM	IN PPM	TL PPM	SC PPM	BR PPM	YB PPM	NB PPM
AN05901	8.00	11.00	3.00																				
AN05902	17.00	20.00	3.00																				
AN05903	22.00	25.00	3.00																				
AN05904	35.00	38.00	3.00																				
AN05911	59.00	62.00	3.00																				
AN05912	71.00	74.00	3.00																				
AN05913	77.00	80.00	3.00																				
AN05914	92.00	95.00	3.00																				
AN05915	127.00	130.00	3.00																				
AN05905	133.00	135.00	2.00																				
AN05906	157.00	160.00	3.00																				
AN05907	166.00	169.00	3.00																				
AN05908	178.00	181.00	3.00																				
AN05909	208.00	211.00	3.00																				
AN05910	220.00	223.00	3.00																				
AN05916	271.00	274.00	3.00																				
AN05917	292.00	295.00	3.00																				
AN05918	316.00	319.00	3.00																				

HOLE NUMBER : MN66-01

GEOCHEMICAL ASSAYS

PAGE: 27





# ASSAYERS

LABORATOIRES/LABORATORIES

DIVISION DE/OF ASSAYERS CORPORATION LTD.

780, AV. DU CUIVRE, C.P. 665, ROUYN-NORANDA (QUÉBEC) J9X 5C6 TÉL.: (819) 797-4653 FAX: (819) 797-4501

## Certificat/Certificate

2R-2017-RG1

Comp: **FALCONBRIDGE LTD.**  
Proj: 8668  
Attn: **JIM AULTMAN**

Date: DEC-04-92

Nombre D'Echantillons/No. of Samples:  
Soumis le/Submitted: NOV-21-92

*MN66-01*

No. D'Echantillon Sample Number	AU PPB	AU CH'KS PPB	AU CH'KS PPB	AG PPM	CU PPM	NI PPM	PB PPM	ZN PPM
AN06101	125	-	-	0.2	27	32	39	139
AN06102	51	-	-	0.4	37	85	89	336
AN06103	13	-	-	0.1	17	17	56	210
AN06104	26	-	-	0.5	35	24	1849	7535
AN06105	10	-	-	0.2	29	18	26	241
AN06106	44	-	-	0.2	18	23	57	326
AN06107	6	-	-	0.2	17	18	28	269
AN06108	8	-	-	0.4	36	24	2	61
AN06109	10	10	10	0.3	35	18	ND	59
AN06110	5	-	-	0.2	17	20	ND	43
AN06111	7	-	-	0.2	22	16	ND	46
AN06112	<5	-	-	0.1	37	17	ND	51
AN06113	5	-	-	ND	11	14	12	37
AN06114	101	104	97	1.1	220	131	ND	46
AN06115	65	-	-	1.0	110	53	ND	70
AN06116	9	-	-	0.4	28	29	ND	71
AN06117	11	-	-	0.4	19	31	ND	63
AN06118	<5	-	-	0.5	22	36	13	148
AN06119	10	-	-	0.5	22	34	140	604
AN06120	14	-	-	0.5	26	29	1	132
AN06121	1509	-	-	3.9	*	4	24	171
AN06122	19	-	-	0.2	54	31	11	226

\*NO MORE SAMPLE

Certifie par/Certified by *C. Aultman*

"AU SERVICE DE L'INDUSTRIE DEPUIS PLUS DE 50 ANS"

"SERVING INDUSTRY FOR OVER 50 YEARS"





# ASSAYERS

LABORATOIRES/LABORATORIES

DIVISION DE/OF ASSAYERS CORPORATION LTD.

780, AV. DU CUIVRE, C.P. 665, ROUYN-NORANDA (QUÉBEC) J9X 5C6 TÉL.: (819) 797-4653 FAX: (819) 797-4501

## Certificat/Certificate

2R-2017-RG1

Comp: **FALCONBRIDGE LTD.**

Date: DEC-04-92

Proj: 8668

Attn: JIM AULTMAN

Nombre D'Echantillons/No. of Samples:

Soumis le/Submitted: NOV-21-92

No. D'Echantillon Sample Number	AU PPB	AU CH'KS PPB	AU CH'KS PPB	AG PPM	CU PPM	NI PPM	PB PPM	ZN PPM
AN06101	125	-	-	0.2	27	32	39	139
AN06102	51	-	-	0.4	37	85	89	336
AN06103	13	-	-	0.1	17	17	56	210
AN06104	26	-	-	0.5	35	24	1849	7535
AN06105	10	-	-	0.2	29	18	26	241
AN06106	44	-	-	0.2	18	23	57	326
AN06107	6	-	-	0.2	17	18	28	269
AN06108	8	-	-	0.4	36	24	2	61
AN06109	10	10	10	0.3	35	18	ND	59
AN06110	5	-	-	0.2	17	20	ND	43
AN06111	7	-	-	0.2	22	16	ND	46
AN06112	<5	-	-	0.1	37	17	ND	51
AN06113	5	-	-	ND	11	14	12	37
AN06114	101	104	97	1.1	220	131	ND	46
AN06115	65	-	-	1.0	110	53	ND	70
AN06116	9	-	-	0.4	28	29	ND	71
AN06117	11	-	-	0.4	19	31	ND	63
AN06118	<5	-	-	0.5	22	36	13	148
AN06119	10	-	-	0.5	22	34	140	604
AN06120	14	-	-	0.5	26	29	1	132
AN06121	1509	-	-	3.9	*	4	24	171
AN06122	19	-	-	0.2	54	31	11	226

\*NO MORE SAMPLE

Certifie par/Certified by C Hillman

"AU SERVICE DE L'INDUSTRIE DEPUIS PLUS DE 50 ANS"

"SERVING INDUSTRY FOR OVER 50 YEARS"





# ASSAYERS

LABORATOIRES/LABORATORIES

DIVISION DE/OF ASSAYERS CORPORATION LTD.

780, AV. DU CUIVRE, C.P. 665, ROUYN-NORANDA (QUÉBEC) J9X 5C6 TÉL.: (819) 797-4653 FAX: (819) 797-4501

## Certificat/Certificate

2R-2017-RG2

Comp: **FALCONBRIDGE LTD.**  
Proj: 8668  
Attn: **JIM AULTMAN**

Date: DEC-01-92

Nombre D'Echantillons/No. of Samples:  
Soumis le/Submitted: **NOV-21-92**

No. D'Echantillon Sample Number	AU PPB	AU CH'KS PPB	AU CH'KS PPB	AG PPM	CU PPM	NI PPM	PB PPM	ZN PPM
AN06123	82	-	-	0.6	50	41	1	186
AN06124	50	-	-	0.5	53	41	1	192
AN06125	93	100	86	0.4	54	43	2	225
AN06126	83	80	85	0.4	48	42	4	177
AN06127	44	-	-	0.5	72	44	6	204
AN06128	13	-	-	0.4	51	42	3	192
AN06129	<5	-	-	0.3	26	24	ND	83
AN06130	19	-	-	0.2	35	24	ND	122
AN06131	<5	-	-	0.1	46	15	ND	259
AN06132	39	-	-	ND	16	19	1	59
AN06133	5	-	-	0.1	33	23	ND	61
AN06134	<5	-	-	0.1	40	17	ND	79
AN06135	<5	-	-	0.4	163	50	ND	460
AN06136	95	100	90	0.3	147	43	ND	131
AN06137	39	-	-	ND	22	22	ND	26
AN06138	9	-	-	0.4	92	52	794	4000
AN06139	27	-	-	0.7	188	56	9	149
AN06140	<5	-	-	0.2	357	53	6	230
AN06141	1097	-	-	3.5	!	5	30	170
AN06142	5	-	-	ND	200	58	1	104
AN06143	<5	-	-	ND	139	147	ND	91
AN06144	17	-	-	ND	24	25	4	46

! NO MORE SAMPLE

Certifie par/Certified by *C. Hullman*

"AU SERVICE DE L'INDUSTRIE DEPUIS PLUS DE 50 ANS"

"SERVING INDUSTRY FOR OVER 50 YEARS"





# ASSAYERS

LABORATOIRES/LABORATORIES

DIVISION DE/OF ASSAYERS CORPORATION LTD.

780, AV. DU CUIVRE, C.P. 665, ROUYN-NORANDA (QUÉBEC) J9X 5C6 TÉL.: (819) 797-4653 FAX: (819) 797-4501

## Certificat/Certificate

2R-2017-RG2

Comp: **FALCONBRIDGE LTD.**  
Proj: 8668  
Attn: JIM AULTMAN

Date: DEC-01-92

Nombre D'Echantillons/No. of Samples:  
Soumis le/Submitted: NOV-21-92

No. D'Echantillon Sample Number	AU PPB	AU CH'KS PPB	AU CH'KS PPB	AG PPM	CU PPM	NI PPM	PB PPM	ZN PPM
AN06123	82	-	-	0.6	50	41	1	186
AN06124	50	-	-	0.5	53	41	1	192
AN06125	93	100	86	0.4	54	43	2	225
AN06126	83	80	85	0.4	48	42	4	177
AN06127	44	-	-	0.5	72	44	6	204
AN06128	13	-	-	0.4	51	42	3	192
AN06129	<5	-	-	0.3	26	24	ND	83
AN06130	19	-	-	0.2	35	24	ND	122
AN06131	<5	-	-	0.1	46	15	ND	259
AN06132	39	-	-	ND	16	19	1	59
AN06133	5	-	-	0.1	33	23	ND	61
AN06134	<5	-	-	0.1	40	17	ND	79
AN06135	<5	-	-	0.4	163	50	ND	460
AN06136	95	100	90	0.3	147	43	ND	131
AN06137	39	-	-	ND	22	22	ND	26
AN06138	9	-	-	0.4	92	52	794	4000
AN06139	27	-	-	0.7	188	56	9	149
AN06140	<5	-	-	0.2	357	53	6	230
AN06141	1097	-	-	3.5	!	5	30	170
AN06142	5	-	-	ND	200	58	1	104
AN06143	<5	-	-	ND	139	147	ND	91
AN06144	17	-	-	ND	24	25	4	46

! NO MORE SAMPLE

Certifie par/Certified by

*C. Hellman*

"AU SERVICE DE L'INDUSTRIE DEPUIS PLUS DE 50 ANS"

"SERVING INDUSTRY FOR OVER 50 YEARS"





# ASSAYERS

## LABORATOIRES/LABORATORIES

DIVISION DE/OF ASSAYERS CORPORATION LTD.

780, AV. DU CUIVRE, C.P. 665, ROUYN-NORANDA (QUÉBEC) J9X 5C6 TÉL.: (819) 797-4653 FAX: (819) 797-4501

### Certificat/Certificate

2R-2017-RG3

Comp: **FALCONBRIDGE LTD.**  
Proj: 8668  
Attn: JIM AULTMAN

Date: DEC-01-92

Nombre D'Echantillons/No. of Samples:  
Soumis le/Submitted: NOV-21-92

No. D'Echantillon Sample Number	AU PPB	AG PPM	CU PPM	NI PPM	PB PPM	ZN PPM
AN06145	<5	0.1	38	65	ND	107
AN06146	22	0.2	475	59	ND	272
AN06147	28	ND	156	15	ND	74
AN06148	<5	ND	108	52	ND	152
AN06149	<5	0.1	94	52	ND	112
AN06150	5	ND	112	34	ND	110
AN06151	<5	ND	90	41	ND	89
AN06152	24	0.1	200	122	ND	2320
AN06153	<5	0.1	124	16	ND	91
AN06154	16	0.1	183	104	ND	102

Certifie par/Certified by

*C. Hellman*

"AU SERVICE DE L'INDUSTRIE DEPUIS PLUS DE 50 ANS"

"SERVING INDUSTRY FOR OVER 50 YEARS"





# ASSAYERS

LABORATOIRES/LABORATORIES

DIVISION DE/OF ASSAYERS CORPORATION LTD.

780, AV. DU CUIVRE, C.P. 665, ROUYN-NORANDA (QUÉBEC) J9X 5C6 TÉL.: (819) 797-4653 FAX: (819) 797-4501

## Certificat/Certificate

2R-2017-RG3

Comp: **FALCONBRIDGE LTD.**  
Proj: 8668  
Attn: JIM AULTMAN

Date: DEC-01-92

Nombre D'Echantillons/No. of Samples:  
Soumis le/Submitted: NOV-21-92

No. D'Echantillon Sample Number	AU PPB	AG PPM	CU PPM	NI PPM	PB PPM	ZN PPM
AN06145	<5	0.1	38	65	ND	107
AN06146	22	0.2	475	59	ND	272
AN06147	28	ND	156	15	ND	74
AN06148	<5	ND	108	52	ND	152
AN06149	<5	0.1	94	52	ND	112
AN06150	5	ND	112	34	ND	110
AN06151	<5	ND	90	41	ND	89
AN06152	24	0.1	200	122	ND	2320
AN06153	<5	0.1	124	16	ND	91
AN06154	16	0.1	183	104	ND	102

Certifie par/Certified by

C. Hillman

"AU SERVICE DE L'INDUSTRIE DEPUIS PLUS DE 50 ANS"

"SERVING INDUSTRY FOR OVER 50 YEARS"





**ASSAYERS**  
 LABORATOIRES/LABORATORIES  
 DIVISION DE/OF ASSAYERS CORPORATION LTD.  
 780, AV. DU CUIVRE, C.P. 665, ROUYN-NORANDA (QUÉBEC) J9X 5C6 TÉL.: (819) 797-4653 FAX: (819) 797-4501

**Certificat/Certificate**

**2R-1959-RG1**

Comp: **FALCONBRIDGE LTD.**  
 Proj: 8668  
 Attn: **JIM AULTMAN**

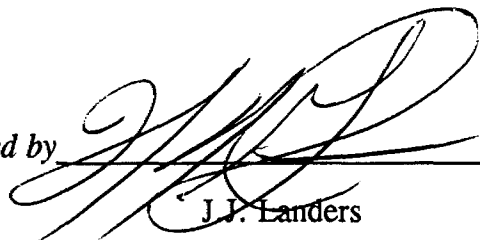
Date: **NOV-18-92**

Nombre D'Echantillons/No. of Samples:  
 Soumis le/Submitted: **NOV-12-92**

*LA MN 56-01*

No. D'Echantillon Sample Number	AU PPB	AU CH'KS PPB	AU CH'KS PPB	AG PPM	CU PPM	NI PPM	PB PPM	ZN PPM
AMD6993	<5			0.2	80	18	ND	166
AMD6994	10			0.7	500	17	ND	103
AMD6995	9			0.5	280	27	ND	108
AMD6996	9			0.4	63	19	ND	77
AMD6997	5			0.4	130	25	ND	87
AMD6998	5			0.3	27	30	2	51
AMD6999	5			0.3	34	38	ND	56
AMD7000	92			1.4	900	15	ND	96
AN05682	53			4.1	12700	ND	30	160
AN05683	9			0.4	170	16	1	109
AMD6886	17			ND	26	15	ND	22
AMD6887	<5			ND	24	7	25	175
AMD6888	<5			0.2	16	2	38	65
AMD6889	<5			0.2	19	6	ND	50
AMD6890	7			0.2	12	ND	ND	92
AMD6891	8			0.3	18	10	9	76
AMD6892	11			0.1	17	18	3	129
AMD6893	11	11	10	0.5	37	25	3	340
AMD6894	40			0.4	31	31	6	168
AMD6895	36			0.4	21	13	6	240
AMD6896	40			0.4	32	12	6	180
AMD6897	33	38	27	0.5	33	31	5	220

Certifie par/Certified by

  
 J. J. Landers

"AU SERVICE DE L'INDUSTRIE DEPUIS PLUS DE 50 ANS"  
 "SERVING INDUSTRY FOR OVER 50 YEARS"





# ASSAYERS

LABORATOIRES/LABORATORIES

DIVISION DE/OF ASSAYERS CORPORATION LTD.

780, AV. DU CUIVRE, C.P. 665, ROUYN-NORANDA (QUÉBEC) J9X 5C6 TÉL.: (819) 797-4653 FAX: (819) 797-4501

## Certificat/Certificate

2R-1959-RG1

Comp: **FALCONBRIDGE LTD.**

Date: NOV-18-92

Proj: 8668

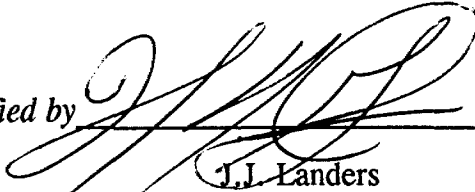
Attn: JIM AULTMAN

Nombre D'Echantillons/No. of Samples:

Soumis le/Submitted: NOV-12-92

No. D'Echantillon Sample Number	AU PPB	AU CH'KS PPB	AU CH'KS PPB	AG PPM	CU PPM	NI PPM	PB PPM	ZN PPM
AMD6993	<5			0.2	80	18	ND	166
AMD6994	10			0.7	500	17	ND	103
AMD6995	9			0.5	280	27	ND	108
AMD6996	9			0.4	63	19	ND	77
AMD6997	5			0.4	130	25	ND	87
AMD6998	5			0.3	27	30	2	51
AMD6999	5			0.3	34	38	ND	56
AMD7000	92			1.4	900	15	ND	96
AN05682	53			4.1	12700	ND	30	160
AN05683	9			0.4	170	16	1	109
AMD6886	17			ND	26	15	ND	22
AMD6887	<5			ND	24	7	25	175
AMD6888	<5			0.2	16	2	38	65
AMD6889	<5			0.2	19	6	ND	50
AMD6890	7			0.2	12	ND	ND	92
AMD6891	8			0.3	18	10	9	76
AMD6892	11			0.1	17	18	3	129
AMD6893	11	11	10	0.5	37	25	3	340
AMD6894	40			0.4	31	31	6	168
AMD6895	36			0.4	21	13	6	240
AMD6896	40			0.4	32	12	6	180
AMD6897	33	38	27	0.5	33	31	5	220

Certifie par/Certified by

  
J.J. Landers

"AU SERVICE DE L'INDUSTRIE DEPUIS PLUS DE 50 ANS"

"SERVING INDUSTRY FOR OVER 50 YEARS"







# ASSAYERS

LABORATOIRES/LABORATORIES

DIVISION DE/OF ASSAYERS CORPORATION LTD.

780, AV. DU CUIVRE, C.P. 665, ROUYN-NORANDA (QUÉBEC) J9X 5C6 TÉL.: (819) 797-4653 FAX: (819) 797-4501

## Certificat/Certificate

2R-1959-RG2

Comp: **FALCONBRIDGE LTD.**

Date: **NOV-23-92**

Proj: **8668**

Attn: **JIM AULTMAN**

Nombre D'Echantillons/No. of Samples:

Soumis le/Submitted: **NOV-12-92**

No. D'Echantillon Sample Number	AU PPB	AU CH'KS PPB	AU CH'KS PPB	AG PPM	CU PPM	NI PPM	PB PPM	ZN PPM
AND6898	66	-	-	0.3	27	36	1	208
AND6899	38	40	34	0.4	25	38	1	164
AND6900	24	-	-	0.5	55	56	2	166
AN06001	1137	-	-	3.6	>4500	1	23	151
AN06002	16	-	-	0.6	90	71	2	150
AN06003	10	-	-	0.2	33	19	ND	122
AN06004	<5	-	-	0.1	29	10	ND	148
AN06005	40	-	-	0.3	90	166	15	1120
AN06006	12	-	-	0.1	60	35	ND	108
AN06007	8	-	-	0.2	71	29	2	129
AN06008	6	-	-	0.1	117	13	ND	105
AN06009	5	-	-	0.1	10	11	ND	47
AN06010	<5	-	-	0.1	220	100	5	390
AN06011	20	-	-	0.2	350	108	29	2520
AN06012	20	-	-	0.2	202	91	32	3160
AN06013	6	-	-	0.2	140	130	27	730
AN06014	<5	-	-	0.3	176	39	ND	270
AN06015	<5	-	-	0.5	106	111	ND	252
AN06016	<5	-	-	1.1	210	105	14	380
AN06017	12	-	-	0.2	113	22	ND	110
AN06018	6	-	-	0.9	188	70	18	340
AN06019	48	-	-	0.9	182	92	30	1240

Certifie par/Certified by

J.J. Landers

"AU SERVICE DE L'INDUSTRIE DEPUIS PLUS DE 50 ANS"

"SERVING INDUSTRY FOR OVER 50 YEARS"





# ASSAYERS

LABORATOIRES/LABORATORIES

DIVISION DE/OF ASSAYERS CORPORATION LTD.

780, AV. DU CUIVRE, C.P. 665, ROUYN-NORANDA (QUÉBEC) J9X 5C6 TÉL.: (819) 797-4653 FAX: (819) 797-4501

## Certificat/Certificate

2R-1959-RG2

Comp: **FALCONBRIDGE LTD.**

Date: NOV-23-92

Proj: 8668

Attn: JIM AULTMAN

Nombre D'Echantillons/No. of Samples:

Soumis le/Submitted: NOV-12-92

No. D'Echantillon Sample Number	AU PPB	AU CH'KS PPB	AU CH'KS PPB	AG PPM	CU PPM	NI PPM	PB PPM	ZN PPM
AMD6898	66	-	-	0.3	27	36	1	208
AMD6899	38	40	34	0.4	25	38	1	164
AMD6900	24	-	-	0.5	55	56	2	166
AN06001	1137	-	-	3.6	>4500	1	23	151
AN06002	16	-	-	0.6	90	71	2	150
AN06003	10	-	-	0.2	33	19	ND	122
AN06004	<5	-	-	0.1	29	10	ND	148
AN06005	40	-	-	0.3	90	166	15	1120
AN06006	12	-	-	0.1	60	35	ND	108
AN06007	8	-	-	0.2	71	29	2	129
AN06008	6	-	-	0.1	117	13	ND	105
AN06009	5	-	-	0.1	10	11	ND	47
AN06010	<5	-	-	0.1	220	100	5	390
AN06011	20	-	-	0.2	350	108	29	2520
AN06012	20	-	-	0.2	202	91	32	3160
AN06013	6	-	-	0.2	140	130	27	730
AN06014	<5	-	-	0.3	176	39	ND	270
AN06015	<5	-	-	0.5	106	111	ND	252
AN06016	<5	-	-	1.1	210	105	14	380
AN06017	12	-	-	0.2	113	22	ND	110
AN06018	6	-	-	0.9	188	70	18	340
AN06019	48	-	-	0.9	182	92	30	1240

Certifie par/Certified by

L.J. Landers

"AU SERVICE DE L'INDUSTRIE DEPUIS PLUS DE 50 ANS"

"SERVING INDUSTRY FOR OVER 50 YEARS"





# ASSAYERS

LABORATOIRES/LABORATORIES

DIVISION DE/OF ASSAYERS CORPORATION LTD.

780, AV. DU CUIVRE, C.P. 665, ROUYN-NORANDA (QUÉBEC) J9X 5C6 TÉL.: (819) 797-4653 FAX: (819) 797-4501

## Certificat/Certificate

2R-1959-RG3

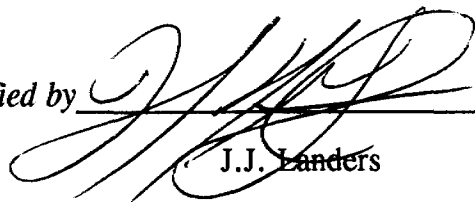
Comp: **FALCONBRIDGE LTD.**  
Proj: 8668  
Attn: JIM AULTMAN

Date: NOV-23-92

Nombre D'Echantillons/No. of Samples:  
Soumis le/Submitted: NOV-12-92

No. D'Echantillon Sample Number	AU PPB	AG PPM	CU PPM	NI PPM	PB PPM	ZN PPM
AN06020	6	ND	85	20	ND	127
AN06021	1131	4.0	13800	ND	24	170
AN06022	8	ND	112	20	ND	40

Certifié par/Certified by



---

J.J. Landers

"AU SERVICE DE L'INDUSTRIE DEPUIS PLUS DE 50 ANS"

"SERVING INDUSTRY FOR OVER 50 YEARS"





# ASSAYERS

LABORATOIRES/LABORATORIES

DIVISION DE/OF ASSAYERS CORPORATION LTD.

780, AV. DU CUIVRE, C.P. 665, ROUYN-NORANDA (QUÉBEC) J9X 5C6 TÉL.: (819) 797-4653 FAX: (819) 797-4501

## Certificat/Certificate

2R-1959-RG3

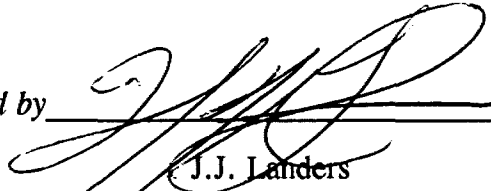
Comp: **FALCONBRIDGE LTD.**  
Proj: 8668  
Attn: **JIM AULTMAN**

Date: NOV-23-92

Nombre D'Echantillons/No. of Samples:  
Soumis le/Submitted: NOV-12-92

No. D'Echantillon Sample Number	AU PPB	AG PPM	CU PPM	NI PPM	PB PPM	ZN PPM
AN06020	6	ND	85	20	ND	127
AN06021	1131	4.0	13800	ND	24	170
AN06022	8	ND	112	20	ND	40

Certifie par/Certified by



J.J. Landers

"AU SERVICE DE L'INDUSTRIE DEPUIS PLUS DE 50 ANS"

"SERVING INDUSTRY FOR OVER 50 YEARS"





80m

80m

0m

0m

-80m

-80m

-160m

-160m

47+20mN

48+00mN

48+80mN

49+60mN

## LEGEND

## Geology

## MAJOR ROCK DIVISIONS

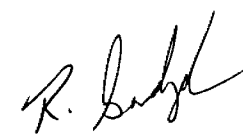
- |    |                              |
|----|------------------------------|
| 10 | DIABASE                      |
| 9  | FELSIC INTRUSIVE ROCKS       |
| 8  | INTERMEDIATE INTRUSIVE ROCKS |
| 7  | MAFIC INTRUSIVE ROCKS        |
| 6  | ULTRAMAFIC INTRUSIVE ROCKS   |
| 5  | SEDIMENTARY ROCKS        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

## TEXTURAL/GEOCHEMICAL MODIFIERS

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

## ALTERATION MODIFIERS

- |      |                     |                             |
|------|---------------------|-----------------------------|
| <Ab> | Albitization        | Cu >1000 ppm, Zn >1000 ppm, |
| <Bl> | Bleached            | Au >100 ppb, Ag >10 ppm,    |
| <C>  | Carbonaceous        | Pb >100 ppm, Ni >100 ppm    |
| <Cb> | Carbonatization     |                             |
| <Ch> | Chloritization      |                             |
| <Ep> | Epidotization       |                             |
| <He> | Hematization        |                             |
| <K>  | Potassic Alteration |                             |
| <Sa> | Sericification      |                             |
| <Si> | Silicification      |                             |
| <Sr> | Serpentinization    |                             |
| <Tc> | Talc-Carbonatized   |                             |



FALCONBRIDGE LIMITED

Exploration Division

Timmins, ONTARIO



GENOA/HEENAN CLAIMS

ROTATED DRILL SECTION L 147+50 E (+/-50m)

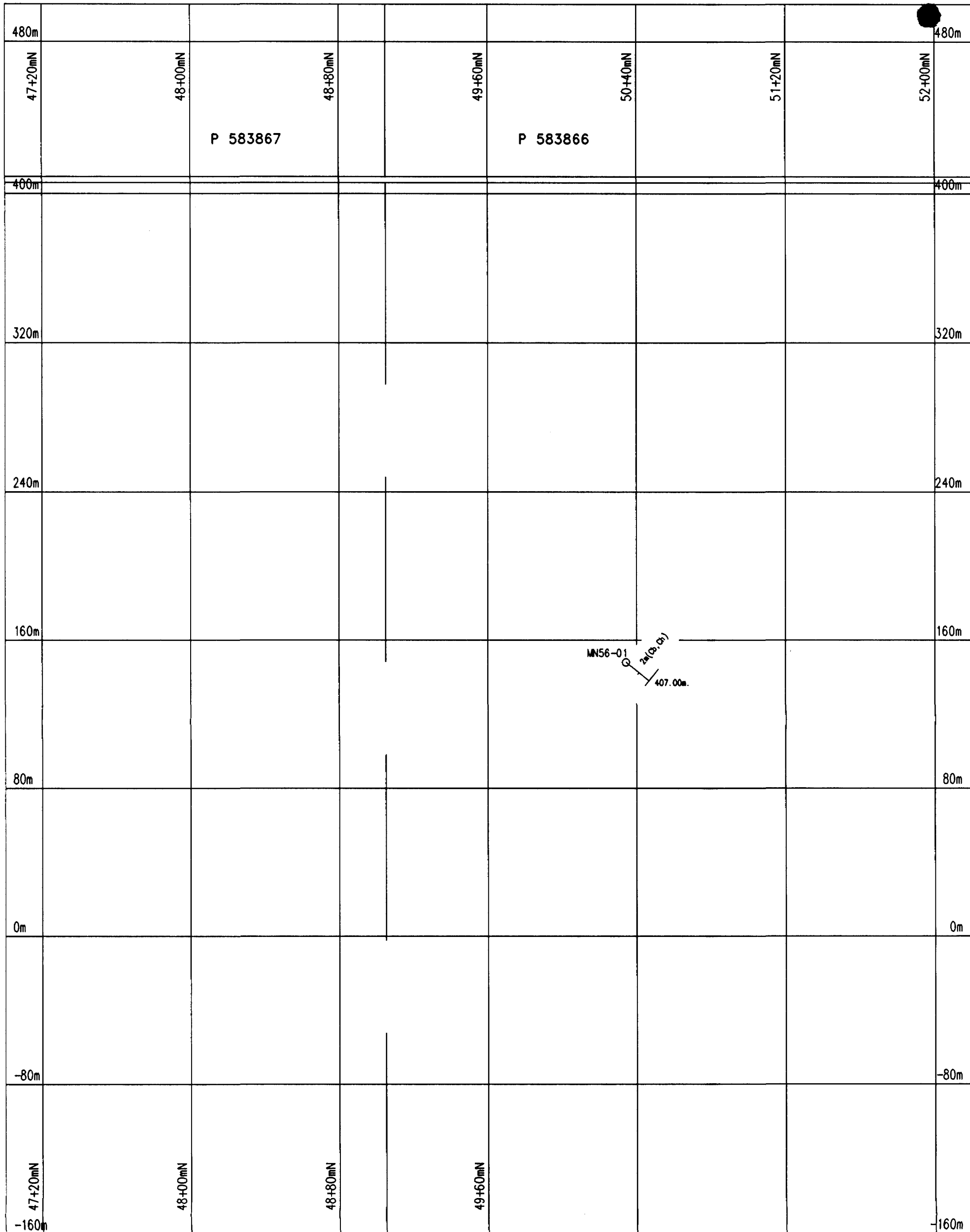
LOOKING SOUTHWEST (345°)

GENOA &amp; MARION Taps.

Traced	: ARZES 12/01/83	NTS	: 41-0/16	PROJECT No.	: 8668
Drawn	: d e l 17/01/83	MAP No.	:	FILE	: 8668 D
Supervised	: R E GORDON 02/01/83	Scale	: 1 : 2000 (metres)		
Revised	:				

50+40mN





**LEGEND**

**Geology**

MAJOR ROCK DIVISIONS

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

TEXTURAL/GEOCHEMICAL MODIFIERS

- |    |                         |   |                                |
|----|-------------------------|---|--------------------------------|
| a  | Fine Grained            | A | Primitive ( $\gamma < 20$ )    |
| b  | Medium Grained          | B | Evolved ( $\gamma > 20 < 60$ ) |
| 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 | Leucaxene Bearing              |
| g  | Graphitic/Argillaceous  | H | Basaltic Komatiite             |
| h  | Tholeiitic              |   |                                |
| i  | Alkalic                 | J | Pyroxenite                     |
| j  | Calc-Alkalic            | K | Net Textured                   |
| k  | Komatiitic              | L | Peridotite                     |
| l  | Flows                   | M | Dunite                         |
| m  | Mossy                   | N | Ophitic                        |
| n  | Variolitic/Spherulitic  | P | Porphyritic                    |
| p  | Pillowed                | Q |                                |
| q  | Quartz Phyrlic          | 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 | Accumulate                     |
| x  | Andesite                |   |                                |

*R. Sargent*



-80m

-80m

47+20mN  
-160m

48+00mN

48+80mN

49+60mN

-160m

## LEGEND

### Geology

#### MAJOR ROCK DIVISIONS

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

#### TEXTURAL/GEOCHEMICAL MODIFIERS

- |    |                        |   |                       |
|----|------------------------|---|-----------------------|
| a  | Fine Grained           | A | Primitive (Y<20)      |
| b  | Medium Grained         | B | Evolved (Y>20<60)     |
| bx | Breccia                | C | Heterolithic          |
| c  | Coarse Grained         | D | Feldspar Phyric       |
| d  | Quartz-Feldspar Phyric | 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                  | N | Ophitic               |
| m  | Massive                | O | Porphyritic           |
| n  | Varfolitic/Spherulitic | P |                       |
| p  | Pillowed               | Q |                       |
| q  | Quartz Phyric          | 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  | Andesite               | Z | Orthocumulate         |
| z  | Icebandite             |   |                       |

#### ALTERATION MODIFIERS

- |      |                     |                               |
|------|---------------------|-------------------------------|
| <Ab> | Albitization        | Cu >1000 ppm , Zn >1000 ppm , |
| <Bl> | Bleached            | Au >100 ppb , Ag >10 ppm ,    |
| <C>  | Carbonaceous        | Pb >100 ppm , Ni >100 ppm     |
| <Cb> | Carbonatization     |                               |
| <Ch> | Chloritization      |                               |
| <Ep> | Epidotization       |                               |
| <He> | Hematization        |                               |
| <K>  | Potassic Alteration |                               |
| <Se> | Sericitization      |                               |
| <Si> | Silicification      |                               |
| <Sr> | Serpentinization    |                               |
| <Tc> | Talc-Carbonatized   |                               |

*R. Gault*

FALCONBRIDGE LIMITED

Exploration Division

Timmins, ONTARIO



GENOA/HEENAN CLAIMS

ROTATED DRILL SECTION L 148+50 E (+/-50m)

LOOKING SOUTHWEST (345°)

GENOA & MARION Taps.

Traced	: PRZES	10/05/93	NTS	: 11-0/16	PROJECT No:	2669
Drawn	: d e l	17/01/93	MAP No:		FILE:	2669 #
Supervised	: R E Gault	02/01/93	Scale:	1 : 2000	(metres)	
Revised	: d e l	10/05/93	0 20 40 60 80			

50+40mN

-240m





-80m

-80m

-160m

-160m

-240m

## LEGEND

### Geology

#### MAJOR ROCK DIVISIONS

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

#### TEXTURAL/GEOCHEMICAL MODIFIERS

a	Fine Grained	A	Primitive (<20)
b	Medium Grained	B	Evolved (>20<60)
bx	Breccia	C	Heterolithic
c	Coarse Grained	D	Feldspar Phyric
d	Quartz-Feldspar Phyric	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	Flow	N	Ophitic
m	Massive	O	Porphyritic
n	Variolitic/Spherulitic	P	Polysaturated
p	Pillowed	Q	Fractured
q	Quartz Phyric	R	Gabbroic Textured
r	Oxide Iron Formation	S	Pyroxene Spinifex
s	Sulphides, Exhalites	T	Olivine Spinifex
t	Pyroclastic	U	Skeletal/Crescumulate
u	High Mg	V	Accumulate
v	High Fe	W	Mesocumulate
w	High Al	X	Orthocumulate
x	Andesite	Y	
y	Icelandite	Z	
z			

#### ALTERATION MODIFIERS

<Ab>	Albitization	Cu >1000 ppm , Zn >1000 ppm .
<Bl>	Bleached	Au >100 ppb , Ag >10 ppm .
<Cb>	Carbonaceous	Pb >100 ppm , Ni >100 ppm
<Cb>	Carbonatization	
<Ch>	Chloritization	
<Ep>	Epidotization	
<He>	Hematization	
<K>	Potassic Alteration	
<Se>	Sericitization	
<Si>	Silicification	
<Sr>	Serpentinization	
<Tc>	Talc-Carbonatized	

*R. Saulters*

FALCONBRIDGE LIMITED

Exploration Division

Timmins, ONTARIO



GENOA/HEENAN CLAIMS

ROTATED DRILL SECTION L 154+00 E (+/-50m)

LOOKING SOUTHWEST (345°) GENOA & MARION Taps.

Traced	: <i>ARZES</i>	<i>12/03/83</i>	NTS	: <i>41-0/16</i>	PROJECT No	: <i>0668</i>
Drawn	: <i>d e l</i>	<i>11/03/83</i>	MAP No	:	FILE	: <i>0668 E</i>
Supervised	: <i>R E Gutzala</i>	<i>02/03/83</i>	Scale	:	1 : 2000	(metres)
Revised	:		0 20 40 60 80			

50+40mN

# Report of Work Conducted After Recording Claim

## Mining Act

Transaction Number  
**W9360.00056**

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, Ministry of Northern Development and Mines, Fourth Floor, 159 Cedar Street, Sudbury, Ontario, P3E 6A5, telephone (705) 670-7264.

- 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) <b>FALCONBRIDGE LIMITED</b>		Client No. <b>130679</b>
Address <b>P.O. BOX 1140, 571 MONETA AVENUE, TIMMINS, ON, P4N 7H9</b>		Telephone No. <b>(705)267-1188</b>
Mining Division <b>PORCUPINE</b>	Township/Area <b>MARION AND GENOA</b>	M or G Plan No. <b>G-1131, G-1174</b>
Dates Work Performed	From: <b>30/09/92</b>	To: <b>02/12/92</b>

**Work Performed (Check One Work Group Only)**

Work Group	Type
<input checked="" type="checkbox"/> Geotechnical Survey	<b>DIAMOND DRILLING WITH ASSAYS AND WPA</b>
<input type="checkbox"/> Physical Work, Including Drilling	
<input type="checkbox"/> Rehabilitation	
<input type="checkbox"/> Other Authorized Work	
<input type="checkbox"/> Assays	
<input type="checkbox"/> Assignment from Reserve	

ONTARIO GEOLOGICAL SURVEY  
GIS - ASSESSMENT FILES  
MAY 20 1993  
**RECEIVED**

**RECORDED**  
**MAR 24 1993**

Total Assessment Work Claimed on the Attached Statement of Costs \$ 220,700.00

**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
ALEX GAGNON NOREX DRILLING LIMITED	P.O. BOX 88, PORCUPINE, ON, P0N 1C0
R.E. GADZALA FALCONBRIDGE LIMITED	P.O. BOX 1140, 571 MONETA AVENUE, TIMMINS, ON, P4N 7H9

attach a schedule if necessary)

**Verification 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	Recorded Holder or Agent (Signature)
--	------	--------------------------------------

**Verification 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  
**R.E. GADZALA, c/o FALCONBRIDGE LIMITED, P.O. BOX 1140, 571 MONETA AVENUE, TIMMINS, ON, P4N**

Telephone No. <b>(705)267-1188</b>	Date <b>March 24/93</b>	Certified By (Signature) <i>R. Gadzala</i>
---------------------------------------	----------------------------	---

**Office Use Only**

Total Value Cr. Recorded <b>220,700.00</b>	Date Recorded <b>MARCH 24/93</b>	Mining Recorder <i>[Signature]</i>	RECEIVED MAR 24 1993 <i>[Signature]</i>
	Deemed Approval Date <b>JUNE 22/93</b>	Date Approved	
	Date Notice for Amendments Sent		





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  
**W9360.0056**

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) 870-7264.

Les renseignements personnels contenus dans la présente formule ont été 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<sup>e</sup> étage, Sudbury (Ontario) P3E 6A5, téléphone (705) 870-7264.

1. Direct Costs/Coûts directs

Type	Description	Amount Montant	Totals Total global
Wages Salaires	Labour Main-d'oeuvre		
	Field Supervision Supervision sur le terrain	\$1500.00	\$1500.00
Contractor's and Consultant's Fees Droits de l'entrepreneur et de l'expert- conseil	Type DRILLING	\$207,982.00	
	ASSAYS/WRA	\$10,089.00	
			\$218,071.00
Supplies Used Fournitures utilisées	Type		
	RECORDED MAR 24 1993		
Equipment Rental Location de matériel	Type		
	Receipt		
Total Direct Costs Total des coûts directs			\$219,571.00

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 TRUCK RENTAL	\$1000.00	
	GAS	\$129.00	
FOURCOURT MINING DIVISION RECEIVED MAR 24 1993			
Food and Lodging Nourriture et hébergement			
Mobilization and Demobilization Mobilisation et démobilisation			
Sub Total of Indirect Costs Total partiel des coûts indirects			\$1129.00
Amount Allowable (not greater than 20% of Direct Costs) Montant admissible (n'excédant pas 20 % des coûts directs)			\$1129.00
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)	\$220,700.00

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 R.E. GADZALA, (SR. FIELD GEOLOGIST) I am authorized  
(Recorded Holder, Agent, Position in Company)

to make this certification

Attestation de l'état des coûts

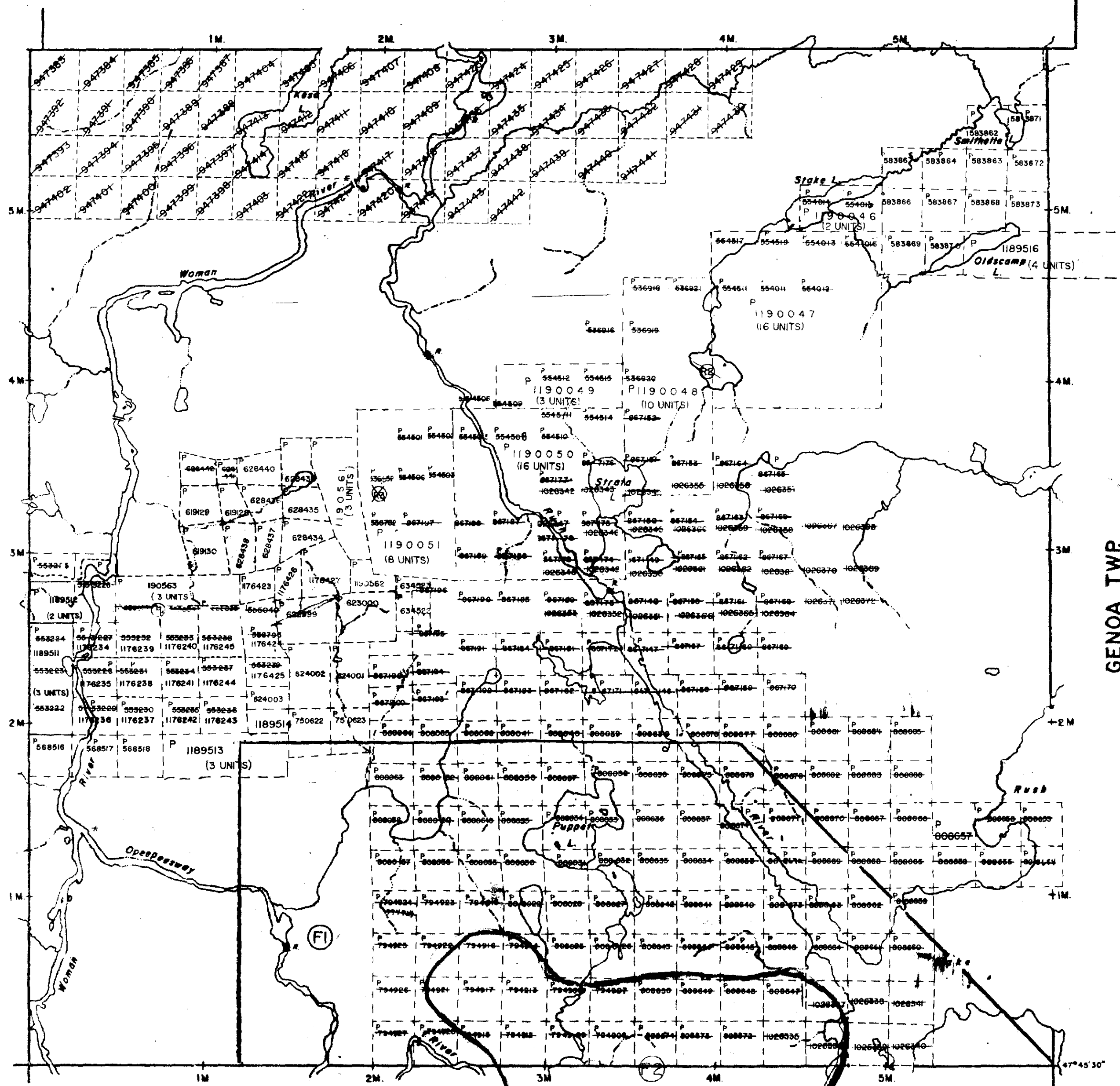
J'atteste par la présente :  
que les montants indiqués sont le plus exact possible et que ces dépenses ont été engagées pour effectuer les travaux d'évaluation sur les terrains indiqués dans la formule de rapport de travail ci-joint.

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

à faire cette attestation.

Signature R. Gadzala Date March 24/93

DALE TWP



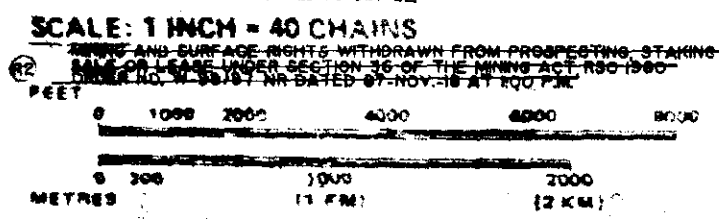
MALLARD TWP

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.

AREAS WITHDRAWN FROM DISPOSITION

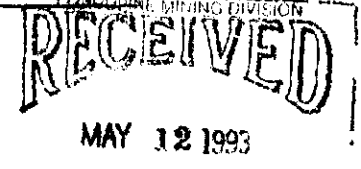
- M.R.O. - MINING RIGHTS ONLY
- S.R.O. - SURFACE RIGHTS ONLY
- M.+S. - MINING AND SURFACE RIGHTS

Description	Order No.	Date	Disposition	File
MINING AND SURFACE RIGHTS WITHDRAWN FROM PROSPECTING, STAKING OUT, SALE OR LEASE UNDER SECTION 36 OF THE MINING ACT R.S.O. 1990	1189513	05-05-93	PROSPECTING, STAKING OUT, SALE OR LEASE UNDER SECTION 36 OF THE MINING ACT R.S.O. 1990	1189513
SURFACE AND MINING RIGHTS REOPENED TO PROSPECTING, STAKING OUT, SALE OR LEASE UNDER SECTION 36 OF THE MINING ACT R.S.O. 1990	0-2-90	05-05-93	PROSPECTING, STAKING OUT, SALE OR LEASE UNDER SECTION 36 OF THE MINING ACT R.S.O. 1990	1189513



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
- MARSH OR MUSKEG
- MINES
- CANCELLED
- PATENTED S.R.O.
- LAND USE PERMIT



THIS TWP. IS SUBJECT TO FOREST ACTIVITY IN 1993/94. FURTHER INFORMATION ON FILE.

NOTES

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

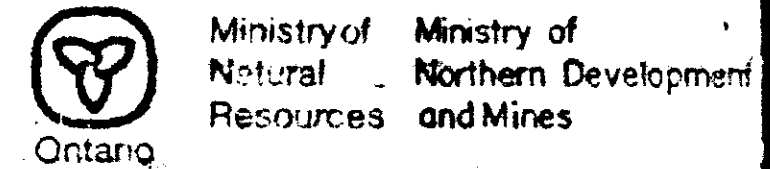
MINING AND SURFACE RIGHTS WITHDRAWN FROM STAKING UNDER SECTION 36 OF THE MINING ACT R.S.O. 1990

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

MINING AND SURFACE RIGHTS RE-OPENED TO PROSPECTING, STAKING OUT, SALE AND LEASE UNDER SECTION 36 OF THE MINING ACT R.S.O. 1990

MARION

M.N.R. ADMINISTRATIVE DISTRICT  
 CHAPLEAU  
 MINING DIVISION  
 PORCUPINE  
 LAND TITLES / REGISTRY DIVISION  
 SUDBURY



Date: JULY 1996  
 Number: G-1174





41016SE999 21 MARION

900

1155M17 FILES  
Transaction Number  
**W9360.00056**

Personal information collected for this collection should be disclosed to the Provincial Manager, Mining Lands, Ministry of Northern Development and Mines, Fourth Floor, 158 Cedar Street, Sudbury, Ontario, P3E 6A5, telephone (705) 670-7284.

- 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) <b>FALCONBRIDGE LIMITED</b>		Client No. <b>130679</b>
Address <b>P.O. BOX 1140, 571 MONETA AVENUE, TIMMINS, ON, P4N 7B9</b>		Telephone No. <b>(705)267-1188</b>
Mining Division <b>PORCUPINE</b>	Township/Area <b>MARION AND GENOA</b>	M or G Plan No. <b>G-1131, G-1174</b>
Date Work Performed From: <b>30/09/92</b>	To: <b>02/12/92</b>	

Work Performed (Check One Work Group Only)

Work Group	Type
<input checked="" type="checkbox"/> Geotechnical Survey	<b>DIAMOND DRILLING WITH ASSAYS AND MRA</b>
<input type="checkbox"/> Physical Work, including Drilling	
<input type="checkbox"/> Rehabilitation	
<input type="checkbox"/> Other Authorized Work	
<input type="checkbox"/> Assays	
<input type="checkbox"/> Assignment from Reserve	

ONTARIO GEOLOGICAL SURVEY  
GIS-ASSESSMENT FILES  
MAY 20 1993  
**RECEIVED**

**RECORDED**  
MAR 24 1993  
Receipt # \_\_\_\_\_

Total Assessment Work Claimed on the Attached Statement of Costs \$ 220,700.00

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
<b>ALEX GAGNON NOREX DRILLING LIMITED</b>	<b>P.O. BOX 88, PORCUPINE, ON, P0N 1C0</b>
<b>R.E. GADZALA FALCONBRIDGE LIMITED</b>	<b>P.O. BOX 1140, 571 MONETA AVENUE, TIMMINS, ON, P4N 7B9</b>

(attach a schedule if necessary)

Verification 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	Recorded Holder or Agent (Signature)
--	------	--------------------------------------

Verification 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  
**R.E. GADZALA, c/o FALCONBRIDGE LIMITED, P.O. BOX 1140, 571 MONETA AVENUE, TIMMINS, ON, P4N 7B9**

Telephone No. <b>(705)267-1188</b>	Date <b>March 24/93</b>	Certified By (Signature) <i>R. Gadzala</i>
---------------------------------------	----------------------------	---

Office Use Only

Total Value Cr. Recorded <b>220,700.</b>	Date Recorded <b>MARCH 24/93</b>	Mining Recorder <i>[Signature]</i>	<div style="border: 2px solid black; padding: 10px;"> <p><b>RECEIVED</b> MAR 24 1993 <i>[Signature]</i></p> </div>
	Deemed Approval Date <b>JUNE 22/93</b>	Date Approved	
	Date Notice for Amendments Sent		







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  
**W1360.0056**

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, 150 Cedar Street, Sudbury, Ontario P3E 6A5, telephone (705) 670-7284.

Les renseignements personnels contenus dans la présente formule ont été 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 ce renseignements au chef provincial des terrains miniers, ministère du Développement du Nord et des Mines, 150, rue Cedar, 4<sup>e</sup> étage, Sudbury (Ontario) P3E 6A5, Téléphone (705) 670-7284.

1. Direct Costs/Coûts directs

Type	Description	Amount Montant	Totals Total global
Wages Salaires	Labour Main-d'oeuvre		
	Field Supervision Supervision sur le terrain	\$1500.00	\$1500.00
Contractor's and Consultant's Fees Droits de l'entrepreneur et de l'expert- conseil	Type DRILLING	\$207,982.00	
	ASSAYS/WRA	\$10,089.00	
			\$218,071.00
Supplies Used Fournitures utilisées	Type		
Equipment Rental Location de matériel	Type		
Total Direct Costs Total des coûts directs			\$219,571.00

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 TRUCK RENTAL	\$1000.00	
	GAS	\$129.00	
Food and Lodging Nourriture et hébergement			
Mobilization and Demobilization Mobilisation et démobilisation			
Sub Total of Indirect Costs Total partiel des coûts indirects			\$1129.00
Amount Allowable (not greater than 20% of Direct Costs) Montant admissible (n'excedant pas 20 % des coûts directs)			\$1129.00
Total Value of Assessment Credit (Total of Direct and Allowable indirect costs)			\$220,700.00

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 R.E. GADZALA, (SR. FIELD GEOLOGIST) 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 R. Gadzala Date March 24/93