DIAMOND [illegible]

MONCRIEFF TWP

REPORT #16

WORK PERFORMED FOR: Falconbridge Ltd.

RECORDED HOLDER: Same as Above (xx)
: Other ( )

Claim No.	Hole No.	Footage	Date	Note
S808969	TH-1	371.03m	Oct/88	(1)
	TH-2	419.71m	Oct-Nov/88	(1)
	TA-3	375.82m	Oct-Nov/88	(1)

NOTES: (1) W8907-077, filed Sept/89

020

FALCONBRIDGE EXPLORATION

&PN232

1988 DIAMOND DRILL PROGRAMME ASSESSMENT REPORT

-TH OPTION-

CARTIER AREA

10 July 1989

SUDBURY MINING DIVISION

NTS 41-I/13

46°47'30"N

81°36'30"W

SUDBURY OFFICE

M.J. GRAY

CONTENTS

I. SUMMARY AND CONCLUSIONS

The TH Option property is located 64km NW of Sudbury within the Archean Benny Greenstone Belt and in the Sudbury Mining Division (NTS 41-I/13, 46°47'30"N; 81°36'30"W). A three hole diamond drill programme (total 1166.47m) tested one target target area for Zn-Cu-Pb-Ag±Au volcanogenic massive sulphide mineralization.

The drill holes did not intersect any significant base or precious metal mineralization.

II. INTRODUCTION

The TH property is located 64km northwest of Sudbury within the Archean Benny Greenstone Belt and in the Sudbury Mining Division (centered on coordinates 46°47'30"N, 81°36'30"W; NTS 41-I/13). Highway 144 bisects the claim group (22 claims) and in conjunction with the Benny and Geneva Lake roads provides excellent access to the property (Fig. 1).

During October 17th to November 9th, 1988, three NQ diamond drill holes (TH-1,2,3) were drilled on the TH Option for a total of 1166.47m (3826.2 ft). McKnight Drilling Company Limited was the contractor. The core is stored at Falconbridge.

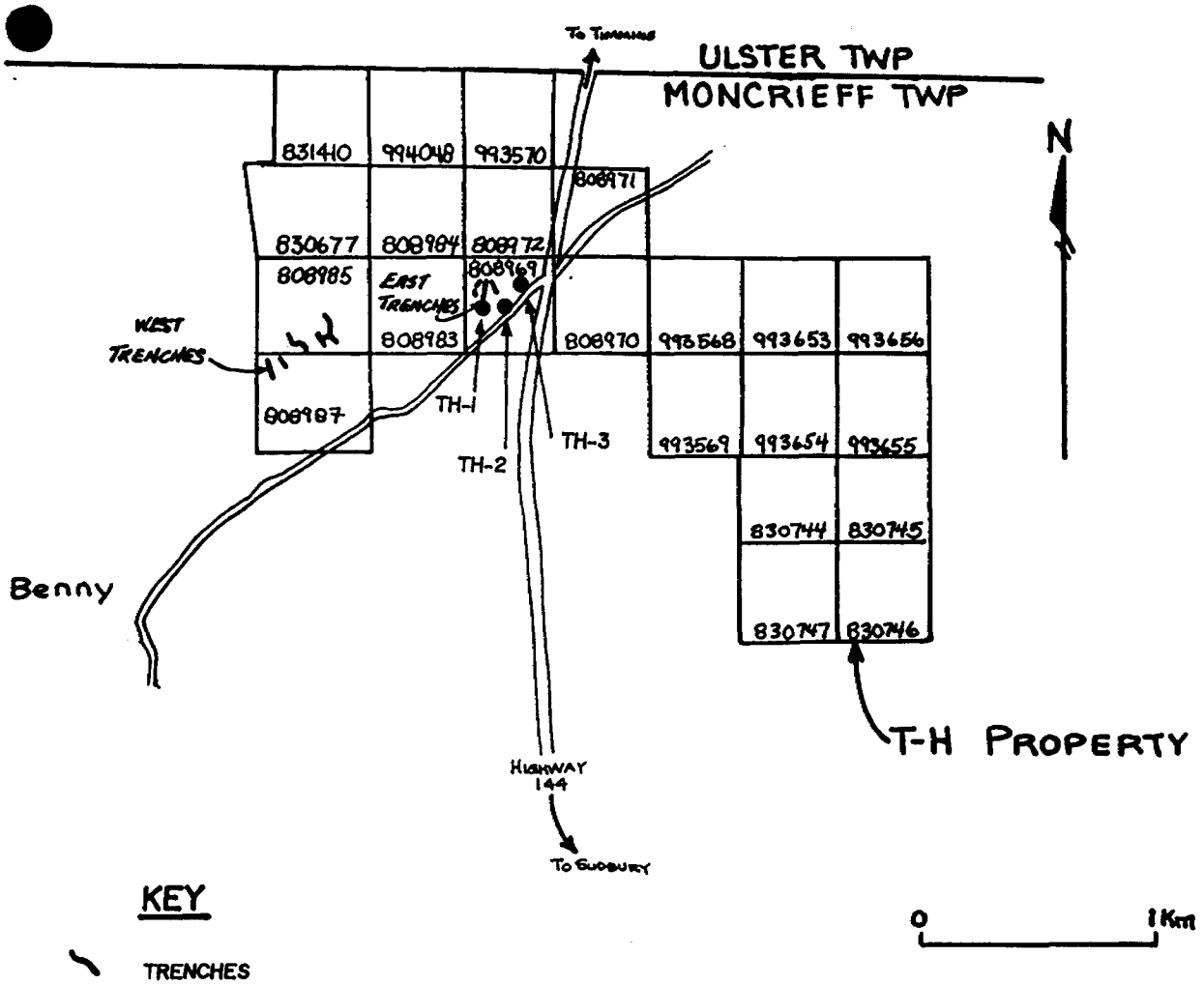

Figure 1

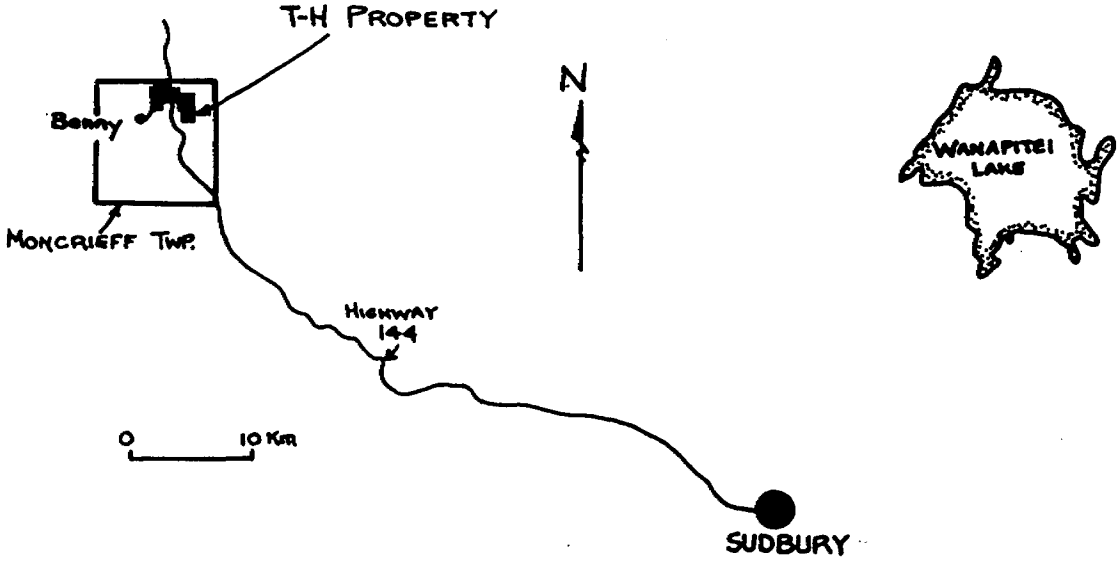

Figure 2

REVISED S.K. 3\89
N.L. Gibson 4/89

III. RESULTS

All three holes (TH-1,2,3) tested one target area. With the exception of a pyrrhotite-pyrite massive sulphide (barren), no significant mineralization was encountered. Table 1, summarizes the drill hole locations and orientations. Detailed logs are attached in Appendix I.

Table I Drill Hole Data

Hole No.	Coordinates	Azimuth	Dip	Length	Casing
TH-1	515W ; 074S	010°	-55°	371.03m	2.13m
TH-2	270W ; 190S	000°	-62°	419.71m	7.32m
TH-3	438W ; 260S	000°	-62°	375.82m	9.14m

IV. RECOMMENDATIONS

Although one specific stratigraphic package was the focus of this drill programme, other targets on the TH Option property warrent trenching and/or diamond drilling.

Michael A. Gray

APPENDIX I

STATEMENT OF QUALIFICATIONS

STATEMENT OF QUALIFICATIONS

I, Michael J. Gray, of Sudbury, Ontario hereby certify that:

1. I graduated from the University of British Columbia with a Bachelor of Science Degree in Geology (1985).

2. I am a geologist employed on a permanent basis by Falconbridge Ltd. of P.O. Box 40, Falconbridge, Ontario.

3. I have been practicing my profession for the past 4 years and have been actively involved in mineral exploration for the past 8 years.

4. I have no financial interest in the claims involved in this report, or in Falconbridge Ltd.

Dated at Falconbridge, Ontario this 11th day of JULY , 1989.

Michael J. Gray

Michael J. Gray
Field Geologist

APPENDIX II

DRILL LOGS

DRILL HOLE NUMBER TH-1

FALCONBRIDGE LTD. EXPLORATION

Project Name: TH OPTION
Project Number: PN 229
Claim Number: 808969
Location: BENNY / CARTIER AREA
Units (F/M) : M
Date Started (MM/DD/YY): 10 / 17 / 88
Date Completed (MM/DD/YY): 10 / 23 / 88

Logged By: Michael J. Gray

Plotting Coords - Grid:
- North:
- East:
- Elev:

Grid Astron. Azimuth: ° ' "
Collar Dip: -55 ° 00 ' 00 "

Alternate Coords - Grid:
- North:
- East:
- Elev:

Collar Astro. Azimuth: 010 ° 00 ' 00 "

Start Depth: 0.00
Final Depth: 371.03

Collar Survey (Y/N): N
Multishot Survey (Y/N): N
RQD Log (Y/N): N
Pulse EM Survey (Y/N): Y
Plugged (Y/N): Y
Contractor: M. Knight Drilling Company Limited
Hole Size: BQ
Casing: 2.13 m LEFT IN
Core Storage: FALCONBRIDGE
UTM Coord.:

Comments:
Wedges At:

DEPTH	TYPE A/L/M/T/G	ASTRONOMIC AZIMUTH °, ', "	DIP	FLAG (OK, DO)	COMMENTS
32.31	A		-52°		
62.81	A		-52°		
93.31	A		-52°		
123.81	A		-52°30'		
151.81	A		-52°		
187.39	A		-52°30'		
213.39	A		-52°		
246.40	A		-52°		
274.39	A		-52°		
304.89	A		-53°		
335.39	A		-52°30'		
367.39	A		—		NO ETCH

DEPTH	TYPE A/L/M/T/G	ASTRONOMIC AZIMUTH°, ', "	DIP	FLAG (OK,DO).	COMMENTS
150.60	T	019° 30° 00°	-51°00	OK	
369.00	T				ROD WON'T REACH BOTTOM

FALCONBRIDGE LIMITED

FROM	TO	ROCK TYPE	COLOUR GRAIN SIZE	TEXTURES AND STRUCTURE	ALTERATION	MINERALIZATION	REMARKS
0	2.13	CASING <<CAS>>					
2.13	32.08	<<SLST>> with minor DACITE TUFF and GABBRO DYKES	M-DK GREY; VF-FG	WEAKLY FOL^{N}, POOR - MODERATELY LAYERED ARG - SLST. LOCALLY NOTE NARROW DTUFS & GOKES. ARG LAYERS RANGE FROM 2mm - >20cm THICK & ARE DENOTED BY CONTRASTS IN COLOUR, GRAIN-SIZE & PORPHYROBLAST DEVELOPMENT.	- VW <1-5mm LOC STRONG CALCITE VEINLETS ± CHL AS SELVAGE - LOC QTZ PATCHES & DISCONT VEINLETS ± PY-PØ, 1-5cm. i) 4.70m c/a 75° 9.93m c/a 80° 13.43m PATCHY		NON CONDUCTIVE LOST WATER @ 8.23m SAO5501 LITHO 26.00 29.00 m BLOCKY CORE @ 6.25m - 18.00m
				2.13-6.01m: ARG/SLST LOC 5% PB, POORLY LAYERED. 6.01-6.12m: GOKE FG c/a 60° 6.12-17.74m: ARG/SLST, POOR-MOD LAYERED, LOC 1-2cm x 5mm PB "DISKS" // FOL'N 17.74-18.14m: DTUF, APHYRIC-VFG MASSIVE c/a 70° 18.14-19.40m: ARG/SLST (SIM TO ABOVE) 19.40-19.57m: VFG GABBRO DYKE? OR CHL-CARB VEIN? c/a 70-80° 19.57-20.53m: DTUF APHYRIC, WITH 15% ARG-SLST MOD-WELL LAYERED SECTIONS 20.53-21.33: GREY VFG GDYK(?) c/a 70°	- LIMONITIC F/C STRONG 2.13-18.00m - W SER (?) - M-M CHL	1-3% PØ-PY LOC 5% QV 2% PØ FG BLEBS 2-3% PØ-PY FG DISS LOC 8% @ 13.43m, TR SPH? TR PØ 1-2% PØ 5-8% PØ TR PY-PØ, LOC 1% PØ AS <1mm STR.	ASSAY SAO5603 12.78-13.53m ASSAY SAO 5602 10.55-11.05 ASSAY SAO 5601 4.12-4.62 ASSAY: SAO5604 19.40-19.57

Hole No. TH-1

FALCONBRIDGE LIMITED

FROM	TO	ROCK TYPE	COLOUR GRAIN SIZE	TEXTURES AND STRUCTURE	ALTERATION	MINERALIZATION	REMARKS
				21.33-25.16 : ARG/SLST MOD LAYERED, 5% PB RICH LAYERS, NOTE 24.40-25.16 POSS DTUF. COMPONENT		1% PY-PB, LOC TR-1% CPY @ 24.20-25.16 ON FRACTURES. NOTE 5-8% PB @ 25.06-25.16m	
				25.16-25.74 : DTUF/STUF APHYRIC, MASSIVE		2% DISS PY-PB	
				25.74-27.51: ARG-SLST (SIM TO ABOVE)	-LOC 5-10cm THICK CARB-CHL + PY-PB VEINS c/A 70-90°	1-2% PY-PB LOC 5-8% PB ASSOC W CARB-CHL VEINS	
				27.51-27.58: VFG GAB DYKE c/A 80°			
				27.58-32.08: ARG-SLST, POOR-MOD LAYERED, INCREASE IN PB BEARING LAYERS, PB RICH NEAR LOWER CONTACT	-MINOR <1cm CARB-CHL VEINS	- <1-2% PB THO LOC 5% PB-PY ASSOC WITH CARB-CHL VEINS - TR-<1% CPY THO ON FRACTURES	

Hole No. TH-1

* CPY IN ARG THROUGH CHECK

FALCONBRIDGE LIMITED

FROM	TO	ROCK TYPE	COLOUR GRAIN SIZE	TEXTURES AND STRUCTURE	ALTERATION	MINERALIZATION	REMARKS
32.08	38.34	<< GDKE >>	M-OK GREEN	MASSIVE, EQUIGRANULAR, GABBRO - DIORITE DYKE.	- VW <1mm-2mm EPI-CALC STR C/A 30-50°	LOC <1-2% PD-PY ALEB ALONG F/C	OUTSTANDING CHILLED MARGINS!
		GABBRO DYKE	F-MG	NOTE SHARP CONTACTS & CHILLED MARGINS; TOP C/A 40° BOT C/A 85°	- W SELECTIVE EP² OF FP TH-O.	ASSOC & EP-CALC VEINLETS	
				32.08 - 32.53 : CHILLED MARGIN, VFG 32.53 - 37.97 : GABBRO, FG 37.97 - 38.34 : CHILLED MARGIN, VFG			
38.34	40.74	<<SLST>>	M GREY VFG	CRUDELY LAYERED, WEAKLY FOLIATED ARG-SLST WITH LOCAL FP-RICH(?) 5-15% BANDS ie) 38.60-39.60 m	NIL	<1-2% DISSEM PD-PY, LOC TR CPY ON F/C	ASSAY SA05605 39.80 - 40.74 m
		SILTSTONE/ ARGILLITE		LOC 10% PORPHYROBLASTS 5-8 mm OVER 5-10 cm SECTIONS ie) 40.50-40.60		39.86 - 40.74 :	
40.74	42.55	<<DTUF>>	LT-M GREY/ GREEN	MOD LOCALLY WELL LAMINATED SILICEOUS TUFFS, DACITE TUFFS, MINOR 1-2cm (3%) CARBONATE, MINOR MAFIC BANDS (1%)	- LOC WISPY 1-5mm MOD SER BANDS // FOLIATION ASSOC & SUS ie) 40.74 - 41.14 - LOC MOD 1mm CALC VEINS C/A 45° (CPY) - MOTTLED PATCHY TEX @ 41.77 - 42.55 (SILICIF?)	1-10% PY-PD TR CPY AS DISSEM & DISSEM BANDS ie) 40.74 - 41.14 m: 5-10% PY-PD AS DISCON DISSEM BANDS 41.14 - 42.55 m: 1-2% PY-PD TR CPY	ASSAY SA05606 40.74 - 41.14 ASSAY SA05607 41.14 - 42.55
		DACITE-SILICEOUS TUFF		LAMS 1mm - 20mm RELATIVELY SHARP MARGINS EXCEPT MOTTLED SECTIONS (MAFIC?) BOT CIC 75°			

FALCONBRIDGE LIMITED

FROM	TO	ROCK TYPE	COLOUR GRAIN SIZE	TEXTURES AND STRUCTURE	ALTERATION	MINERALIZATION	REMARKS
42.55	43.42	<<MASS>> MASSIVE SULPHIDE (MAIN ZONE)	DK GREEN & BRONZE-BROWN	MASSIVE - SEMI MASSIVE PY-PØ IN A BRECCIA (?) INTERVAL THE TOP AND BOTTOM CONTACT AREAS ARE CARBONATE MX ± QTZ FRAGS, WHEREAS THE MASSIVE SUS HAS QTZ & DK GREEN CHLORITIC FRAGS, SULPHIDES POSSIBLY LATE?	- 5-10% QTZ VEIN FRAGS (?) INCLUDED IN MSUS	30-60% F-MG LOC CG PY-PØ SEMI-MASSIVE TIGHTLY DISSEMINATED SULPHIDES. RECRYSTALLIZED (?)	MAIN ZONE INTERSECTION - CONDUCTIVE! STRONG
				42.55-42.66: FG CARB ± 15% 5-20mm QTZ FRAGS SUB A - SUBR		42.55-42.66: 3-5% FG PY-PØ BANDS & DISSEM	ASSAY SA05608 42.55-43.42m
				42.66-43.30: MASSIVE-SEMI MASSIVE PY-PØ (70 PY:30 PØ) ± 10-15% 2-20mm QTZ V FRAGS & 10% 10mm MAFIC (?) FRAGMENTS. ALSO LOC CM MSUS FRAGS.		42.66-43.30: 30-60% FG-CG PY-PØ	
				43.30-43.42: CARB & SILICEOUS TUFF BRECCIATED SIMILAR TO TOP CTC ± MSUS BOT CTC 70°/A SHARP		43.30-43.42: 2% PY-PØ	
43.42	58.89	<<CARB>> CARBONATE UNIT WITH MINOR SILICEOUS TUFF		W FOLIATED (?) CRUDELY-POORLY LOC MOD LAYERED EXHALATIVE CO_3 WITH INTERLAM BANDS OF SILICEOUS / OTUF, PY-PØ, MAFIC (?) CHLORITIC TUFF & LOCALLY CROSSCUT BY NARROW GABBRO DYKES.	- LOC MILKY WHITE QTZ PATCHES / VEINS 5-15cm ie) 45.80-45.89 C/A 60-80 46.22-46.27 ox C/A 70° 46.37-46.41 C/A 80° 46.51-46.60 C/A IRREG 46.81-46.83 C/A 80° 50.44-50.63 C/A IRREG 50.91-50.94 C/A 50° 54.46-54.54 C/A 35° 56.12-56.34 ox C/A 35° 59.42-59.43 C/A 35°	<1-3% FG PY-PØ DISSEMINATED TH-O, LOCALLY 5-15% F LOC MG PY, FG PØ AS DISSEM SEMI MASSIVE PATCHES OR BANDS 5mm-35cm THICK. LOC TRACES OF CPY. SULPHIDE RICH ZONES SOMEWHAT ASSOC ± STRONGLY INTERLAM CARB-STUF IN AREAS OF CONTORTED LAYERING ie) (CONT)	

FALCONBRIDGE LIMITED

FROM	TO	ROCK TYPE	COLOUR GRAIN SIZE	TEXTURES AND STRUCTURE	ALTERATION	MINERALIZATION	REMARKS
				43.42 - 43.68 : INTERLAM SILC - DTUFF (70%) & CARB (30%) c/a 80°		2) 43.42 - 43.68 : 3-5% SUS	
							ASSAY : SA05609 43.42 - 44.42m
				43.68 - 44.48 : CARB FG POORLY LAYERED & 20% STUF LOC MTUF LAMS 2-10mm NOTE POSS 1 REG 3cm THICK GOKE @ 43.90m c/a 70-90°, 44.31 45° c/a c/a 80°		43.68 - 44.15 : 2-3% PY-PO, TR CPY 44.15 - 44.17 : 25% PY-PO BEDDED? c/a 70° 44.17 - 44.42 : 2-3% PY-PO	
				44.48 - 44.83 : CARB FG X-CUT BY FOUR 1-4 cm THICK VFG GOKE'S c/a 60°		1-3% PY-PO LOC 15% PY-PO @ 44.58 - 44.59.	ASSAY : SA5610 44.42 - 45.42
				44.83 - 46.08 : CARB LAMELY LAYERED SECTION << 5% SILC TUFF INTERLAM. c/a 80° (80-70)	= WK CHL FRACTURE COATINGS	44.83 - 46.08 : 2-5% SUS	WARPED LAYERING @ 46.00 m
				46.08 - 50.11 : CARB UNIT & 10-15% INTERLAM DK GREY STUF (?) 1-5mm CONTINUOUS - DISCON LOCALLY OFFSET (47.30m) LAYERS . THESE LAYERS SCRATCH WITH A KNIFE ... ALTN(?) POSS CHL? NOTE MINOR FOLD/WARP AXIS AT 48.45m	= LOC W CHL ON FRACTURES	46.08 - 46.42 : 3% SUS 46.42 - 47.12 : <1-2% PY-PO 47.12 - 47.42 : 3% PY-PO (NOTE 2mm PO LAM" AT @ 47.17 c/a 70°) 47.42 - 47.70 : <1% PY-PO 47.70 - 48.00 : 2-5% PY-PO 48.00 - 49.05 : 1-3% PY-PO 49.05 - 49.55 : 3-8% PY-PO LOC m-CG PO DISSEM PATCHES 49.55 - 50.11 : 2-5% PY-PO LOC 3-5% PY AT 50.07-50.11	ASSAY : SA5611 45.42 - 46.42 ASSAY : SA5612 46.42 - 47.42 ASSAY : SA5613 47.42 - 48.00 ASSAY : SA5614 ; 48.00 - 49.05 ASSAY : SA5615 ; 49.05 - 49.55 ASSAY : SA5616 ; 49.55 - 50.11

Hole No. TH-1

FALCONBRIDGE LIMITED

FROM	TO	ROCK TYPE	COLOUR GRAIN SIZE	TEXTURES AND STRUCTURE	ALTERATION	MINERALIZATION	REMARKS
				50.11 - 50.31 : VFG GOKE TOP C/A 50°, BOT C/A 60° (POSS MAFIC TUFF??)	- CALCITE ± SULPHIDES VEIN?	LOC 8% PY-PO DISS @ 50.16-50.18	NO DISTINCT CHILLED MARGINS
				50.31 - 52.36 : CARB UNIT (C/A 70°) POOR-MOD LAYERED ± <5% 1-5mm STUF LAMS	- W CHL ON F/C	50.31-50.52 : 3-5% PY-PO 50.52-50.80 : <1-1% PY-PO 50.80-51.35 : 3-5% PY-PO NOTE 2cm BAND ± 25% PY-PO @ 51.01 C/A 55°) 51.35-51.80 : 5-8% PY AS DISS STR/BANDS 51.80-52.36 : 1-3% PY-PO	ASSAY: SA5617; 50.11-50.31 ASSAY: SA5618; 50.31-51.35 ASSAY: SA5619; 51.35-51.80 ASSAY: SA5620 51.80-52.36
				52.36-52.66 : DTUF ± STUF BDLY LAYERED ± 5% CHLORITIC TUFF 5mm BANDS, <5% CARB NOTE DISCONT NATURE OF C/A 80° LAYERS.		3-5% AS FG DISS.	ASSAY: SA5621 52.36-52.66
				52.66 - 58.89 : CARB UNIT ± <5-5% 1-5mm MED GREY STUF LAMINATIONS. NOTE A MOTTLED CARB UNIT SECTION ± WHITE VAGUELY OUTLINED 4-15mm ROUND PATCHES @ 53.70-57.00m APPROXIMATELY, ± 1-3mm STYLOLITE BANDS LOC STUF 5-10cm LAYER @ 55.80-55.95 ASSOC ± SULPHIDES.	- VW-W CHL ON FRAC COATINGS	52.66-53.70 : 1-3% PY-PO 53.70-54.70 : <1-1% PY-PO, TR CPY @ 54.55 ± QV 54.70-55.80 : 1-3% PY-PO 55.80-56.12 : 10-20% PY-PO MATCHES/LAYERS 56.12-58.89 : 1-3% PY-PO LOC 5% @ 56.24-56.27	ASSAY: SA5622; 52.66-53.70 ASSAY: SA5623; 53.70-54.70 ASSAY: SA5624; 54.70-55.80 ASSAY: SA5625; 55.80-56.12 ASSAY: SA5626; 56.12-56.80 WITH: SA5562; 57.80-57.80 ASSAY: SA5627; 57.80-58.89

Hole No. TH-1

FALCONBRIDGE LIMITED

FROM	TO	ROCK TYPE	COLOUR GRAIN SIZE	TEXTURES AND STRUCTURE	ALTERATION	MINERALIZATION	REMARKS
58.89	60.53	<<DTUF>> DACITE TUFF	MED GREY-GREEN	CRUDE-POORLY LAYERED (LOC MOD) DTUF. RAPID CHANGE TO TUFF FROM & TO CARB ON EITHER CONTACT. TOP CTC C/A 85° BOT CTC C/A 70° LAYERING C/A 70°	- LOC QTZ-EP 5mm VEIN - HAIRLIKE <1mm CALCITE INCONSPICUOUS VEINLETS TH-O.	2-3% FG DISSEM PY-PO TH-O	ASSAY: SA5628; 58.89-59.80 ASSAY: SA5629; 59.80-60.53
60.53	65.88	<<CARB>> CARBONATE UNIT minor GABBRO DYKES	LT GREY & M GREY	POORLY BANDED / LAYERED FG CARB UNIT C <10% DTUF(.cm)-4mm THICK INTERLAMINATIONS INCLUDING DISCONT, CONTORTED AND MICROFAULTED LAYERS. LOC SVS BANDS. LAYERING C/A 85° LOC POSS STYLOLITES. BOT CTC C/A 80° NOTE: GOKES @ : 61.45-61.67; C/A 70-55° 61.90-62.44; C/A 80° 63.51-63.70; C/A 85° 64.58-64.73; C/A 85°	- LOC 1-3mm CALC VEINLETS	1-3% PY-PO LOC 35%, AS DISSEM & DISSEM BANDS ie) 60.53-60.75: 1% PY-PO 60.75-60.85: 5% PY-PO 60.85-61.45: 1% PY-PO 61.45-61.67: 1-2% PY-PO 61.67-61.90: 1% PY-PO 61.90-62.44: 1% PY-PO 62.44-63.45: 1% PY-PO 63.45-64.20: 1% PY-PO 64.20-64.40: 3-5% PY-PO 64.40-64.58: 35% PY-PO 64.58-64.73: 3-5% PY-PO 64.73-65.88: 3% PY-PO	(T.S) ASSAY: SA5630; 60.53-61.30 ASSAY: SA5631; 62.44-63.45 ASSAY: SA5632; 63.45-64.40 ASSAY: SA5633; 64.40-64.58 SA5634 ASSAY: SA5634; 64.58-65.88 102.52 - 103.22

Hole No. TH-1

FALCONBRIDGE LIMITED

FROM	TO	ROCK TYPE	COLOUR GRAIN SIZE	TEXTURES AND STRUCTURE	ALTERATION	MINERALIZATION	REMARKS
65.88	75.77	<<DTUF>> (DACITE-SILICEOUS TUFF, LOCALLY MINOR GABBRO DYKES	MED-LT GREY E a GREEN CAST	RELATIVELY MASSIVE LOOKING CRUDELY LOC POORLY LAYERED STUF'' & DTUF. RAPID SHARP COMP^{N} CHANG FROM ABOVE CARB UNIT. APHANITIC, HARD, LOC FP PHYRIC? APPEARS MOTTLED @ 74.00-74.75m & POORLY DEFINED DIKENDS (?) BOT CTC C/A 50° LAYERING C/A 75 NOTE DISTINCT CHANGE TO LT GREY FP PHYRIC @ 73.8 -75.77 LOC v. CRUDE LAYING BASED ON CHANGE IN FP CONTENT OTHERWISE MASSIVE. (FP <1-2mm POOR OUTLINES 3-5%)	-N CHL AS FRACTURE COATINGS - VW <1-2mm LOC 2cm THICK QTZ±EPI VEINLETS C/A 20-60° - BLEACHED MAFIC(?) BANDS OR SER^{E} BEIGE LAMS LOC ie) 69.25m	<1-1% LOC 3-5% PY-PO DISSEM MAINLY ALONG FRACTURES. ie) 65.88-66.16: 3-5% PY-PO 66.16-75.77: <1-2% PY-PO	QTZ PHENOS?? LITHO: SA5503: 69.00-72.00
75.77	79.11	FAULT ZONE (FILLED BY GOUGE & DTUF) <<FLT>>	MED GREEN & LT GREY	ZONE IS BOUNDED BY MASSIVE GOUGE'S AND HAS INTERNAL NARROW GOUGE ZONES & BRECCIATED DTUF'' SECTIONS. THE DTUF IS FP PHYRIC THE SAME AS 73.18-75.11 ABOVE. 75.11-76.38: GOUGE, F.VFG 76.38-76.50: SHEARED GOUGE, MINOR GOUGE 76.50-76.61: GOUGE CTC C/A 70° 76.61-77.13: DTUF, BRECCIATED & SILICIFIED PATCHES? 77.13-77.33: GOUGE 77.33-78.78: DTUF, LOC IN SITU BRECCIATION 78.78-79.11: GOUGE BOT CTC C/A IRREG	- S. FRACT NETWORK & CHL <1-1mm COATINGS (SIMILAR TO MAIN EAST TRENCH EXTENTION) - W-M WISPY BEIGE SER(?) SELVEN ALONG FOL'N(m) BETW 77.90-78.75	TR-2% PY AS DISSEM ON FRAC & LOC <1mm PY-PO STR. ie) 75.77-77.00: TR-<1% PY 77.00-79.11: 1-2% PY-PO	NOTE: THIS FAULT LOOKS LIKE THE SAME ZONE NOTED ON SURFACE IN TRENCH-1 '88

Hole No. TH-1

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LITHO

FALCONBRIDGE LIMITED

FROM	TO	ROCK TYPE	COLOUR GRAIN SIZE	TEXTURES AND STRUCTURE	ALTERATION	MINERALIZATION	REMARKS
79.11	87.42	≪DMFL≫ MASSIVE DACITE FLOW OR TUFF(?) minor GABBRO DYKES	LT-MED GREY ± A GREENISH CAST APH - MX M - PHENOS	MASSIVE FP DACITIC FLOW (?) OR POSS TUFF. MX IS APH LT-MED GREY SILICEOUS. PHENOS (FELDSPARS) 3-5% WH - LT GREY <1-2mm (1mm) TH-O. FP ARE FRESH BUT HAVE VAGUE, FUZZY OUTLINES (DUE TO SILIF^{N} OF MX??) SER ALT^{N} (WISPY) IMPOSES A PSEUDO LAYERED LOOK IN PLACES. FLOW-TOP BRECCIA (?) POSSIBLY AT 79.11 - 81.80 POORLY DEFINED BUT 5% WHITISH - BUFF 5-10cm FRAGS NOTED MINOR FG QDKES @ 81.71 - 81.95 c/a 80°? 82.04 - 82.14 c/a 75° 82.81 - 83.15 c/a 60-70° 87.42 - 87.63 NOTE NARROW 3-8mm MAFIC PHYRIC (1mm) WISPY DYKELETS WHICH LOCALLY BRANCH & DEFINITELY X-CUT THE DMFL ~ 2-5% TH-O INTERVAL c/a 70-25°	- m-s <1-1mm CHL ± SER CONT-DISCONTINUOUS COATINGS TH-O. SOME CHL STR HAVE SER ENV ie) 79.75 - m SER (LT GREEN-WHITISH) AS WISPY <1mm - 2cm BANDS (2cm WHEN A NUMBER OF FRAC INVOLVED). // TO SUB // LAYERING ie) - loc MILKY WH 2-20mm QTZ VEIN (1/2m c/a 70°)	TR-1% PY-PO MAINLY DISSEM ON FRAC, ALSO AS PO <1-1mm STRICH @ 87.09 c/a 40° NOTE TR CPY @ 81.45m	TS ~ 89.00m CHECK FOR TOUR NOTE: IRREGULAR DYKELETS ± MAFIC PHENOS & DIFFUSE CONTACTS
87.42	87.63	FAULT-GOUGE ≪FLT≫	DK GREEN FG	CHLORITIC SHEARED GOUGE. SHEAR/FOL'N 30° TOP CTC 30° BOT CTC 30°	- s PERV CHL, MINOR GOUGE	<1% PY-PO	

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FALCONBRIDGE LIMITED

FROM	TO	ROCK TYPE	COLOUR GRAIN SIZE	TEXTURES AND STRUCTURE	ALTERATION	MINERALIZATION	REMARKS
87.63	92.79	DMFL OR DTUF (MINOR GOKE) <<DMFL>>	LT-MED GREY	MASSIVE FIP DACITIC FLOW (?) OR POSS TUFF. SIMILAR TO 79.11-87.42 WISPY MAFIC PHYRIC DYKELETS ARE NOT A CONSPICUOUS AS PREVIOUS DMFL INTERVAL, ~ 2% OF THIS INTERVAL BOT CTC ~45° NOTE GOKE @ 92.39-92.64m C/A 75°	- SIMILAR TO 79.11-87.42 - NOTE GOOD DEVEL "STRONG" OF CAL STWK @ 88.68-89.20	TR-1% PY-PO DISSEM NOTE STR PO-CHL @ 89.05 C/A 25°	LITH: SA5504 87.80-90.80m
92.79	110.24	<<CARB>> CARBONATE UNIT minor GABBRO DYKES	LT GREY TO GREEN ALSO DK GREY-BROWN (STUF)	POORLY LAYERED CARBONATE UNIT WITH NARROW INTERVALS OF SILICEOUS TUFF. THE CARB UNIT IS FG AND RELATIVELY MASSIVE WITH WISPY MAFIC TUFFACEOUS INTERLAMINATIONS THAT AND STUF INTERLAMINATIONS THAT HELP DEFINE LAYERING. (1-3mm) LAYERS VARY IN THICKNESS WITHIN A GIVEN LAYER AND MOST ARE DISCONTINUOUS. STUF LAYERS ARE POORLY DEFINED, MAY BE JUST A COMPONENT TO THE EXHAL CARB PCT ON THE SEAFLOOR.		NVS TO LOCALLY 1-2% PY-PO	LITHOGEOCHEM: SA05505 102.50-106.50
				92.79-93.44: MOD LAYERED STUF (65%), CARB (20%) AND STUF (15%); LAYERING C/A 50-55° LOCAL MICROFAULTED LAYERS AND GENTLY FOLDED LAYERS @ 93.30m BOT CTC ~80°	- W 1-4mm QTZ VEINS - M <1mm CALC STR IRREG NOTE TENSION GASHES IN MAFIC TUFF FILLED BY UNDERLYING CARB LAYER, REMOBILIZED (?)	1-2% DISS PY-PO	

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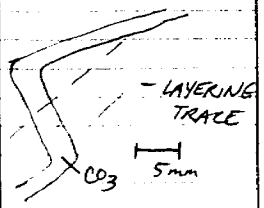
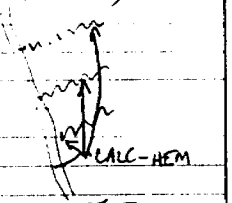
FALCONBRIDGE LIMITED

FROM	TO	ROCK TYPE	COLOUR GRAIN SIZE	TEXTURES AND STRUCTURE	ALTERATION	MINERALIZATION	REMARKS
				93.44 - 93.92 : VFG GDKE, MASSIVE BDT CTC ~ 75°	- MINOR CALC VEINS & PATCHES	1-2% PY-PO ON FRACTURES	
				93.92 - 94.18 : MOD INTERLAM MAFIC TUFF (30%), S-DTUF (50% ≤ UP TO 8mm THICK) CARB (20%) TUFF. NOTE LOCAL 1cm OFFSET OF LAYERS LAYERING C/A 80°	- LOC 1-5mm CALC/CARB VEINLETS X-CUT LAYERING	TR PY ON FRAC	
				94.18 - 96.37 : PORLY INTERLAM CARB (80%), MTUF (10%) STUF (5%). NOTE MAFIC TUFF COMPONENT DECREASES DOWN THIS INTERVAL TO <5%. LOC MOD LAM. LOWER CTC C/A 80° LAYERING C/A 80°	- VW CALC 2mm VEINLETS NOTE @ 95.00 "LADDER STEPPING" OF CALC BETWEEN LAYERS. SEE REMARKS.	NVS - TR PY	
				96.37 - 96.61 : VFG MASSIVE GDKE BDT CTC 70°	- LOC CALC + EPI VEINS	TR PY	
				96.61 - 97.19 : MOD LOC WELL LAMINATED MTUF (??) (60%), CARB (35%), STUF (5%). LAYERS ARE CONTORTED - FOLDED & GENERALLY CONTINUOUS	- W IRREG 1-3mm CALC±EP VEINLETS	NVS	
				97.19 - 109.16 : CARB (90%) WITH MTUF (8%) AND STUF (2%) <1 - 10mm (3mm) LAMINATIONS. POOR - MOD LAYERED OVERALL. C/A LAYERING ~80° MTUF IS MIXED WITH CARBONATE "CALCAREOUS MAFIC TUFF". NOTE STRANGE <1mm BLK XL's / PHENOS (?), ASSOCIATED WITH DYKES (?) @ 99.96m	- W < 1-3mm CALC± EP VEINLETS.	NVS - TR PY NOTE 102.52 - 103.22 WHOLE HEM STAINED CARBONATE BANDS / CX's FROM CARB VEINS. AT FIRST APPEARED TO BE SPHALERITE. 5% HEM STAINING OVERALL	ASSAY: SA5634; 102.52 - 103.22  LITHO: SA5505; 105.50 - 108.50

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FALCONBRIDGE LIMITED

FROM	TO	ROCK TYPE	COLOUR GRAIN SIZE	TEXTURES AND STRUCTURE	ALTERATION	MINERALIZATION	REMARKS
				109.16 - 109.73: M INTERLAM STUF (?) (90%), CARB (5% IN UP TO 8mm LAYERS), GREY BANDS (5%) (V SOFT Ē BLK CRYSTALS / PHENOS?) LAYERING C/A 70° STUF COULD BE TUFFACEOUS ARGILLITE? TOP CTC 65° BOT CTC ~80°	- LOC 5mm QTZ VEINS AT 109.40m	NVS - LOC TR PØ	COULD THE GREY-BROWN BE TUFFACEOUS ARGILLITE?
				109.73 - 110.24: MOD INTERLAM CARB (80%), MTUF (5% MIXED IN), STUF (15%) MED GREY. MOST LAYERS DISCONTINUOUS <1-3mm THICK. LAYERING C/A 85-75° BOT CTC C/A 70-80	- VW CALC 2mm VEINLETS	TR PØ	
				BOTTOM CONTACT 5cm 50% CARB / 50% TUF Ē DISCONT LAYERS			
110.24	112.74	<<DOKE>> DACITE DYKE	MED GREY, APH MX PHENOS <F	MASSIVE DACITE F ± QP DYKE(?), MASSIVE, V. HARD. MX IS APHANITIC, SILICEOUS. PHENOS ARE ~15% <1-1mm FELDSPAR (FRESH), POSS 2-3% GREY-WH QTZ EYES BUT DIFFICULT TO TELL. BOT CTC = 75° CROSSCUT BY 2 GDKE 's AND A QTZ VEIN	- W HAIRLIKE <1mm CALC STR C/A 5-35° - LOCAL MILKY WH QTZ-CHL ± SUS VEINS ie) 112.43; 4mm 111.28 - 111.64m	<1-2% PY-PØ AS FG DISSEM.	FEEDER TO OVERLYING FLOW @ - m??? * PIECE FOR CORE LIBRARY / T.S. CHECK FOR TOUR
				110.24 - 111.28: R-DOKE BOT CTC 40° 111.28 - 111.64: QTZ VEIN Ē 5% CHL BOT CTC 35° 111.64 - 111.85: RDOKE BOT CTC 75° 111.85 - 112.29: GDKE, FG BOT CTC 80° 112.29 - 112.53: RDOKE BOT CTC 75°	NOTE MSS DISCONCORDANT STR Ē 5mm BLEACHED ENVELOPES. C/A 40°	<1-1% PY-PØ 1-2% PY-PØ 1% PY-PØ	

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FALCONBRIDGE LIMITED

FROM	TO	ROCK TYPE	COLOUR GRAIN SIZE	TEXTURES AND STRUCTURE	ALTERATION	MINERALIZATION	REMARKS
112.74	116.95	<<ATUF>>	MED GREEN/	RANGE MOD-WELL LAMINATED (1-30mm) ANDESITIC-DACITIC TUFFS TO CRUDELY LAYERED ULTRAFINE	-VW 1-2mm CALC ±EP STR c/a 20-80°	<1% PY-PO IN TUFFS, LOC TR CPY IN GOKE.	"ULTRA FINE TUFF"
		ANDESITE-DACITE TUFF	MED-DK GREY, VFG	TUFFS, MINOR STUF & CARB TOWARD LOWER CONTACT). LAYERING c/a 70°	± 5-15mm BLEACHED ENV?(?) - W PERV CHL/SER TH-0		TS @ 115.30 OF POSS ASH BED ± TOURMALINE CRYSTALS.
				MAINLY APHYRIC TUFFS, LOCALLY FINELY FP PHYRIC	THE TUFFS		
				114.15			
				NOTE: BLK ACICULAR CX'S IN LT GREY 1-4mm LAYERS ⇒ TOUR?			
				116.[illegible]			
				BOT CTC GRADATIONAL ~c/a 80°			
				112.74 - 113.06: A-BTUF OR GOKE? WEAKLY MAFIC PHYRIC BOT CTC 80°			
				113.06 - 113.72: A-DTUF MOD-POORLY LAYERED c/a 75° BOT c/c 80°	NOTE POSS BLEACHED DISCORDANT ENVELOPES (?)		
				113.72 - 113.95: GOKE, MASSIVE VFG			
				113.95 - 115.56: MOD - WELL INTERLAM A-DTUF (9 : 1) WITH 2% STUF LAYERS, 2% FP PHYRIC LAYERS (5mm) AND 1% LOC GREY TUFF ± 3-5% ACICULAR <1 x 2mm BLK CRYSTALS (TOUR?) LAY c/a 70°			
				115.56 - 116.11: CRUDE - POORLY LAM D-ATUF ULTRAFINE TUFFS ~~BOT CTC 80°~~			
				116.11 - 116.30: MOD LAM DAC-AND TUFFS BOT CTC 80°			
				116.30 - 116.71: MASSIVE FG GOKE BOT CTC 85°		1% PY-PO, TR CPY	
				116.71 - 116.95: MOD LAM D-ATUF (80%) WITH MINOR STUF (5%) AND CARB (15%) LAYERING 80°			

FALCONBRIDGE LIMITED

FROM	TO	ROCK TYPE	COLOUR GRAIN SIZE	TEXTURES AND STRUCTURE	ALTERATION	MINERALIZATION	REMARKS
116.95	117.48	<<CARB>> CARBONATE UNIT minor GABBRO DYKES	LT GREY ± GREEN HUE, FG	POORLY INTERLAM CARB (85% FG, MASSIVE), 5% D-STUF & 10% ATUF. NOTE GOKE AT 117.13-117.28 ± IREG CONTACTS (APPEAR TO HAVE CORRODED THE CARB UNIT) BOT CTC 65-75°	- LOC QTZ VEIN/PATCH @ 117.71, 2cm C/A 70°	TR - <1% PØ AS BLEBS WITHIN A 1mm CALC ± CHL±EPI FRAC.	
117.48	119.60	<<DTUF>> DACITE-SILICEOUS TUFF minor GABBRO DYKES	M-LT-DK GREY, APH-VFG	MOD-WELL LAYERED STUF-DTUF (85%), LAM-ATUF (5%) AND CARB (? 10% ? PASS VEINS) NOTE POORLY DEFINED FELDSPAR PHYRIC LAYERS. BOT CTC 65° 117.48-117.72: D-STUF, MINOR CARB, LAYERING 65° BOT CTC 70° 117.72-118.76: VFG MASSIVE GOKE, BOT CTC 50° 118.76-118.80: D-STUF 118.80-118.88: MASSIVE VFG GOKE BOT CTC 80° 118.88-119.60: D-STUF MOD LAMINATED LAYERING C/A 75°	- M-LOC 5 1-2mm CALC STR SUB // LAYERING (PASS LAYERS OF CARB ?)	1% DISSEM FG PY-PØ TH-O, TR CPY LOC 3% PY-PØ IN GOKE -3% PY-PØ AS STR -TR CPY	119.27
119.60	121.01	<< GOKE >> GABBRO DYKE	DK GREEN VFG	MASSIVE VFG GOKE BOT CTC 75°	- W-M 1-2mm CALC STR C/A 20-40°	1% PØ-PY ASSOC ± CALC STR.	NON MAGNETIC

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FALCONBRIDGE LIMITED

FROM	TO	ROCK TYPE	COLOUR GRAIN SIZE	TEXTURES AND STRUCTURE	ALTERATION	MINERALIZATION	REMARKS
121.01	126.13	«DTUF» DACITE-ANDESITE TUFF, minor CARBONATE UNIT	LT-MGREY TO DK BR-GREY. APH, LOC F PHENOS	VARIABLY POOR-WELL LAMINATED A-DTUF, STUF, MINOR CARB UNIT INTERLAMS. POSSIBLE FP PHYRIC DACITE MASSIVE SECTION IS A DYKE OR FLOW? ([illegible] RICH !!!) LAYERING C/A 70-80 BOT CC 65	- VARIABLE W LOC [illegible] CALC VEINS	TR-1% PO, LOC 2% PO, TR CPY. SUS AS DISSEM FG GRAINS & BLEBS	NOTE ANDESITIC TUFF IS GRAINISH, QUITE POSSIBLY A TUFFITE?
				121.01-121.76 m: MODERATELY INTERLAMINATED ATUF (50%), CARB (50%). TUFF LAYERS CONTINUOUS-DISCONTINUOUS. LAYERING C/A 65°			
				121.76-122.76 m: CRUDELY - POORLY LAYERED [illegible] ANDESITIC TUFF (?) WITH 5% CARB UNIT "SQUEEZED" ALONG LAYERING AND FOLDED? BOT CTC C/A 40°	- LATE CALC STRINGERS CROSS-CUT CARB UNIT		
				122.76-123.07 m: VFG DYKE, MASSIVE BOT CTC STEPPED C/A 50°			
				123.07-124.54 m: MASSIVE LT-MED GREY FELDSPAR PHYRIC (3-5%, <1-1mm) DACITE TUFF?? OR DYKE OR FLOW, LOCALLY BANDED NEAR THE TOP OF THE SECTION (FLOW BANDING? OR LAYERING). NOTE 2% DISSEM BLK TOURMALINE GRAINS (<1×1mm TO 1×10mm) TH-O SECTION. GRAIN MAINLY ORIENTATED // WEAK FOLIATION. BOT CTC 80° SHARP	- LOC WISPY SER ALONG FRACTURES.	TR PY-PO	[illegible] 55506 123.07-124.54m (TS)

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FALCONBRIDGE LIMITED

FROM	TO	ROCK TYPE	COLOUR GRAIN SIZE	TEXTURES AND STRUCTURE	ALTERATION	MINERALIZATION	REMARKS
				124.54 – 126.25m: WELL INTERLAMINATED DTUF (60%) STUF (30%), CARB (5-10%). 1-10mm LAMS, AVE 2-4mm LAYERING c/A 75°		LOC TR CPY	
126.25	137.77	GABBRO – SYENITE DYKE (MULTI PHASE) <<GDKE>>	[illegible] BLACK – DK GREEN M-VCG	MASSIVE ZONED GABBRO(?) – SYENITE(?) DYKE. THE DYKE HAS 4 DISTINCT PHASES & IS CUT BY BX ZONES/DYKES(?). CONTACTS BETWEEN PHASES ARE TRANSITIONAL AND MAY OR MAY NOT BE COMPOSITIONALLY DIFFERENT. NOTE S-DTUF XENOLITHS ON UPPER CTC. PHASES INCLUDE i) MEGA FP(?) PORPHYRITIC PHASE ii) MELANOCRATIC MG DIORITE iii) CG-PEGMATITIC AMPH-BI ± CARB SYENODIORITE iv) PX PHYRIC MG GABBRO	– VW 1-3mm CALC VEINS c/A 30-60° – LOC 2-10mm QTZ VEINS c/A 25°	NVS – 3% PY AS F-CG DISSEMINATED [illegible] PATCHY STRINGERS ± TR-2% FG PO AS GRAINS & BLEBS. LOCALLY NOTE TR CPY & TR SPH.	HLG IMPRESSION IS A "CARBONATITE RELATED DYKE"
				126.25 – 126.83m: FG W FOLIATED (?) GABBRO c DTUF 3-10cm XENOLITHS	– W-M 1mm CALC STR	126.25 – 126.58: <1-2% PY, 1% PO 126.58 – 126.83: 3-5% PY, <1% PO	ASSAY: SA5635 126.25 – 127.04
				126.83 – 127.04: MELANOCRATIC MG MOTTLED DIORITE 35% MAFICS, 65% FP? TOP CTC c/A 50° BOT CTC c/A 60°	– LOC M <1mm CALC STR	1-2% PY, 1% PO	
				127.04 – 128.16: GLOMERO/MEGA FP PORPHYRITIC GABBRO, 75% MAFICS F-MG, 5% 6-10mm FP RAGGED PHENOS (GLOMEROCRYSTS?) AT START OF INTERVAL, GRADING TO EQUIGRAN TOWARD THE BOTTOM. MAFICS CHL ≥ AMPH(?)		NVS IN PORPHYRITIC SECTION, 2-3% PY – 1% PO IN EQUIGRAN	LITHO: SA5507; 127.04 – 127.29 ASSAY: SA5636; 127.29 – 128.16

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FALCONBRIDGE LIMITED

FROM	TO	ROCK TYPE	COLOUR GRAIN SIZE	TEXTURES AND STRUCTURE	ALTERATION	MINERALIZATION	REMARKS
				128.16 – 131.20 : MELANOCRATIC WH & BROWN-GREEN MG DIORITE (SYENITIC?) · MAFICS 25- LOC 50% AMPH OR CHL² BIOTITE?) WEAK FIZZ (HCL) IN GROUNDMASS SECTION BECOMES PROGRESSIVELY COARSER & MORE MAFIC IN THE BOTTOM 75cm		2-3% LOC 5% F-MG PY ALONG WITH 1-2% PO AND TR CPY	ASSAY: SA5637 ; 128.16 – 129.44m LITHO: SA5638 ; 129.44 – 129.94m ASSAY: SA5638 ; 129.94 – 130.94m
				131.20 – 131.56 : CG - SUBPEGMATITIC MELANOCRATIC DIORITE - SYENITE E 3-5% CO_3 IN THE MX. MAFICS 30% 2x10mm AMPH(?) AND 5% BIOTITE / PHLOGOPITE PSEUDOMORPHING AMP?. NOTE WHITISH FP(?) GM E CO_3 HAS A PINKISH HUE.	- SELECTIVE CHL² OF THE MAFICS	3% PY, TR PO	ASSAY: SA5639 ; 130.94 – 131.56m
				131.56 – 131.88 : NARROW BX ZONE E 15% ROUNDED - SUBROUNDED 2-12mm WHITE CARBONATE FRAGS IN A GREENISH CHLORITIC MX E BROKEN(?) MAFIC PHENOS	- FRAGS ARE CALCITE. REPLACED?	NVS	ASSAY: SA5640 ; 131.56 – 131.88
				131.88 – 132.04 : VFG DYKE – BX – SHEAR FILLED E CARBONATE VEINS	- 5 CALCITE VEINS IRREG, // SHEAR C/A 65°	<1% M-CG PY E TR SPH (<1%) ; SPANS PURPLE-BRWN NEAR VFG DYKE(?) MARGIN	ASSAY: SA5641 ; 131.88 – 132.04
				132.04 – 135.75 : PEGMATITIC - CG DIORITE - SYENITE E 20% AMPH (-), 10% BIOTITE THINS 65% FP (?) AND 5% CALCITE IN THE GM.		132.04 – 132.48 : 3-5% PY, TR SPH 132.48 – 133.48 : 3-5 LOC 8% PY TR PO 133.48 – 134.48 : 2-5% PY, 4% PO TR CPY 134.48 – 135.75 : 4-1% PY-PO	ASSAY : SA5642 ; 132.04 – 132.48 ASSAY : SA5643 ; 132.48 – 133.48 ASSAY : SA5644 ; 133.48 – 134.48 LITHO : SA5645 ; 134.48 – 134.88 ASSAY : SA5645 ; 134.88 – 135.75

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FALCONBRIDGE LIMITED

FROM	TO	ROCK TYPE	COLOUR GRAIN SIZE	TEXTURES AND STRUCTURE	ALTERATION	MINERALIZATION	REMARKS
				135.75-137.77: PX PHYRIC GABBRO PHASE. 80% MAFICS, 15-20% BLK-DK GREEN 2mm STUBBY PHENOS OF PX. GM IS FG CHLORITIC & 10% CALCAREOUS. BAT CTC 65-70°	- W 1-5mm CALC VEINLETS - CARB ALTN OF GM??	NVS - <1% PY, PO LOC 2% PY, < 1% PO AT LOWER CTC 10cm	ASSAY: SA5646; 135.75-136.95 LITH: SA5510; 136.95-137.31 ASSAY: SA5647; 137.31-137.77
137.77	141.53	<<ATUF>> ANDESITE & INTERLAMINATED CARBONATE UNIT	DK GREEN + LT GREY-GREEN	INTERLAMINATED ANDESITE TUFF & CARBONATE UNIT	- W CHL - M CALC 1-2mm VEINLETS	TR PY-PO	
141.53	143.51	<<GDKE>> GABBRO DYKE	DK GREEN VFG	MASSIVE, EQUIGRANULAR	- NIL	- TR PY-PO	
143.51	148.43	<<ATUF>> ANDESITE TUFF WITH MINOR INTERLAM SILICEOUS TUFF & CARBONATE UNIT	DK GREEN - LT GREY	MOD WELL LAMINATED. LAMINA C/A 70°	- W-M CALC VEINLETS <2mm - W CHL	- <1% PY-PO	

FALCONBRIDGE LIMITED

FROM	TO	ROCK TYPE	COLOUR GRAIN SIZE	TEXTURES AND STRUCTURE	ALTERATION	MINERALIZATION	REMARKS
148.43	149.16	<<GDKE>> GABBRO DYKE	DK GREEN VF-FG	MASSIVE	NIL	1% PO	
149.16	150.06	<<CARB>> CARBONATE UNIT min/ SILICEOUS TUFF		INTERLAM CARBONATE UNIT WITH MINOR SILICEOUS TUFF & 15% BROKEN, DISRUPTED LAYERS	-w CALC 1-2mm STR	<1% PY-PO	
150.06	152.92	<<STUF>> SILICEOUS TUFF MINOR CARBONATE UNIT	LT-MED GREY	INTERLAM, WELL LAYERED <5% CARBONATE UNIT	-m CALC STR <2mm	<1% PY-PO	
152.92	153.76	<<GDKE>> GABBRO DYKE	DK GREEN	MASSIVE	-NIL	TR PY-PO	
153.76	155.84	<<ATUF-CARB>> ANDESITE TUFF WITH CARBONATE LAYERS	DK GREEN & LT GREY	INTERLAM, MOD LAMINATED 40% CARBONATE UNIT	-w-m CALC STR 2mm	TR PY	

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FALCONBRIDGE LIMITED

FROM	TO	ROCK TYPE	COLOUR GRAIN SIZE	TEXTURES AND STRUCTURE	ALTERATION	MINERALIZATION	REMARKS
155.84	156.93	<<GOKE>> GABBRO DYKE	DK GREEN VFG	MASSIVE GABBRO DYKE	NIL	<1% PY	
156.93	171.81	<<DTUF>> DACITE TUFF	LT-M GREY	CRUDE-POORLY LAYERED FP PHYRIC DACITE TUFF	- LOC M QV 2mm	TR PY-PO	
171.81	173.13	<ATUF-CARB>> ANDESITE TUFF WITH CARBONATE UNIT INTERLAM	DK GREEN -LT GREY	INTERLAM TUFF & CARBONATE UNIT		TR PY	

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FALCONBRIDGE LIMITED

FROM	TO	ROCK TYPE	COLOUR GRAIN SIZE	TEXTURES AND STRUCTURE	ALTERATION	MINERALIZATION	REMARKS
173.13	173.86	<<GDKE>> GABBRO DYKE	DK GREEN FG	MASSIVE, EQUIGRAN	NIL	TR PD-PY	
173.86	183.88	<<ATUF-DTUF>> INTERLAM ANDESITE & DACITE TUFF	DK-M GREY	POORLY LAMINATED, LOC FELDSPAR PHYRIC(?) 1% CARBONATE UNIT LAYERS	- STRONG (1/3cm) CALC VEINS // - SUB // LAYERING	NVS	
183.88	189.68	<<DTUF>> DACITE-SILICEOUS TUFF	LT GREY	POOR - MOD. LAMINATED, MINOR ANDESITE TUFF WITH DACITE-SILICEOUS TUFF - APHYRIC	- M LOC STR CALC VEINLETS	NVS	

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FALCONBRIDGE LIMITED

FROM	TO	ROCK TYPE	COLOUR GRAIN SIZE	TEXTURES AND STRUCTURE	ALTERATION	MINERALIZATION	REMARKS
189.68	190.55	<<GDKE>> GABBRO DYKE	m-DK GREEN	MASSIVE BOT CTC C/A 70°	NIL	NVS	
190.55	192.13	<<STUF-DTUF>> SILICEOUS-DACITE TUFF	LT GREY	SIMILAR TO 183.88 - 189.68	- LOC M CALC VEINLETS	NVS	
192.13	213.54	<<ATUF>> ANDESITE TUFF WITH MINOR INTERLAM CARBONATE UNIT	M GREEN GREY	MOD - WELL LAMINATED ANDESITE TUFF MINOR CARBONATE UNIT & DACITE-SILICEOUS TUFF	- LOC M CALC VEINS	NVS	CORE DROPPED 193.28 - 194.21

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FALCONBRIDGE LIMITED

FROM	TO	ROCK TYPE	COLOUR GRAIN SIZE	TEXTURES AND STRUCTURE	ALTERATION	MINERALIZATION	REMARKS
213.54	214.42	<<GDKE>> GABBRO DIKE	DK GREEN VFG	MASSIVE	NIL	NVS	
214.42	239.13	<<ATUF>> ~~DACITE~~ ANDESITE TUFF, MINOR DACITE TUFF	M-LT GREEN/GREY	INTERLAM WITH AN INCREASING FELSIC COMPONENT ~~THE~~ DOWN HOLE. MINOR CARBONATE UNIT, CARBONATE UNIT LOST @ 215m	-W LOC M CALC VEINS ± EPI	NVS	

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FALCONBRIDGE LIMITED

FROM	TO	ROCK TYPE	COLOUR GRAIN SIZE	TEXTURES AND STRUCTURE	ALTERATION	MINERALIZATION	REMARKS
246.34	296.54	⟸MDP⟹, BIOTITE PHYRIC DYKE, WITH MINOR GABBRO DYKES	MK GREY-GREEN-BROWN VF-MG	VARIABLY TECTONIZED MAFIC BIOTITE PHYRIC DYKE (?). MASSIVE TO STRONGLY-MOD FOLIATED/SHEARED, LOCALLY CUT BY FG GOUGE (?) FAULT BOT ETC C/A 70° NOTE FAULT GOUGE @ 246.34 - 248.72m 272.95 - 274.58: MASSIVE - WEAKLY FOLIATED, WEAKLY BIOTITE PHYRIC (10-15%, 1-<2mm). CROSSCUT AT 273.35 BY A 4cm THICK MG INTERM DYKE. 274.58 - 276.39: MOD SHEARED/TECTONIZED BIOTITE BEARING DYKE, WITH BIOTITE STREAKED OUT <1x3-12mm 276.39 - 281.41: VARIABLY M-S SHEARED WITH INTERMITTENT FG MASSIVE SECTIONS. BIOTITE STREAKY TO VFG 281.41 - 281.59: GOUGE (?) MASSIVE, NON FOLIATED C/A 70° NOTE LT GREY SILICEOUS TUFF? IN MARGIN	VARIABLE W-S 1-3mm CALC VEINS @ C/A 60-70°, MINOR C/A 10-20° VEINS = EPI ± QTZ. a) 246.42 - 277.00: MOD 277.00 - 278.52: M-S 278.52 - 280.87: S 280.87 - 281.62: M 281.62 - 285.87: S 285.87 - 287.20: M 287.20 - 289.99: S 289.99 - 296.54: NIL - LOC EPI ± QTZ ± CALC VEINS 1-50mm, TYPICALLY AS W-S CONCENTRATIONS.	TR-1% PY, LOC 2% PY, LOC TR CP ON FRACTURE COATINGS a) LOC QV WITH TR GA, SP 273.48 - 289.17: TR PY, PO, LOC TR CP @ 281.01 289.17 - 289.42: 1% PY 289.42 - 290.69: TR PY 290.69 - 292.30: <1-2% PY 292.30 - 295.25: TR PY 295.25 - 296.54: <1-1% PY	LITHO: SAO 290.00 - 295.00m NOTE LOC CLOTS OF BI UP TO 3x3cm @ 294.25

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FALCONBRIDGE LIMITED

FROM	TO	ROCK TYPE	COLOUR GRAIN SIZE	TEXTURES AND STRUCTURE	ALTERATION	MINERALIZATION	REMARKS
				281.59 - 290.62: SIM TO 276.39 - 281.41.			
				290.62 - 290.64: LT GREY Bx-DYKE. INR BEARING(?) NOTE LT GREEN FRAGS + CRYSTALS 40% SDBx RELATED?			← 5% BIOT INT. CHL HALO ← ACID TEST !!!
				290.64 - 293.64: MASSIVE - VW SHEARED Bi DYKE, FG EQUIGRN.			
				293.64 - 296.54: MASSIVE, VFG LOC MG Bi BEARING DIORITE / GABBRO, EQUIGRANULAR			NOTE STRANGE 3 PK-? VEINS(?) C/A 15° @ 292.38 - 292.43m.
296.54	298.00	FAULT ZONE «FLT»	DK GREEN	ZONE INCLUDES ABOVE BIOTITE DYKE, ATUF, MINOR R-OTUF & MINOR GOUGE.			

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FALCONBRIDGE LIMITED

FROM	TO	ROCK TYPE	COLOUR GRAIN SIZE	TEXTURES AND STRUCTURE	ALTERATION	MINERALIZATION	REMARKS
298.80	303.43	<<GDKE>> GABBRO DYKE	DK GREEN - BLKISH VFG	GABBRO DYKE, MASSIVE, EQUIGRANULAR TOP CTC 5/A 65°	- LOC QTZ ± CAL VEINS	LOC 2% PY-PO NEAR TOP CTC, OTHERWISE NVS	
303.43	304.90	<<RTUF>> RHYOLITE TUFF	M GREY	RELATIVELY MASSIVE WITH 3-4% BLUE 1mm QTZ EYES AND 2% 1cm FP	-	NVS	
304.90	310.56	<<BMFL>> BASALT FLOW, (POSS A GABBRO DYKE)	DK GREEN VFG	MASS FLOW OR GABBRO DYKE. NO OBVIOUS CHILLED MARGIN. BOT CTC 5/A 60°	- W EPI ± CALC STR <2mm	- 1-2% PY - PO	

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FALCONBRIDGE LIMITED

FROM	TO	ROCK TYPE	COLOUR GRAIN SIZE	TEXTURES AND STRUCTURE	ALTERATION	MINERALIZATION	REMARKS
310.56	319.61	RHYOLITE - DACITE TUFF with GABBRO DYKES << R-DTUF >>	LT - MED GREY	RHYOLITE - DACITE TUFF INCLUDES A MASSIVE QP SECTION AND AN APHYRIC DACITE - SILICEOUS TUFF BOTTOM SECTION BOT C/A 65°	- LOC W SER MX	TR PY - PO	
319.61	325.74	ANDESITE TUFF, minor DACITE TUFF << ATUF >>	MED - DK GREEN	RELATIVELY MASSIVE, APHYRIC, LOC CRUDELY LAYERED	- W EPI 1-2mm VEINS	TR PY - PO	
325.74	329.28	DACITE TUFF << DTUF >>	MED GREY	APHYRIC, - VFG, NO VISABLE LAYERING BOT CTC C/A 55°	- LOC M <1mm CHL FRACTURES	TR PY - PO	

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FALCONBRIDGE LIMITED

FROM	TO	ROCK TYPE	COLOUR GRAIN SIZE	TEXTURES AND STRUCTURE	ALTERATION	MINERALIZATION	REMARKS
329.20	330.67	GABBRO DYKE <<GDKE>> (POSS BASALT FLOW?)	DK BROWN-GREY-GREEN VFG	MASSIVE, HOMOGENEOUS LOOKING, APHYRIC	- W CALC± CHL± EPI STR, IRREG	TR - <1% PY-PO	
330.67	336.50	DACITE TUFF with minor ANDSITE TUFF <<DTUF>>		APHYRIC WITH FLATTENED VESICLES, POSSIBLE FLOW (30% DYKES)	- W LOC MODERATE CALCITE VEINS ± EPI	1-2% LOC 3% PY-PO	
336.50	338.22	GABBRO DYKE(?) <<GDKE>> (POSS FLOW?)	VFG DK GREEN	MASSIVE	- W-M EPI ± CALC VEINS	TR PY-PO	

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FALCONBRIDGE LIMITED

FROM	TO	ROCK TYPE	COLOUR GRAIN SIZE	TEXTURES AND STRUCTURE	ALTERATION	MINERALIZATION	REMARKS
338.22	341.19	DACITE FLOW or POSS TUFF <<DMFL>>	LT-M GREY	MASSIVE, POSSIBLY CRUDELY LAYERED, NOTE POSSIBLE FLATTENED VESICLES, & STRANGE 1-4 mm SPHEROIDAL BALLS (??)	-	TR PY-PO	
341.19	342.47	GABBRO DYKE <<GAKE>>	MED-DK GREEN	WEAKLY FP PHYRIC GABBRO DYKE	- SEZ EPI	TR PY-PO	
342.47	346.22	BASALT-ANDESITE TUFF <<BTUF>>	DK GREEN	CRUDELY LAYERED? MAINLY MASSIVE BOT CTC C/A 55°	- W-VW EPI VEINS AND PATCHES	1% PY-PO	
346.22	351.22	DACITE FLOW OR TUFF <<DMFL>>	MED GREY	NOTE FLATTENED VESICLES, MASSIVE, NOTE STRANGE SPHEROIDAL FRAGS BOT CTC 70°	- W CARB ± CHL ± EPI ± QTZ 1-10 mm STR	1% PY-PO	

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FALCONBRIDGE LIMITED

FROM	TO	ROCK TYPE	COLOUR GRAIN SIZE	TEXTURES AND STRUCTURE	ALTERATION	MINERALIZATION	REMARKS
351.22	357.37	CARBONATE VNIT ✱ DACITE TUFF <<CARB + D TUF>>	LT + DK GREY FG-APH	RELATIVELY MASSIVE CARBONATE VNIT WITH INTERLAMINATED ~~WITH~~ DACITE TUFF	- VW CALC VEINS WITH MINOR SULPHIDE	3-5% PY-PO MAINLY ASSOC WITH THE DACITE TUFF, ALSO IN CARBONATE STRINGERS CARB VNIT TR PY-PO	
357.37	360.70	GABBRO DYKE (?) OR BTUF <<GDKE>>	M-DK GREY/ GREEN	MASSIVE, FG	- M CALC STRINGER 1-3mm	3% PY-PO	

Hole No. TH-1

FALCONBRIDGE LIMITED

FROM	TO	ROCK TYPE	COLOUR GRAIN SIZE	TEXTURES AND STRUCTURE	ALTERATION	MINERALIZATION	REMARKS
360.70	367.50	ANDESITE - DACITE TUFF., minor CARBONATE UNIT <<A - ATVF>>	M- DK GREEN ± GREY	MASSIVE - CRUDELY LAYERED . MINOR 3cm THICK CA/S UNIT BANDS , TR- 1% FP PHENOS IN GREY DACITIC SECTIONS	- W CHL± SER STR ± ENVELOPES - W CALC STR	1-2% PY- PØ	
367.50	371.03	<<BMFL>> BASALT MASSIVE FLOW	DK GREEN - GREY VFG	MASSIVE , APHYRIC	+ W-M CALC ± EPI ± QTZ ± CHL	TR PY-PØ	
END	OF HOLE						

Hole No. TH-1 MICHAEL J. GRAY FIELD GEOLOGIST Michael J. Gray

HOLE NUMBER: TH-02

FALCONBRIDGE LTD
DRILL HOLE RECORD

IMPERIAL UNITS: METRIC UNITS: X

PROJECT NAME: TH OPTION
PROJECT NUMBER: 06-229
CLAIM NUMBER:
LOCATION: BENNY

PLOTTING COORDS GRID: 1988
NORTH: -190.00N
EAST: -260.00E
ELEV:

COLLAR GRID AZIMUTH: ° ' "

ALTERNATE COORDS GRID:
NORTH: 0+ 0
EAST: 0+ 0
ELEV: 0.00

COLLAR ASTRONOMIC AZIMUTH: ° ' "

COLLAR DIP: -54° 0' 0"
LENGTH OF THE HOLE: 419.71m
START DEPTH: 0.00m
FINAL DEPTH: 419.71m

DATE STARTED: October 26, 1988
DATE COMPLETED: November 2, 1988
DATE LOGGED: 0, 0

COLLAR SURVEY: NO
MULTISHOT SURVEY: NO
RQD LOG: NO

PULSE EM SURVEY: YES
PLUGGED: YES
HOLE SIZE: NQ

CONTRACTOR: MCKNIGHT DRILLING CO.LTD.
CASING: 7.32M
CORE STORAGE: FALCONBRIDGE,NEW CORESHED
UTM COORD.:

COMMENTS :
WEDGES AT: NIL

DIRECTIONAL DATA:

Depth (m)	Astronomic Azimuth	Dip degrees	Type of Test	FLAG	Comments
32.61	-	-54°30'	ACID	ok	
63.09	-	-54° 0'	ACID	OK	
93.57	-	-53°30'	ACID	OK	
124.05	-	-54° 0'	ACID	OK	
154.53	-	-54° 0'	ACID		DIFFICULT TO READ
185.01	-	-55° 0'	ACID	OK	
215.49	-	-55° 0'	ACID	OK	
246.04	-	-54°30'	ACID	OK	
276.52	-	-54° 0'	ACID	OK	
307.01	-	-54° 0'	ACID	OK	
337.50	-	-54° 0'	ACID	OK	
367.99	-	-50° 0'	ACID	OK	
398.48	-	-48° 0'	ACID	OK	
419.71	-	-47° 0'	ACID	OK	
171.34	2°30'	-53° 0'	TRO-PARI	OK	
384.76	16° 0'	-47° 0'	TRO-PARI	OK	

Depth (m)	Astronomic Azimuth	Dip degrees	Type of Test	FLAG	Comments
-	-	-	-	-	

FALCONBRIDGE LIMITED

FROM	TO	ROCK TYPE	COLOUR GRAIN SIZE	TEXTURES AND STRUCTURE	ALTERATION	MINERALIZATION	REMARKS
0	7.32	<<CASING CASING					
7.32	10.38	<<GDKE>> GABBRO DYKE	M GREEN VFG	MASSIVE GDKE Ē LT GREEN APH CHILLED MARGIN @ 9.83-10.38 m. NOTE THE CHILLED MARGIN APPEARS TO BE X-CUT BY A M-DK GREEN APH DYKE BOT CTC 60° Ē MINOR CLAY	- W 1-3mm MG CALC STR ± PY ± PØ ± CP ± SP C/A 45° - M <1mm EP STR	TR CPY-SPH ASSOC Ē CALC VEINS TH=2% PY-PØ ASSOC Ē THE CHILLED MARGIN	BLOCK FIRST 1m, INCLUDE RECHILLED RUBBLE.
10.38	20.20	<SLST> SILTSTONE-ARGILLITE WITH MINOR ANDESITE TUFF	M GREY VFG	POORLY LAYERED ARG, SLST, MINOR FG SST Ē MINOR(10%) TUFF LAYERS. THIS SECTION IS CROSSCUT BY A NUMBER OF GDKES & ~~PALE GREEN "YOUNG" DYKES~~. LAYERING C/A 80° ANDALUSITE(?) PORPHYROBLASTS ARE PRESENT LOCALLY (3-8% 2-5mm DISCOID SHAPE) AND HELP DEFINE LAYERING. LAYERS ~ 5-50mm THICK, SOME STUF (5mm LAYERS) FROM 19.20-20.20.	- W LOC M 1-3mm CALC VEINS ± PY-PØ-SP-CP	<1-1% PY-PØ TH=0 AS DISSEM Ē FRACT COATINGS. LOCALLY NOTE 1-3mm SP STR ± CPY ± PØ ± PY ± GA AND DISSEM GRAINS of SP, CPY-PØ. ie)	THIS ARG-SLST UNIT IS NON-CONDUCTIVE, CHECKED Ē AN OHM METER.
				GDKES NOTED @: 13.55-14.08 C/A 80° 14.71-14.87 C/A 80°ǂ 45° 15.07-15.31 C/A 46° 15.91-16.23 C/A 30° 16.33-17.53 C/A 80°ǂ 25°		10.38-13.55m: <1% PY, PØ, TR CPY LOC 13.55-14.08 m: TR PY-PØ 14.08-14.71m: TR PY LOC 1-5mm DISCON SI STR @ 14.30m 14.71-14.87: <1% PY, TR SP, CP 14.87-15.07: <1% SP, TR CP Ē 1-5mm CALC VEINS 15.07-15.31: <1% SP, TR PØ-PY (STR) 15.31-15.91: <1% SP, TR CP, GA PØ, PY IN 1-2mm STR W-M 15.91-16.23: TR SP-PØ AT CTC 16.23-16.33: TR SP-PY-CP CTC 16.33-17.53: TR SP, CP 17.53-19.80: TR-1% PY, LOC TR CPY 19.80-20.20: 1-2% PY-PØ, TR CPY	LITHO: SA5551 14.08-18.50 (INCLUDES SOME SI STR)

Hole No. TH-2

FALCONBRIDGE LIMITED

FROM	TO	ROCK TYPE	COLOUR GRAIN SIZE	TEXTURES AND STRUCTURE	ALTERATION	MINERALIZATION	REMARKS
20.20	21.11	<<STUF>> SILICEOUS TUFF, minor SILTSTONE/ARG and ANDESITE TUFF	MED GREY - SL GREEN	MOD LAYERED (3-8mm) STUF/DTUF ± MINOR INTERLAM ATUF (15%) AND ARG-SLST (10%). THIS INTERVAL IS CROSSCUT BY A "YOUNG" APHANITIC CRUDELY BANDED DYKE ± 5% <1mm CHL AMYG (?) ie) 20.47 - 20.72 m SA 15° LAYERING C/A 80° BCT CTC C/A 60± IRREG	- W-M <1-1mm EPI IRREG STR ± CHL	TR PY-PO, CPY DISSM TH-O, LOC 5% PY ALONG THE MARGIN OF A BLEACHED APHANITIC DYKE.	BCT CTC FILLED BY YOUNG 2cm DYKE
21.11	26.52	<<DIKE>> GABBRO DYKE OR MASSIVE ANDESITE TUFF	DK-MED GREEN FG	RELATIVELY MASSIVE, VF-FG. BOT CTC UNCLEAR, POSSIBLE ATUFF THAT HAS A GRADATIONAL CONTACT. CROSSCUT BY YOUNGER WEAKLY MAFIC PHYRIC (HB?) NARROW DYKES ie) 23.31 - 23.57: C/A 25°, 5mm CHILLED (BANDED?) MARGIN, 5% MAFIC BLEBS 24.36 - 24.52: 3cm TO ABOVE C/A 70° 25.36 - 25.43: INSITU BX FILLED (<5%) BY EPI ± CHL	- M <<1mm EP STR ALONG FRAC - W SEL EPI² OF FP - LOC QTZ ± CALC VEINS UP TO 5cm THICK ± CL.	TR-1% PY-1% LOC TR CPY.	
26.52	27.48	<<ATUF>> ANDESITE TUFF (MINOR DYKES)	MED-LT GREEN	POORLY LAYERED(?) ANDESITIC TUFFS X-CUT BY PALE GREEN APHANITIC - AMGDALOIDAL DYKES @ ie) 27.22 - 27.36 m: C/A 85° 26.75 - 26.80 m: C/A 85° NOT X-CUT BY QTZ VEINS 26.90 - 27.00 m: C/A 70° APPEARS TO BE X-CUT " "	- M PERV CHL IN TUFFS - W 1-5mm QTZ VEINS IN TUFFS ± CALC.	<1 PY-PO TO 2% PO-PY TR CPY, LOCALLY 5-8% PO AT 26.73 - 26.77m	

Hole No. TH-2

FALCONBRIDGE LIMITED

FROM	TO	ROCK TYPE	COLOUR GRAIN SIZE	TEXTURES AND STRUCTURE	ALTERATION	MINERALIZATION	REMARKS
27.48	28.08	FAULT <<FLT>>	RANGE LT GREEN -DK GREY	FAULT INCLUDES A "YOUNG" PALE GREEN DYKE, MINOR ATUF & THE ARG-SLST. MINOR GOUGE PRESENT, A NUMBER OF CHLORITIC FRAC SHOW SLICKENLINES. DKE c/c 85° & 60°	-S CAL ON FRAC COATINGS & NARROW QTZ VEINS c/a 60°	1% PY, LOC TR CPY	~60% RECOVERY
28.08	35.22	ARGILLITE-SILTSTONE with minor DACITE TF <<SLST>>		POORLY- CRUDELY LAYERED ARG-SLST WITH MINOR MOD LAMINATED STUF (5%), ATUF (5%) AND ATUF / DOKE (10%) LAYERING c/a 60° PORPHYROBLASTS PRESENT BUT NOT CONSPICUOUS. 28.08-31.57: ARG-SLST, MINOR MOD LAM ATUF(10%) ~~ST~~ 31.57-31.88: ATUF & SHEAR(?) 31.88-32.42: DOKE (?) OR MASSIVE TUFF 5-15% << 1mm FP PHENOS c/a: TOP 70° c/a BOT 65° 32.42-35.22: ARG-SLST, MINOR (5%) ATUF	-W <1mm CALC STR -IRREG 1-5cm QTZ-CALC VEIN.	TR-1% PY-PO, LOC TR CP, SP -1-2% PY, LOC TR CPY & SP AS DISSEM & DISCONT STR -2-3% PO -TR PY, CP -<1% PY	NOTE V. BLOCKY CORE @ 28.47-29.20

Hole No. TH-2

FALCONBRIDGE LIMITED

FROM	TO	ROCK TYPE	COLOUR GRAIN SIZE	TEXTURES AND STRUCTURE	ALTERATION	MINERALIZATION	REMARKS
35.22	38.72	DACITE TUFF << DTUF >>	LT-MED GREY APH-FG	MOD LAMINATED DTUFS, MINOR ATUF LARTINGS, MAINLY APHYRIC, LOC WEAKLY FP (5% <2mm) PHYRIC. LAYERING C/A 60-55°	- W <1mm CALC IRREG VEINS - LOC 5cm THICK QFZ + CALC VEINS	TR-<1% PP-PY ± CP ± SP ± GA ON FRAC COATINGS	NOTE POSS CHL STR <1mm ? SILIC^N ENV. LITHO: SA5552 35.22-38.72m
38.72	39.02	MUD SEAM <<MDSE>>	LT BROWN-GREY VFG	SANDY MUD, SLOUGE IN CORE BIN		NVS	NO CORE HERE
39.02	42.12	DACITE-SILICEOUS TUFF <<DTUF>>	LT-M GREY APH-FG	POORLY LAYERED, SIM TO 35.22-38.72m GOKE @ 40.71-41.58 TOP CTC C/A IRREG BOT CTC C/A 60°	- W CALC ± QTZ <1-2mm TH-0 - LOC MOD-S <2mm CHL F/C @	- TR-<1% PY, PP LOC TR SPH @ 40.67m	
42.12	44.10	ARGILLITE-SILTSTONE <<SLST>>	M GREEN AND DK GREY	POORLY LAYERED, 30% ATUF BOT CTC C/A 65°	- W CALC <1mm VEINS	- <1-1% PY-PP, LOC TR CPY	
44.10	54.07	DACITE-SILICEOUS TUFF (MINOR GOKES) <<DTUF>>	LT-M GREY APH MX & PHENOS	POORLY-CRUDELY LAYERED APHYRIC DTUF, STUF, FP PHYRIC XL TUFF AND ARE CROSSCUT LOCALLY BY GOKES (FG MASSIVE). CRUDE LAYERING DELINEATED BY FLUCTUATIONS IN PHENOCRYST CONTENT AND BY COLOR CHANGES. NOTE POSS FRAG @ 46.87 (5x8cm "HOOKED"). OVERALL 20% FP PHYRIC, 80% MASSIVE-SILICEOUS APHYRIC LAYERING C/A 60° GOKES @ 47.50-47.79: CA 80°	- W-M CHL SER 1-2mm STR ± SILE ENV? @ 45.75-46.50 C/A 70° - W QTZ ± CALC ± SER CHL 1-5mm VEINETS TH-0 C/A 30-45°	TR PP-PY, LOC 5-10% PY-PP, LOC TR CPY, LOC TR SP. ie) 44.17: TR SP, TR CP 44.44: TR CP 50.72: TR CP, 5% PY, 10% PY -NOTE INCLUSION? ± TR CP, SP, GA	

Hole No. TH-2

FALCONBRIDGE LIMITED

FROM	TO	ROCK TYPE	COLOUR GRAIN SIZE	TEXTURES AND STRUCTURE	ALTERATION	MINERALIZATION	REMARKS
54.07	61.54	SILTSTONE-SANDSTONE <<SLST>>	DK-M GREY VF-FG	POOR-CRUDELY LAYERED ARG-SLST, LOCALLY FG SST. LOC LARGE 8-12cm x 4-6mm PB VERY CONSPICUOUS (15%). OVERALL 25% PB BEARING LAYERS. NOTE OFFSET OF BEDS (1cm) BY MICROFAULTS ie) 59.72	-LOC CALC 1-5mm THICK VEINS C/A 10-45°	TR-1% PO-PY AS FG DISSEM^N ALSO AS FG PATCHES WITHIN CALCITE VEINS. LOCALLY TR CPY TH-O LOCALLY 2% PO NEAR LOWER CONTACT	SAW SECTION AT ~59.60 ASSAY: SA5651 54.54-61.54 NON GRAPHITIC/ NON CONDUCTIVE
61.54	62.98	DACITE TUFF (MINOR FTUF) <<DTUF>>	LT-M GREY-GREEN	MOD-WELL LAMINATED FINE DTUF WITH MINOR (<5%) ANDESITIC LAYERS AND CARB UNIT LAYERS. NOTE CARB UNIT LAYER MISS VEINS?? LOCATED @ 62.84-62.89m. LAYERS 2-50mm (AVE 5-15mm) LOCALLY NOTE FP PHYRIC LAYERS LAYERING C/A 70°	-VW CALC 1-2mm STR -LOC LT GREY QTZ VEIN @ 61.66-61.76m	<1-5% PY-PO AS DISSEM^N, DISCONTINUOUS STRINGERS & PATCHES. ie) 61.54-61.66: 5% PO 61.66-62.26: 2-3% PO 62.26-62.48: 5% PY-PO STR 62.48-62.78: <1-1% PY-PO 62.78-62.98: 2-5% DISS PY-PO	ASSAY: SA5652 61.54-62.98
62.98	63.94	MASSIVE SULPHIDE <<MS>>	BRONZE-YELLOW, DK GREEN VF-MG	MASSIVE PY-PO, LOCALLY CRUDELY LAYERED, IN A MX OF CARB - FTUF(?) - QX EQUIVALENTS OF EACH. 62.98-63.35: MASSIVE VFG-FG LOC MG PY-PO (80%) WITH A CALCAREOUS MX (20%) AND 10% QTZ + GREEN MAFIC 2-5mm FRAGS. SHARP VFG MSUS CTC AT BUT C/A 80° LAYERING @ 55-60	-M CALC VEINS? DISCON AS LENSES. NOTE NOT CLEAR CROSSCUTTING OF MSUS IS OBSERVED	MASSIVE POORLY BANDED VFG-MG PY-PO. ALSO PATCHES/STRINGERS PY-PO & DISS MG MAGNETITE. 62.98-63.35$_m$: 70% MASSIVE PY PO 63.56-63.84: 5-10% PY-PO 2-3% MAG 63.84-63.94: 2% PY PO	ASSAY: SA5653 62.98-62.56m ASSAY: SA5654 62.56-62.94m HIGHLY CONDUCTIVE

Hole No. TH-2

FALCONBRIDGE LIMITED

FROM	TO	ROCK TYPE	COLOUR GRAIN SIZE	TEXTURES AND STRUCTURE	ALTERATION	MINERALIZATION	REMARKS
				63.25-63.56: 60% MSUS FG ε INCREASED PP, BANDING NOT AS EVIDENT AS ABOVE. NOTE VERY SHARP DROP IN SUS CONTENT AT BOTTOM CONTACT C/A 80°. MX IS PREDOMINANTLY DK GREEN MTUF(?) AS FRAGS(?), ALSO 5% CARBONATE AS DISCON LENSES/PATCHES.			COULD DK GREEN PATCHES BE DYKES
				63.56-63.94: MOD LAYERED ATUF (35%) - CARB (15%) - DTUF (15%), MAINLY PP CRUDELY // LAYERING. LAYERING 80° NOTE CARB & MTUF LAYERS TYPICALLY DISCONTINUOS.			
63.94	78.27	DACITE TUFF (MINOR ANDESITE? SILICEOUS TUFF) ≪DTUF≫	MED GREY TO SL GREEN CAST APHANITIC LOC 1mm FP	RELATIVELY HOMOGENEOUS F. DTUF WITH MINOR ATUF MIXED IN(?), ALSO <5% STUF WH-LT GREY CHERTY LAYERS (1-10mm THICK, AVE 5-10mm). CONTACTS APPEAR TO BE TRANSITIONAL. POORLY, LOCALLY WELL LAYERED (STUF) LAYERING 65-70° <CHERTY NOTE DISSEMINATED BLK TOURMALINE LOCALLY TH-O. THE TOURMALINE GRAINS ARE <1x1 TO 1x6mm NE <1x2mm. OVERALL 1% TOURMALINE IN THE INTERVAL. POSS TOUR-RICH TUFF LAYERS ie) 66.06 FP PHENOCRYST CONTENT VARIES SUBTLELY <1-3%. PHENOS ARE WH <1-2mm (<1mm) AND POORLY OUTLINED LOCAL GOKE @ 66.27-66.33 C/A 60° 67.30-67.45 C/A 70°-40° 77.65-77.72 C/A 45°	- VW <1-1 mm CALC IRREG HAIRLIKE STR±EPI - LOC 2-10mm THICK QTZ-TOURMALINE VEINS ε 1-15% ACICULAR BLK TOURMALINE AS DISSEM ε CHL. @ 68.40m: 10mm C/A 50° 72.29m: 12mm C/A 60° 78.55m: 2mm C/A 45° - W SER±CHL ON F/C	TR-5% PY-PO, AVE TR, LOC TR CPY ie) 63.94-64.46m: 3-5% PO MINOR PY, TR CPY AS DISSEM BLEBS <1mm ALONG FRAC SUB // LAYERING 64.46-64.94: 2% PO 64.94-66.16: TR-<1% PO-PY 66.16-78.27: TR-<1% PO-PY	"TOURMALINE BEARING DACITE F. TUFF PACKAGE" ASSAY: SA05655 LITHO: SA05553 66.00-69.00m

Hole No. TH-2

FALCONBRIDGE LIMITED

FROM	TO	ROCK TYPE	COLOUR GRAIN SIZE	TEXTURES AND STRUCTURE	ALTERATION	MINERALIZATION	REMARKS
78.27	81.77	ANDESITE TUFF with minor GABBRO DYKES << ATUF >>	M-DK GREEN	~~MOD~~/POORLY LOC MOD LAMINATED F. ATUF WITH 1-3mm DARK - STUF INTERLAMINATIONS (2-3%) SHARP ANDESITIC TUFF IS RELATIVELY HOMOGENOUS TEXTURALLY. FOLIATION / LAYERING c/a 70° NOTE 1-3mm LT GREY SERICITE BANDS (?) OR DYKELETS WITH BLK FG TOURMALINE (<1mm, 5-10%), ALSO TOUR APPEARS LOC DISSEM ± IN ATUF'S. LOCALLY BAND x-CUTS A QTZ VEIN(?), MAINLY CONCORDANT.	- W LOC MOD PERV CHL - W LOC M CALC? EPI <1-2mm STR	TR PY-PO, LOC TR CP, SP ON FRACTURES ie) 80.02: TR CP 81.03: TR CP 81.36: TR SP	Room FOR ANOTHER LITHO ?
81.77	89.15	BASALT-ANDESITE TUFF (NOTE FAULT) << ATUF >>	DK GREEN VFG	MASSIVE, VFG B-ATUF WITH 5% WHITE-GREY FRAGMENTS. FRAGMENTS ARE SPECKED ± 5-10% MAFICS, RANGE IN SIZE FROM 3x1cm TO >15x10cm, SHAPES ARE LENSES - IRREG HOOKED WITH ROUNDED APPEARANCE MARGINS. MX (FLOW?) IS HOMOGENEOUS LOOKING → MASSIVE LOCALLY FF PHYRIC TOP CONTACT HAS A 3cm BAND OF BX FLOW TOP (?) c/a 60- IRREG BOTTOM CONTACT 55° c/a LOCALLY CROSSCUT BY DYKES ie) 81.91-81.92: DYKE?, DK GREEN ± 10% TOUR(?) c/a 75° 82.13-82.34: FG DYKE(?) c/a 60° 83.44-83.52: BANDS OF DYKE 3-10mm ± BX FRAGS, NOTE FAULT PLANE ± 3mm CLAY ON BOT c/a 40° 88.80-88.81: 2 MED-DK GREY DYKES ± TOUR(?) c/a 65°	- VW <1-2mm EPI STR NOTE CONCENTRATION OF EPI NEAR WH FRAGS, EPI x-CUTS WH FRAGS. - MX LOCALLY SILICIFIED(?)	NVS - TR DISSEM PY	LITHO: SA05554 86.00 - 89.00 M

Hole No. T.H. - 2

FALCONBRIDGE LIMITED

FROM	TO	ROCK TYPE	COLOUR GRAIN SIZE	TEXTURES AND STRUCTURE	ALTERATION	MINERALIZATION	REMARKS
89.15	89.94	GABBRO DYKE <<GDKE>>	DK GREEN FG	MASSIVE - EQUIGRANULAR GDKE BOT CTC c/a 60° ± 1cm CHILLED MARGIN.	- W <1mm EPI STR	TR PY - PO	
89.94	95.47	BASALT-ANDESITE TUFF <<BTUF>>	DK-MED GREEN VFG	SIMILAR TO INTERVAL ABOVE THE DYKE @ 81.77 - 89.15m. NOTE <5% WHITISH FRAGS, THE PRESENCE OF 5mm THICK BTUF LAYERS(?) AND AN INCREASE IN DISSEM FG TOUR (1%) OVERALL. LAYERING c/a 70°-80% BOT CTC MARKED BY SUDDEN BX TEXTURES.	- W LOC M <1mm EPI STR c/a 15-70° - W-M SEL EPI ALT'N OF WHITE FRAGS	TR PY - PO	NOTE DEFINITE "BEDDED TUFF" IN BOTTOM 20cm OF THIS INTERVAL
95.47	96.67	FAULT BRECCIA ZONE <<FLT>>	DK-PALE GREEN VFG	LAYERED A-OTUFS, WELL LAMINATED, BROKEN & BRECCIATED BY FG WISPY EPI STR(?) OR BY ACH YOUNG DYKES(?). ALSO LOCALIZED NARROW BX INTERVALS & CALC VEINS / CALC MX. BOT CTC APPROXIMATED BY LACK OF BX TEX c/a 60°	- W LATE CAL 1mm STR - LOC M 1-4mm CALC STR - BX - STWK OF EPI(?) WISPY STR, BUT COLOUR NOT RIGHT, PINK DYKES.	NVS - TR PY	FAULT ZONE ?
96.67	105.32	BASALT-ANDESITE TUFF <<ATUF>>	DK GREEN MX WH-LT GREY FRAGS	SIMILAR TO INTERVALS ABOVE THE BX ZONE. B-ATUF HAS A DK GREEN - LOC BLUE/GREY MX AND 5 - LOC 10% WHITISH FRAGMENTS. FRAGMENTS ARE LOCALLY STRETCHED TO BOUDINS(?) RANGE 1x1cm TO >10x5cm. MOST FRAGS HAVE CHARACTERISTIC SPECKLED APPEARANCE & 5-10% MAFICS. MX IS VFG DK GREEN HORNFELSIC, LOCALLY APPEARS LAYERED THOUGH THIS COULD BE DUE TO SILICIFICATION. LAYERING(?) c/a 65°	- LOC BLUE-GREY SEMI-PERVASIVE AND SELECTIVE SILICIFICATION. SEMI-PERV SILF'N AS VAGUE MOTTLED BANDS, SELECTIVE SILF'N AS PATCHES REPLACING FRAGS (?) ie) 96.83 - 97.51 : SEMI-PERV 97.51 - 100.47 : LOC SEMI-PERV 100.47 - 101.43 : SEMI PERV 101.43 - 101.63 : SELECTIVE 101.63 - 102.96 : LOC SEMI-PERV 102.96 - 103.96 : SEMI - PERV, BLEACHED 103.96 - 105.32 : LOC SEMI PERV.	NVS - TR PY - PO	LITHO: SA05555 96.90 - 98.40 (GRADE SEMI-PERV SILCIF'N)

Hole No. TH-2

FALCONBRIDGE LIMITED

FROM	TO	ROCK TYPE	COLOUR GRAIN SIZE	TEXTURES AND STRUCTURE	ALTERATION	MINERALIZATION	REMARKS
					- W LOC M <1-1 mm EPI STR TH-O, COMMON AT MARGINS OF LITH FRAGS. - LOCAL MILKY WHITE QTZ ± EPIDOTE PATCH AT 100.95 - 101.05m - NOTE W CHL FRAC COATINGS TH-O		
105.32	112.81	CARBONATE UNIT <<CARB>>	LT GREY - SL GREEN FG	POORLY-MODERATELY LAYERED CARB WITH 5% DTUF 1-8mm LAYERS AND 10% ATUF <1-5mm LAYERS. ANDESITIC TUFF LAYERS ARE DISCONTINUOUS AND LOCALLY WISPY. CARB UNIT ITSELF IS FG GRANULAR AND APPARENTLY MASSIVE. LOCALLY HIGHLY CONTORTED/FOLDED @ 106.22 LAYERING 70-80° C/A NOTE BROKEN-UP SECTIONS IN THE CARBONATE UNIT (SOLUTION - COLLAPSE INDUCED?) AT i.e) 110.77 - 112.81 (OR FAULT RELATED?) NOTE 112.35 - 112.81 IS A QTZ FRAG BX TOP CTC C/A 40° - IRREG BRECCIATED BOT CTC C/A 70-80	- VW LOC W EPI-CALC STR // TO SUB // LAYERING, LOCALLY CONTORTED i.e) 106.20 - LOC QTZ 2-8mm VEINS C/A 80-40°, SOME AS 1-2cm QTZ "KNOTS" - LOC M SEL EP² OF FP? CALCITE? @ 105.55-105.77m	TR PY TH-O	ASSAY: SA05656 105.32 - 106.50 ASSAY: SA05657 106.50 - 108.00 LITHO: SA05556 108.00 - 109.50 ASSAY: SA05658 109.50 - 111.00 ASSAY: SA05659 111.00 - 112.35 ASSAY: SA05660 112.35 - 112.81
112.81	115.15	ANDESITE TUFF <<ATUF>>	M GREEN VFG	POORLY-CRUDELY LAYERED ATUF ± MINOR CARB (2%) LOCALLY. LAYERING FAINT BUT DISCERNABLE C/A 60°. INTERNALLY SHEARED? AND FILLED WITH CALCITE? BOT CTC C/A 65-60° SHARP	- SHEARED SECTION FILLED WITH ONCON CALC STR (REMOB?) AND HAS W CHL ON FRAC i.e) 114.02 - 114.72m - W EPI-CALC 2mm STR TH-O	<1-1% FG PY-PO DISSEM.	

Hole No. TH-2

FALCONBRIDGE LIMITED

FROM	TO	ROCK TYPE	COLOUR GRAIN SIZE	TEXTURES AND STRUCTURE	ALTERATION	MINERALIZATION	REMARKS
					- W LOC M <1-1 mm EPI STR TH-0, common AT MARGINS OF WH FRAGS. - LOCAL MILKY WHITE QTZ ± EPIDOTE PATCH AT 100.95 – 101.05m - NOTE W CHL FRAC COATINGS TH-0		
105.32	112.81	CARBONATE UNIT <<CARB>>	LT GREY - SL GREEN FG	POORLY-MODERATELY LAYERED CARB WITH 5% DTUF 1-8mm LAYERS AND 10% ATUF <1-5mm LAYERS. ANDESITIC TUFF LAYERS ARE TYPICALLY DISCONTINUOUS AND LOCALLY WISPY. CARB UNIT ITSELF IS FG GRANULAR AND APPARENTLY MASSIVE, LOCALLY HIGHLY CONTORTED/FOLDED ie) 106.72 LAYERING 70-80° c/a NOTE BROKEN-UP SECTIONS IN THE CARBONATE UNIT (SOLUTION – COLLAPSE INDUCED?) AT ie) 110.77 – 112.81 (OR FAULT RELATED?) NOTE 112.35 – 112.81 IS A QTZ FRAG BX BRECCIATED TOP CTC c/a 40° - IRREG BOT CTC c/a 70-80	- VW LOC W <5mm EPI-CALC STR // TO SUB // LAYERING, LOCALLY CONTORTED ie) 106.20 - LOC QTZ 2-8mm VEINS c/a 80-40°, SOME AS 1-2cm QTZ "KNOTS". - LOC M SEL EP² OF FP? CALCITE? @ 105.55-105.79m	TR PY TH-0	ASSAY: SA05656 105.32 – 106.50 ASSAY: SA05657 106.50 – 108.00 LITHO: SA05556 108.00 – 109.50 ASSAY: SA05658 109.50 – 111.00 ASSAY: SA05659 111.00 – 112.35 ASSAY: SA05660 112.35 – 112.81
112.81	115.15	ANDESITE TUFF <<ATUF>>	M GREEN VFG	POORLY-CRUDELY LAYERED ATUF ± MINOR CARB (2%) LOCALLY. LAYERING FAINT BUT DISCERNABLE c/a 60°. INTERNALLY SHEARED? AND FILLED WITH CALCITE? BOT CTC c/a 65-60° SHARP	- SHEARED SECTION FILLED WITH DISCON CALC STR (REMOB?) AND HAS W CHL ON FRAC ie) 114.02 – 114.72m - W EPI-CALC 2mm STR TH-0	<1-1% FG PY-PO DISSEM.	

Hole No. TH-2

FALCONBRIDGE LIMITED

FROM	TO	ROCK TYPE	COLOUR GRAIN SIZE	TEXTURES AND STRUCTURE	ALTERATION	MINERALIZATION	REMARKS
123.90	125.09	DACITE-ANDESITE TUFF, minor SILICEOUS TUFF <<DTUF>>	M GREY TO MGRN GREEN VFG	MOD LAMINATED SECTION OF DTUF (50%), ATUF (40%), AND STUF (10%). LAYERS ARE 1-10mm THICK AVE 5mm. LAYERING c/a 70° TOP CTC DEFINED BY ABSENSE OF CARB c/a 80° BOT CONTACT SEES CARB REAPPEAR c/a 80°	-W LOC 3 <1-1 mm IRREG EPI VEINLETS TH-0 c/a 70 (// LAY) TO 15° c/a	TR PY-PO	
125.09	126.57	CARBONATE UNIT + DACITE TUFF <<CDTF>>	LT GREY & DK GREY-GREEN/ BROWN	WELL INTERLAMINATED, LOCALLY POORLY LAMINATED, INTERLAYERED CARB UNIT WITH DTUF(?) MINOR ATUF (10%). LAYERS RANGE 1-40mm THICK, AVE 2-4mm. DTUF (?) LAYERS VARY IN THICKNESS WITHIN A GIVEN LAYER, TYPICALLY DISCONTINUOUS. LOCALLY CONTORTED / FOLDED OVER THE NARROW SECTION OF 125.30-125.50 LAYERING c/a 75° 125.09-126.24: WELL INTERLAM CARB UNIT & DTUF, ATUF AS DESCRIBED ABOVE 126.24-126.43: POORLY LAM D-ATUF c/a 75° 126.43-126.57: WELL INTERLAM CARB UNIT & DTUF. NOTE LOCAL DISSEM 1-3% BLK GRAINS (TOUR?) @ 125.44-125.99m.	W-M 1-3mm CALC STR c/a 50-20°	TR PY-PO	-TS FOR TOUR. -RUN THIS SAMPLE FOR B, F -ACTURE OF INTERLAM UNIT(?) -NOTE BROWNISH GREY DTUF COULD BE ANDESITIC? ASSAY: SA05663 125.09-126.57m

Hole No. TH-2

FALCONBRIDGE LIMITED

FROM	TO	ROCK TYPE	COLOUR GRAIN SIZE	TEXTURES AND STRUCTURE	ALTERATION	MINERALIZATION	REMARKS
126.57	136.53	ANDESITE-DACITE TUFF <<DTUF>>	M. GREY-GREEN VFG-FG	POORLY LAYERED A-DTUF, LOC MINOR STUF? (<5%). THIS INTERVAL IS CROSS-CUT BY A NUMBER OF NARROW BX-VEINS (?), THE BOTTOM CONTACT IS A BX WITH SIGNIFICANT SHEARING AND MINOR GOUGE, (BOT CTC BX) LAYERING IS MOST PRONOUNCED IN AREAS OF STUF-DTUF LAYERS. LAYERING ~70° 126.57-131.84: A-DTUF, FINE REL HOMOGENEOUS 131.84-132.02: BX-VEIN, INSITU-MINOR ROTATION 132.02-133.43: A-DTUF 133.43-133.53: BX-VEIN, FRAGS MONOLITHIC 133.53-133.90: DTUF/STUF, LOCAL MICROFAULTS (1cm) 133.90-134.10: BX VEINS 5-15mm X-CUT DTUF 134.10-135.47: A-DTUF 135.47-136.53: DTUF, STUF, MINOR RTUF, MOD LAYERED, NOTE BEIGE-PINKISH STUF LAYERS, NOTE POSS WH FRAGS TOWARD BOTTOM OF INTERVAL	-W LOC M <1-3mm CALC STR -LOC QTZ VEINS 3-15mm E WISPY EP SELVAGES -LOC W CHL FRAC COATINGS	TR-LOC 2% PY-PO-PY, LOC TR CP, ALSO LOC 3-5% PO ASSOC WITH BX INTERVALS. PY-PO-CP/FG MAINLY AS FRACTURE COATINGS 126.57-131.84: TR-<1% PO, & CP @ 128.50, 129.22, 130.92. 131.84-132.04: 3-5% PO AS STR IN BX 132.04-133.43: TR-<1 PO 133.43-133.53: 3% PO (IN BX) 133.53-133.97: TR-<1% PO 133.97-134.12: 3% PO IN BX 134.12-134.70: TR-<1% PO 134.70-135.32: 1-2% PO 135.32-136.53: TR-<1% PY-PO TR CP @ 136.28	LITHO: SAD5558 131.00-134.00 (AVOIDED BX SECTIONS)
136.53	137.16	FAULT BRECCIA <<FLT>>	LT-MED GREY-GREEN	FAULT BRECCIA IN DTUF (POSS SILC^{F} ATUF) & NARROW 2-5mm MAFIC FG DYKES. NOTE SHEARED FRACTURE SURFACES AND TR GOUGE. DOMINANT SHEAR C/A 30-45°	-POSS SILICIFIED, NOTE CHLORITIC FRACTURE COATINGS	TR PY-PO	

Hole No. TH-2

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WAR

FALCONBRIDGE LIMITED

FROM	TO	ROCK TYPE	COLOUR GRAIN SIZE	TEXTURES AND STRUCTURE	ALTERATION	MINERALIZATION	REMARKS
137.16	142.38	ANDESITE-DACITE TUFF <<DTUF>>	MED GREEN-GREY VFG-FG	Sim TO INTERVAL ABOVE FAULT @ 126.57-136.53, WH FRAGS (?) CONSPICUOUS IN THIS SECTION. 137.16-139.22: D-ATUF POORLY LAYERED ± 5% WH FRAGS (± 5% MAFICS) 5x35mm TO 3x >10cm. LAYERING c/a 65° 139.22-139.67: BX-VEIN ? ZONE OF DTUF-STUF BROKEN-UP. 139.67-140.16: MASSIVE, DTUF (?) ± 3% <1-2mm FP PHENOS (POORLY OUTLINED) 140.16-142.38: ATUF POORLY LAYERED PASS MAFIC PHYRK DYKE @ 140.87-140.99	- LOC 5 WISPY EPI STR OVER 5-10cm SECTIONS BETW 140.52-142.68 (PASS REFLECT COMPN) - W 2-10mm CALC VEINS c/a 35-45° - LOC M-S CAL <1mm F/C @ 139.67-140.16	TR-<1% PY-PØ	
142.38	144.17	ANDESITE TUFF, minor CARBONATE UNIT, possible GABBRO DYKE INCLUDED <<ATUF>>	M+ PALE GREEN VFG-FG	STRANGE LOOKING SECTION, LOCALLY MOD LAYERED. ATUF ± MINOR CARB(?) <5% OR POSSIBLY X-CUT BY A NON ALTERED GDKE. THIS BROUGHT TO QUESTION BECAUSE OF 3-5% FG LEUCOXENE DISSEM BETW. 142.38-143.25. LAYERING c/a 65-70° NOTE 143.25-144.17 IS MOD LAM ATUF ± <5% CARB LAMS.	- LOCAL SECTIONS OF M-S SEMI PERV EP ± CALC (?) ie) 142.38-142.70; 142.98-143.13	TR PY-PØ TH-O, LOC TR-3% CPY AS DISSEM-ASSOC ± STR, LOC TR SP. TO) 142.45: TR CP 143.22: 3% CP IN A CALC STR ± 1-2% PØ NOTE PATCHY-BLEBBY CP c/a 45 & 20°, ON THE MARGIN OF A DYKE (?) 143.68: TR SP (?) ON A FRACTURE COATING	? ~~SAMPLE~~ ASSAY: SA05664 143.13-143.27m

Hole No. TH-2

FALCONBRIDGE LIMITED

FROM	TO	ROCK TYPE	COLOUR GRAIN SIZE	TEXTURES AND STRUCTURE	ALTERATION	MINERALIZATION	REMARKS
144.17	149.48	CARBONATE UNIT + ANDESITE TUFF <<CATF>>	LT GREY & DK GREY -GREEN	SHARPLY BANDED ZEBRA ROCK. WELL LAYERED, LOC MOD LAYERED CARB (70-10%) & INTERLAYERED ATUF (80-30%). CROSS-CUT BY A DACITE FP PHYRIC DYKE. MINOR CALC-SILICEOUS T. NOTE BANDS VARY IN THICKNESS 1-15mm (AVE 2-4mm) AND INDIVID LAYERS VARY IN THICKNESS & CONTINUITY 144.17-144.22: WELL LAM, C/A 70°, DTUF (50%) CARB (30%), ATUF (20%) LAYERING C/A 70° 144.22-144.53: MASSIVE DACITIC FP PHYRIC DYKE. 5-10% <1-1mm PHENOS. TOP CTC C/A 70° (SHARP). BOT CTC C/A 75° 144.53-145.36: WELL INTERLAM CARB (60%), ATUF (40%). NOTE LOCAL OVOID CALCAREOUS SPOTS IN ATUF LAYERS ie) 145.05 145.36-145.76: MOD LAM ATUF (70%), CARB (30%) 145.76-147.05: WELL INTERLAM CARB (50%), ATUF (50%) 147.05-147.80: WELL INTERLAM CARB (70%), ATUF (30%) LAYERING C/A 80° NOTE BOUDINED-OUT QTZ. TR BLK MINERAL (TOURMALINE?)	- W CALC ± EPI VEINS TH-O, LOC S EPI ± CALC VEINS SUB // LAYERING @ 147.11-148.48 - LOC W CALC 3mm STR	TR PY-PO TH-O NOTE 1% PO, TR CP ON FRAC COATINGS IN DACITIC DYKE 1% PO, TR CP	MINOR DTUF/STUF INTERLAM(?) ASSAY: SA05665 144.53-146.03 ASSAY: SA05666 146.03-147.80

Hole No. TH-2

FALCONBRIDGE LIMITED

FROM	TO	ROCK TYPE	COLOUR GRAIN SIZE	TEXTURES AND STRUCTURE	ALTERATION	MINERALIZATION	REMARKS
				147.80 - 148.78 : ATUF (90%) CARB (5%), DTUF (5%) POORLY INTER-LAYERED. NOTE 15 cm THICK CG CALC VEIN C/A 35°	- EPI STR FORM BX-VEINS LOCALLY, (IN SITU)		ASSAY: 5A05668 147.80 - 148.78
				148.78 - 149.22 : WELL INTERLAYERED ATUF (50%), DTUF (5%) CARB (45%). LAYERING C/A 75° NOTE DISSEM BLK MIN (TOUR) <1% 1mm @ 148.78 m.			ASSAY: 5A05668 148.78 - 149.47
				149.22 - 149.47 : MOD INTERLAYERED ATUF (65%) & CARB (35%). <1% BLK MIN IN ATUF.			
149.47	153.14	ANDESITE TUFF << ATUF >>	DK GREY - GREEN, LOC LT GREY	WELL LAMINATED ATUF (-) 85%, WITH MINOR INTERLAMINATED CARB 5% (1-10 mm THICK), MINOR DTUF LAYERS (10%) (1cm - 15cm THICK) LAYERING C/A 60-75°	- W. LOC m-s 1-3mm CALC + EPI STR C/A 80°	NVS - TR PY	ASSAY: 149.47 - 150.97 m. ASSAY: 150.97 - 152.00 m ASSAY: 152.00 - 153.14 m
			APH - VFG	NOTE LOCAL CONCENTRATIONS OF TOURMALINE IN GREYISH FELSIC LAYERS, BLK SCHORL TOURMALINE @ 150.72, 150.89, 152.90 m. COULD ALSO BE BLEACHED ATUFS = TOUR. PREFERENTIALLY			
153.14	154.15	GABBRO DYKE << GDKE >>	DK GREEN VFG - FG	MASSIVE GDKE TOP CTC C/A 65° BOT CTC C/A 70°		TR PY	

Hole No. TH-2

FALCONBRIDGE LIMITED

FROM	TO	ROCK TYPE	COLOUR GRAIN SIZE	TEXTURES AND STRUCTURE	ALTERATION	MINERALIZATION	REMARKS
154.15	155.92	CARBONATE UNIT + ANDESITE TUFF <<CATF>>	DK GREEN & WH-LT GREY, occ M GREY VF-FG	MOD-WELL INTERLAM ATUF (50%), CARB (35%, looks like possible veins locally?) AND DTUF-STUF (15%). LAYERING C/A 75° BOT CTC C/A 70° SHARP	- W CALC VEINS (?) 1-5mm INTERPRET THE REMAINING CARBONATE TO BE INTERLAM. - LOC MASSIVE QTZ VEIN @ 154.27-154.46	TR-<1% PY BLEBS	ASSAY: 154.15-155.92
155.92	157.00	DACITE DYKE <<DYKE>>	M GREY APH-VFG	MASSIVE DACITE DYKE(?), APHYRIC. BOT CTC 85° SHARP	- W 1-8mm QTZ VEINS C/A 35 - ± MINOR TOUR (?) - VN CALC 1-2mm STR	<1-1% FG DISS PY	LITHO: SA05557 155.92-157.00

Hole No. TH-2

FALCONBRIDGE LIMITED

FROM	TO	ROCK TYPE	COLOUR GRAIN SIZE	TEXTURES AND STRUCTURE	ALTERATION	MINERALIZATION	REMARKS
157.00	160.52	CARBONATE + ANDESITE TUFF <<CATF>>	DK GREEN & LT GREY WHITE	INTERLAM CARB & ATUF SIM TO 154.15-155.92. LAYERING 65-70°	- W 1-3mm CALC STR C/A 20-60°	TR- <1% PY-PY	ASSAY: 157.00-158.50 ASSAY: 158.50-160.52
				157.00-157.31: 60% CARB, 20% DTUF, 20% ATUF			
				157.31-157.89: GOKE, LOC FP PHYLLIC TOP LTC 70° BOT CTC 45°			
				157.89-158.34: 70% CARB, 20% ATUF + EPI, 10% DTUF			
				158.34-158.51: GOKE			
				158.51-160.52: 50% CARB, 40% ATUF, 10% DTUF			
160.52	169.99	BASALT-ANDESITE Tuff (Cross Flow) <<ATUF>>	DULL DK GREY-GREEN VFG	LCL MASSIVE LOOKING, LOCALLY CLNDELY LAYERED & ATUF (OR FOSS BRFL?). LAYERING (?) NOTE THE PRESENCE OF 10-15% CARB LAYERS (REMOB INTO VEINS) 1-8mm THICK @ 167.78-168.50 & 168.82-169.82 NOTE POORLY DEFINED OVOID CALCITE 1-4mm PATCHES, AMYG? POSS SEC CALC ALTN?	- VARIABLE W-INTENSE SL PINK SILICEOUS ALTN @ 160.52-162.62: NIL 162.62-162.92: W-M 162.92-165.03: NIL 165.03-166.28: W 166.28-167.50: S-I 167.50-169.20: W-M 169.20-169.99: NIL	TR PY-PB TH-0, LOC <1-1% PB @ 164.52-164.96m ALSO TR CPY @ 169.83 WITH CALCITE VEIN.	LITH: SA05559 166.28-167.50 ASSAY ©: SAO 160.52-163.30 ASSAY ©: SAO 163.30-166.28 ASSAY ©: SAO 167.50-169.99
				NOTE LOC GOKES @ 160.80-161.19m 163.85-163.94m	- W LOC M CALC & EPI 1-5mm STR TH-0		

- LOC S PERV EPI BANDS @ 160.52-160.80, 161.20-161.40.

- LOC MASSIVE QTZ-CALC VEIN @ 163.42-163.66 C/A 10° ALSO 164.42-164.54 @ C/A 75°

Hole No. TH-2

FALCONBRIDGE LIMITED

FROM	TO	ROCK TYPE	COLOUR GRAIN SIZE	TEXTURES AND STRUCTURE	ALTERATION	MINERALIZATION	REMARKS
169.99	183.81	DACITE TUFF <<DTUF>>	LT GREY VFG MX F-M CX	SOMEWHAT MASSIVE, CRUDELY BEDDED, DACITE FP PHYRIC TUFFS(80%) WITH INTERLAYERED APHYRIC DACITE FG TUFFS(20%) LAYERING ~C/A 70° TOURMALINE POSSIBLY DISSEM TH-O <1% FG, OR ALTERNATELY COULD BE ALTERATION RELATED, ie) WITH THE SERICITE STR LOC NOTE POSS LAPILLI FRAGS @ 178.25	- S, LOC M, LOC INTENSE 1-4mm SER ± CHL WISPY STR (OR GROUPS OF STR) TH-O (C/A 70°) - LOC THESE STR HOST FG-MG BLK TOUR GRAINS - LOC 2-10mm THICK LT GREY QTZ-TOUR (BLK CG) VEINS C/A 20-60° ie) 171.38 : 10mm ; C/A 45° 171.55 : 1-3mm : C/A 45° 171.97 : 3mm C/A 60° 174.87 : 2mm C/A 45° 175.30 : 4mm C/A 60° 175.60 : 5mm C/A IRREG - LOC M. CALC 1-in STR @ 182.31-183.81 m.	TR PY-PO TH-O, LOCALLY <1-1% IY-PO @ 173.83-174.85, 175.20-175.45, LOC TR SP(?) @ 172.27 LOC TR GA @ 178.07m	ARE THE FP 2°, AG IN ALBITIZATION? CDAC. * CHECK DENSITY OF MICAC QV ASSAY: 169.99-171.50 LITHO: 175.00-174.50 ASSAY: 171.50-173.00 ASSAY: 174.50-176.00 ASSAY: 176.00-177.50 ASSAY: 177.50-179.00 ASSAY: 179.00-180.50 ASSAY: 180.50-182.00 ASSAY: 182.00-183.81
183.81	197.44	ANDESITE TUFF, minor CARBONATE UNIT <<ATUF>>	M-DK GREY-SL GREEN VFG	POORLY LAYERED LOC MOD LAYERED ATUF(60%), WITH MINOR INTERLAM DTUF(5%) LT GREY, AND CARB(6%) THAT APPEARS REMOBILIZED INTO VEINS LOCALLY. LAYERING C/A 65-70° NOTE AMGD(?)-LIKE STRUCTURES (CALCITE) TH-O.	- M-S CALC 1-3mm VEINLETS TH-O // LAYERING TO SUB // (SOME OF THESE ARE LAYERS?) - VW-W PERV CHL - LOC TOUR(?) IN VEINS @ 192.06, 191.97, 190.44 186.95	TR LOC <1% IY-PY NOTE TR CP IN QTZ VEIN @ 189.63 m.	~~183.81~~ - ASSAY ⓒ: 183.81-187.00 ASSAY ⓒ: 187.00-190.00 ASSAY ⓒ: 190.00-193.00 ASSAY ⓒ: 193.00-195.00 ASSAY ⓒ: 195.00-197.44

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FALCONBRIDGE LIMITED

FROM	TO	ROCK TYPE	COLOUR GRAIN SIZE	TEXTURES AND STRUCTURE	ALTERATION	MINERALIZATION	REMARKS
197.44	201.00	ANDESITE-BASALT TUFF <<ATUF>>	DK GREY	POORLY LAYERED, NOTE LOCAL STRONGLY RECRYSTALLIZED LAYERS	- W LOC MOD 1mm CALC STR	TR PY-PO	
201.00	202.25	GABBRO DYKE <<GDKE>>	M-DK GREEN	FG, W FOLIATED (?)	- W-M CALC STR	NVS	
202.25	203.60	ANDESITE TUFF <<ATUF>>	M GREEN-GREY	CRUDELY LAYERED, NOTE RECRYSTALLIZED LAYERS	- M LOC S CALC STR	TR PY-PO	
203.60	205.14	ANDESITE FLOW <<AMFL>>	M GREEN	AMYGDALOIDAL FLOW(?) 1-5% CALC AMYG	- W-M 2-3mm EPI STR	TR PY-PO TR CPY @ THE LOWER CTC	
205.14	206.58	FAULT with GABBRO DYKE <<FLT>>	DK GREEN VF-FG	MASSIVE, C FLT(?)BX & SHEARED PORTIONS OF THE GDKE	- CALC ± HEM FILLS IN MX OF BX	TR PY-PO	
206.58	208.22	DACITE TUFF <<DTUF>>	LT GREY ± LT PINK	FP PHYRIC 3-8% <1-2mm	- SILIC^F?	- TR PY-PO - <1% CPY	
208.22	212.24	ANDESITE-DACITE TUFF <<ATUF>>	M GREY-GREEN	CRUDELY LAYERED, LOCALLY FP PHYRIC C/A 80°	- M EPI ± CALC VEINS - SILIC^F(?) - W-M CALC ± EPI STR	TR PY-PO TR CPY ~1%	
~~210.57~~							
212.24	224.70	BASALT TUFF <<BTUF>>	M GREEN	STRONGLY RECX, WITH CRUDE WH FRAGMENTS (ALTERED FLOW?)	- M SEL EPI^2 OF BANDS/FRAGS	<1% PY-PO	
224.70	226.42	GABBRO DYKE <<GDKE>>	DK GREEN VFG	MASSIVE	- W EPI-CALC	NVS	
226.42	232.10	FAULT <<FLT>>	DK GREEN	MONOLITHIC? X-CUT BY YOUNG DYKES	- LOC S SEL-PERV EPI^2 OF MX	NVS	

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FALCONBRIDGE LIMITED

FROM	TO	ROCK TYPE	COLOUR GRAIN SIZE	TEXTURES AND STRUCTURE	ALTERATION	MINERALIZATION	REMARKS
232.10	242.86	GABBRO DYKE ≪GDKE≫	DK GREEN FG, LOC VFG	MASSIVE FG GABBRO DYKE, NON MAGNETIC LEUCOXENE BEARING. NOTE TOP CTC CHILLED MARGIN 232.10'-232.32 C/A 45° BOT CTC CHILLED MARGIN 242.59-242.86 C/A 45°	-w-m <1mm WISPY EPI STR IRREG ± CALC - LOC 1-15cm THICK QTZ ± CALC ± EPI VEINS @ 235.11-235.20: C/A 30° ± HEM 239.98-240.18: C/A 45°	<1% DX-FG FG DISS THRO. LOC <1% DISS CPY AT 235.21 ON VEIN BORDER	

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FALCONBRIDGE LIMITED

FROM	TO	ROCK TYPE	COLOUR GRAIN SIZE	TEXTURES AND STRUCTURE	ALTERATION	MINERALIZATION	REMARKS
242.86	247.65	DACITE-ANDESITE TUFF <<DTUF>>	M-LT GREY/GREEN VFG-APH	MOD TO WELL LAYERED D-ATUF, APHYRIC, LOCALLY MAFIC CLOTS (?) <1mm, LOCALLY BRECCIATED BOT CTC TRANSITIONAL C/A 55° LAYERING 70°/A	- M/S - S STWK 5|6 // LAYERING, OF DK GREEN <1-2mm AMPH(?) STRINGERS (HARD) C/A (45-80)	TR PY-PO TH-O LOC TR GA ON FRAC COATING AT 243.80m TR CPY @ 247.37	HUG BELIEVES THIS LOOKS SIM TO ROCKS @ 2W, 5N
247.65	260.78	ANDESITE TUFF <<ATUF>>	DK GREEN-DULL GREY FG-MG LOC	MOD LAYERED SECTION OF ATUF (90%), R-DTUF/STUF (5%), GDKE (5%). NOTE VARIABLE GRAINSIZE HELPS DEFINE LAYERING, PROB DUE TO LOC RECRYSTALLIZATION. NOTE 256.24-256.30: R-DTUF BED @ 5% 1mm GREY QTZ EYES NOTE BEDS/BANDS WITH 2-3mm AMPH. NOTE <<5% POORLY DEFINED 1-10cm WH FRAGS (?)	- W LOC MOD DERV CAL - W LOC MOD CALC± WISPY EPI 1-5mm STR C/A 30-90°. - LOC BEDS SELECTIVELY ALTERED TO EPI + SILICEOUS PINKISH BANDS - LOC TOUR(?) QTZ 1mm STR @ 256.03	TR-<1% PO TH-O LOC <1-1% PO @ 248.96-249.16m LOC TR CPY @ 259.09	LITHO: SA5562 255.00-258.00 POSS FLOW IN MASSIVE HOMOG SECTIONS

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FALCONBRIDGE LIMITED

FROM	TO	ROCK TYPE	COLOUR GRAIN SIZE	TEXTURES AND STRUCTURE	ALTERATION	MINERALIZATION	REMARKS
260.71	265.70	ANDESITE LAPILLI TUFF/ LAPILLISTONE <<ALTF>>	DK-M GREEN LAP-FRAGS FG-MX	W FOLIATED ALTF TO ALST, ANDESITIC MX WITH HETEROLITHIC (?) ANDESITIC & DACITIC(?) LAPILLI FRAGMENTS. FRAGMENTS (30-80%) ARE ATTENUATED // TO THE FOLIATION, RANGE IN SIZE 2mm-3x>5cm, AVE 5-10mm x 1-3cm. FRAGMENTS INCLUDE DK GREEN ANDESITIC FG TUFF(85%) [c MAFIC <1mm CRYSTALS], WHITISH FIERY(?) ATUF (10%), LT-M GREY FG DTUF (5%). NOTE DTUF FRAGS POSS SELECTIVELY SILICIFIED.	- W PERV CHL - LOC SILF^{N} OF FRAGS? - VW 1-4mm EPI & CALC VEINS.	TR-<1% PY-PO, ~~[illegible]~~ 259.99 (struck out)	(CL) ✓ POSS A MONOLITHIC BRECCIA.
265.70	279.82	ANDESITE TUFF <<ATUF>>	DK DULL GREY-GREEN VFG-FG, LOC LAP FRAGS	CRUDELY LAYERED ATUF WITH 5% WH-MED GREEN FRAGS (LAP), LOCALLY POSS ALTF BEDS. NOTE YOUNG SDBX TYPE DYKE c CHILLED MARGINS & 1-2mm AMYGD^{S}, 1-3% MAFIC PHENOS(?) 1-3mm IN A LT-MED GREEN FG GROUNDMASS CTC C/A TOP 60°, BOT 25°. NOTE POSSIBLE DYKE @ 277.52-278.05 WITH BIOTITE FLECKS. NOTE ALTF @ 275.90-276.50.	- W LOC W-M EPI & QTZ & CALC <1-3mm - LOC S EPI 1-8mm IRREG VEINLETS @ 277.25-277.52 - LOC SEL SILF^{N} OF FRAG? AT 277.07	TR PY, LOC <1% PO	

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FALCONBRIDGE LIMITED

FROM	TO	ROCK TYPE	COLOUR GRAIN SIZE	TEXTURES AND STRUCTURE	ALTERATION	MINERALIZATION	REMARKS
279.82	308.01m	BASALT-ANDESITE TUFF <<ATUF>>	DK GREY - GREEN - SL BROWN	RELATIVELY MASSIVE LOOKING SECTION OF MAFIC VF-FG B-ATUFS. LOCALLY THE TUFFS APPEAR TO BE CRUDELY LAYERED	- NOC 5/5-M 1-2mm CALC STR ± EPI 6/A 90-60°, @ 279.87-282.32.	TR - LOC <1% PO, TR CPY @ 282.47m	LITHO: SA055563 284.00-287.00
			VF-FG	NOTE LOCALLY MAFIC (PX?) PHYRIC SECTIONS	- VARIABLE VW-S SILICEOUS ± EPI REPLACEMENT TYPE ALT'N AS STR ± PATCHES RANGE 1mm- >10cm THICK	NOTE 303.09-303.90: <1-2% PO	
				NOTE POSSIBLE FAULT ZONE AT 294.36-306.75m AS DENOTED BY SLICKENLINES AND CLAY SEAMS ON FRACTURE COATINGS	ie) 279.82-287.06: VW-W, LOC M MAINLY VEINS 287.06-288.72: M-W PATCHY SOME VEINS 288.72-294.30: VW-W MAINLY VEINS 294.30-295.40: M PATCHY 295.40-298.91: W VEINS 298.9-308.01: VW VEINS		
				BOT CTC APPROXIMATE WHERE EPI AND CALCITE INCREASE	- VW-WCHL ON F/C, LOC SLICKENLINES		
					- LOC QTZ ± EPI 5mm-5cm THICK VEINS		

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FALCONBRIDGE LIMITED

FROM	TO	ROCK TYPE	COLOUR GRAIN SIZE	TEXTURES AND STRUCTURE	ALTERATION	MINERALIZATION	REMARKS
308.01	309.86	EPIDOTE ZONE (SKARN?) <<CARB>>	PIST GREEN, LOC PINK, FG, LOC APH	BANDED EPIDOTE ZONE, SKARN (?), OR POSSIBLY AN ALTERATION ZONE (?). MINOR CALCITE (<5%) BETWEEN POORLY DEFINED EPI BANDS. POSSIBLY A CARB UNIT THAT HAS BEEN SKARNIFIED? ALTHOUGH THE GRAINSIZE IS FINE AND NO OTHER SKARN MINERALS ARE VISABLE.	- PERVASIVE "BANDS" EPI THRO MOST OF THE INTERVAL. LESS THAN 20% EPI AS IRREG VEINS / PATCHES AT THE TOP 30cm OF THE INTERVAL. (FLOOD OF EPI) - LOC STRONG PINK "HEMZ" SILICEOUS APH ALTN AT 308.26 - 308.74 m	TR - 1% PY DISSEM BLEBS, ie) 308.86 - 309.24: TR PY-PO 309.24 - 309.74: <1-1% PO 308.74 - 309.86 : TR PO	ASSAY: 308.26 - 309.86 m PROBLEM WITH DISTANCES BETWEEN BLOCKS HERE. EPI ZONE IS ACTUALLY 80
309.86	320.26	ANDESITE TUFF <<ATUF>>	DK GREEN, FLESH, PIST GREEN, APH - FG LOC MG	MODERATE - POORLY, LOCALLY WELL LAYERED B-ATUF, SKARNIFIED (?), MINOR CARB LAYERS (<5%) LOCALLY. LAYERING C/A 70° 309.86 - 310.33 m: B-ATUF, 10% CARB 2-10mm LAYERS, 10-20% SEL EPI. C/A 70° 310.33 - 310.68 m: YOKE ALA SDBX (?), APH - VFG GM & 2% MAFIC CLOTS (PHLOGO?), (AMYG?) 310.68 - 310.89: B-ATUF, 15% CARB, 15% EPI 310.89 - 311.26: EPI - SILICEOUS ALTN 50/50 311.26 - 311.84 B-ATUF 311.84 - 314.06 : S SILICEOUS ALTN, SOME EPI 314.06 - 314.50 : A-BTUF 314.50 - 314.70 : MASSIVE FG GOKE C/A 60-40° 314.70 - 314.96 : A-BTUF 314.96 - 316.96 : S SILICEOUS ALTN, ± CAL? MINOR 1-2cm THICK BIOTITE BEARING LYKES	- LOC M-S SILICEOUS ALTN OF AS FLESH COLOURED IRREG BANDS THAT REPL TUFF LAYERS (?), M (30%) S (>30%). ie) 310.89 - 311.26 : S ALTN + EPI 50/50 311.84 - 314.06 : S ALTN, MINOR EPI 314.96 - 316.96 : MS ALTN 318.71 - 319.29 : EPI ZONE 319.53 - 319.75 : EPI ZONE	TR - <1% PO - PY, LOC 1-3% PO AS DISSEM BLEBS & TR CPY AT 310.69 - 311.22 m.	ASSAY: 309.86 - 311.36 ASSAY: 311.36 - 312.86 ASSAY: 312.86 - 314.96 LITHO: SA05564 314.96 - 316.96 ASSAY: 316.96 - 317.98 ASSAY: 318.20 - 320.26

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FROM	TO	ROCK TYPE	COLOUR GRAIN SIZE	TEXTURES AND STRUCTURE	ALTERATION	MINERALIZATION	REMARKS
				316.96 – 318.00 : B-ATUF			
				318.00 – 318.71 : GDKE TOP CTC C/A ~80° BOT CTC C/A ~60°			
				318.71 – 319.29 : EPI FLOODED / BANDED			
				319.29 – 318.53 : GDKE, FG			
				319.53 – 319.75 : EPI FLOODED / BANDED C/A 70°			
				319.75 – 320.26 : B-ATUF			
320.26	381.95	FAULT (FILLED BY MAFIC DYKE) <<FLT>>	M-DK GREEN	FAULT ZONE FILLED BY A RELATIVELY FRESH LOOKING MAFIC (LX?) PHYRIC DYKE & A CHLORITIC GM. NOTE BLOCKY INTERVALS, CALC-QTZ BX VEINS, SLICKENLINES ON FRAC COATING, LOK MINOR GOUGE. TOP CTC (DYKE) ~70° C/A BOT CTC UNCLEAR (LAST SLICKENLINE)	- W-M LOC S IERV CHL? - LOC 1-2 mm CALC VEINS, NOTE 10 cm CALC BX – VEIN @ 320.74	TR-LOC 2% PY,	

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FROM	TO	ROCK TYPE	COLOUR GRAIN SIZE	TEXTURES AND STRUCTURE	ALTERATION	MINERALIZATION	REMARKS
321.95	333.31	BASALT FLOW <<BMFL>>	DK GREY -SL GREEN VFG	MASSIVE VFG BMFL. CROSSCUT BY A NUMBER OF GOKE'S, DIFFICULT TO DIFFERENTIATE FROM THE BMFL. TOP CTC FAULT 25-35° BOT CTC SHARP 45° GOKE'S @ 329.29 - 329.39 : C/A 35° & 50°, FG 332.16 - 332.66 : C/A 60° & 20°?	- W 1-2mm CALC ± EP VEINS - LOC QTZ ± EPI ± CHL VEINS @ 323.05: 5mm C/A 45° 324.52: 15mm C/A 40° 325.49: 10mm C/A 40°	TR-<1% PY, LOC 1-2% DISSEM PY	
333.31	338.51	GABBRO DYKE <<GOKE>>	DK GREEN-BLKISH FG-LOC F-MG	SHEARED/FOLIATED GOKE(?) F-MG, COLOUR INDEX OF 50/60. APPEARS WEAKLY FOLIATED, DIFFICULT TO DISTINGUISH LOWER CTC. NOTE 25cm THICK CHILLED FG MARGIN @ TOP CTC. TOP CTC C/A 45° SHARP BOT CTC - C/A ?	- W-M CALC ± EPI ± QTZ VEINS C/A 15-70° (70°) - LOCAL QTZ VEINS ie) 337.52 - 337.62 PATCHY/IRREGULAR	TR-2% PY-PO AS DISSEMN	

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FALCONBRIDGE LIMITED

FROM	TO	ROCK TYPE	COLOUR GRAIN SIZE	TEXTURES AND STRUCTURE	ALTERATION	MINERALIZATION	REMARKS
338.51	340.15	BASALT-ANDESITE TUFF <<ATUF>>	DK GREY-SL GREEN VF-LOC MG	CRUDELY LAYERED(?), B-ATUF ± RECRYSTAL" BEDS(?). POSSIBLE PART OF THIS UNIT IS ACTUALLY THE CONTINUATION OF THE ABOVE DIKE	- W-LOC M QTZ±EPI±CALC VEINS	TR-<1% PY-PO	STRANGE INTERVAL, CHANGES IN GRAINSIZE SUGGEST THIS IS A TUFF SECTION
340.15	340.50	FAULT BRECCIA <<FLT>>	M-DK GREEN VFG MX FRAGS 2-20 mm	FAULT BX(?), FRAG SUPPORTED, HETEROLITHIC. FRAGS 2mm - 20mm AVE 8mm, SUBANG-SUBROUNDED. MARGINS OF FAULT APPEAR TO BE INSITU BX. MX APPEARS TO HAVE BANDED TEXTURES LOC, BUT NOT APPARENT UNDER THE HANDLENS. TOP CTC S/A 70° BOT CTC S/A 65-60°	- MINOR CALC VEINS, EPI WISPY AS STR AT MARGINS OF THE BX.	NVS - TR PY	POSS RELATED TO A YOUNG DYKE EVENT

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FALCONBRIDGE LIMITED

FROM	TO	ROCK TYPE	COLOUR GRAIN SIZE	TEXTURES AND STRUCTURE	ALTERATION	MINERALIZATION	REMARKS
340.50	357.87m	BASALT FLOW <<BMFL>>	DK GREY - GREEN VFG-APH	BASALT MASSIVE FLOW. HOMOGENEOUS LOOKING, LOCALLY FP PHYRIC(?) ie) 346.03 - 352.65 1-3% <1-1 mm FP. ALSO LOCALLY AMYGDALOIDAL ie) 344.83 - 346.03, 1% 1x2 TO 3x5mm AMYGD ± QTZ + POSS. PY INFILLINGS. NOTE 340.50 - 341.65 WEAKLY MAFIC PHYRIC, (DYKE?) TOP CTC QUESTIONABLE, UNCLEAR BOT CTC C/A 60° RELATIVELY SHARP	- LOC EPI² SECTIONS BY QTZ-EP VEINS OR STRONG <1mm STR-STWK EPI ± ALT^N ENVELOPES. ie) 342.65-343.21: S-I <1mm EPI VEINLETS 345.40-345.98: EPI-QTZ VEIN C/A 35° 345.70-345.80: EPI S STR 349.68-350.20: SEMI-PERV EPI STWK ? 351.88: 2cm EPI-QTZ VEIN 352.30-352.40: EPI-QTZ VEIN - W-M CALC ± EPI <1-4mm VEINLETS TH-O ± BLEACHED ENVELOPES	TR-2% PY ± PO AS F-MG DISSEM + PATCHES ie) 340.50-340.95: TR-1%PY 340.95-344.83: TR-<1%PY 344.83-345.73: <1-1% PY LOC AS AMYGD^S (?) 345.73-350.64: TR PY 350.64-351.94: <1-1% PY 351.94-354.90: TR 354.90-357.20: 1-2% PY 357.20-357.87: TR PY	LITHO: SA05565 347.00-350.00m
357.87	358.41	RHYODACITE TUFF (POSS DYKE?) <<RTUF>>	LT-M GREY VF MX	RELATIVELY MASSIVE QP ± K-DIVF TUFF OR POSS DYKE? QTZ EYES ARE BLUEISH, ROUND 1-<2mm, 2% TH-O. NOTE 10% CHLORITIC <1mm CLOTS (FLATTENED VESICLES?). BOT CTC ?~60° C/A	- M WISPY EPI VEINLETS <1-2mm TH-O, IRREG.	TR-<1% PY, LOC TR SI @ 358.05 TR GA ON FRAC COATING @ 358.30m	ASSAY: SA05669 357.81-358.41

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FALCONBRIDGE LIMITED

FROM	TO	ROCK TYPE	COLOUR, GRAIN SIZE	TEXTURES AND STRUCTURE	ALTERATION	MINERALIZATION	REMARKS
358.41	374.47	FAULT ZONE <<FLT>>		MIXED ZONE OF ATUF, GOKE, DTUF, GOUGE OVER A WIDE INTERVAL. FRACTURES HAVE SLICKENLINES TH=0 LOCALLY CLAY GOUGE COATINGS	- VW- W +3mm CALC VEINS TH= 0, LOC M-S CALC VEIN : BX's IN DYKES.	TR-2% PY, PO, LOC TR-<1% CP, GA	~~ASS~~
					- VARIABLE W-M CHL + SER IN THE ATUF & DTUFS	@ 358.4-359.13m: TR-<1% PY 359.13-360.58m: 1-2% PO LOC <1 CP, TR GA @ 359.54 360.58-361.22: TR-<1% PY LOC TR GA @ 360.87m 361.22-361.80: 1-2% PY 361.80-364.03: TR-<1 TR CPY @ 364.03 364.03-365.99: 1-3% PY TR CP @ 364.90 365.99-366.67m: 3-5% PY, TR SP LOCALLY 366.67-367.12m: 2% PY-PO 367.12-367.89m: <1% PY-PO 367.89-369.20m: 1-3% PY, LOC TR CPY 369.20-369.93m: TR PY 369.93-370.16m: 1-2% PY, TR SP 370.16-370.77: <1 PY-PO, TR MAGNETITE 370.77-373.28 1-3% PY-PO TR SP @ 372.90m 373.28-374.47: <1-3% PY NOTE SP-CP & CALC VEIN C/A 70° @ 377.58m	ASSAY: SA05670 358.41-359.76 ASSAY: SA05671 365.47-366.67m ASSAY: SA05672 369.97-370.97m
				358.41-358.71: VFG GOKE			
				358.71-358.85: DAC TUFF(?) FP PHYRIC			
				358.85-360.82: ATUF? APHYRIC OR GOKE			
				360.82-361.14: W FOLIATED BI PHYRIC DYKE(?)			
				361.14-362.85: ATUF(?)			
				362.85-364.16: GOKE C/A TOP 85°, BOT C/A 20°			
				364.16-364.85: DTUF, BRECCIATED, CROSSCUT BY NARROW GOKES.			
				364.85-365.75: GOKE			
				365.75-366.67: ATUF, BRECCIATED			
				366.67-368.78: GOKE, TOP CTC C/A 70°, BOT CTC C/A 50°			
				368.78-368.96: GOUGE & BROKEN ZONE C/A BOT CTC 55° C/A			
				368.96-369.97: FAULT BX WITH ATUF(?)			
				369.97-370.44: A-STUF, MOTTLED VFG & BX IN BOTTOM 10-15cm.			

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FALCONBRIDGE LIMITED

FROM	TO	ROCK TYPE	COLOUR GRAIN SIZE	TEXTURES AND STRUCTURE	ALTERATION	MINERALIZATION	REMARKS
				370.44 - 370.87: BX WITH ROUNDED FRAGS ATUF OR GDKE, POSS SDBX TYPE DYKE?	- S <1mm CHL FRAC COATINGS TH-O, C/A 60-70°		NOTE PYRITE-RICH FRAG WITHIN THE BRECCIA.
				370.87 - 372.14: FG GDKE			~~ASSAY: SA0~~
				372.14 - 372.49: DTUF - STUF X-CUT BY NARROW GDKES			
				372.49 - 373.07: GDKE OR ATUF			
				373.07 - 373.58: MOTTLED STUF			
				373.58 - 373.79: YOUNG DYKE(?) WITH BX MARGIN CTCS C/A 65° ∫ 55°			
				373.79 - 374.42: GDKE OR BI BEARING DYKE(?), BOT CTC C/A 50°, NOTE CHILLED MARGIN			
374.42	377.55	DACITE - SILICEOUS TUFF <<DTUF>>	LT. M GREY APH - FG	POORLY - CRUDELY LAYERED STUF AND DTUF. DTUF (60%) (POSS ATUF?) IS WEAKLY FP PHYRIC OR FG FP BEARING TUFF. LAYERING C/A 65-75° BOT CTC C/A 80°	- S <1mm CHL ± FRAC COATINGS TH-O, C/A 60-70° - W SER ± CHL PERV ALT'N OF THE MX	1-5% F-CG PYRITE MAINLY AS STR/PATCHES, DISSEM, CON-DISCON POORLY DEFINED. LOC TR-<1% SP DISS + STR, AND MINOR MAGNETITE, CP. 374.42-374.83: 3-5% PY C/A 65° 374.83-376.56: 1-3% PY, LOC <1% SP 375.70-376.56 376.56-376.88: 3% PY C/A 60-70 376.88-377.14: 1% PY, SP 1mm STR @ 377.01 @ C/A 70° WITH TRACES OF MAG. 377.14-377.56: 3-5% PY, TR CPY LOC	ASSAY: SA0563 374.42 - 375.50 LITHO: SA0566 (05566) ~~ASSAY~~ 376.56-377.56 ASSAY: SA0565 375.50 - 376.56

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FROM	TO	ROCK TYPE	COLOUR GRAIN SIZE	TEXTURES AND STRUCTURE	ALTERATION	MINERALIZATION	REMARKS
377.55	379.22	GABBRO DYKE <<GDKE>>	m-DK GREEN FG	MASSIVE, FG, EQUIGRANULAR GDKE BOT CTC	- W CALC ± EPI : QTZ < 1-2mm STR.	TR - <1% PY-PO, LOC 3% PY-PO AT TOI CTC.	
379.22	381.95	DACITE-SILICEOUS TUFF <<DTUF>>	M-LOC DK GREY FG-APH	CRUDELY LOC POORLY LAYERED D-STUF SIM TO 374.42 - 377.55 m. THE BOTTOM PORTION OF THE INTERVAL IS SILICEOUS APHANITIC. LAYERING C/A 80° BOT C/A 60° 379.22 - 381.24: CRUDELY INTERLAYERED A-STUF 381.24 - 381.95: DK GREY, MED GREY, LOC FLESH COLOURED APH STUF (?), LOC POORLY LAYERED, LOCALLY MASSIVE. THE FLESH COLOURED SECTION LOOKS LIKE THE MX TO A FLOW-BX (?)	- W-M LOC STRONG <1mm CHL TRAC COATINGS TO 381.24. - W PERV SER ± CHL TO 381.24 m - PINKISH HEM BEARING CORROSIVE VEIN? @ 381.60-381.70 - MASSIVE IRREG QTZ VEIN @ 380.24 - 380.37	1-5% PY-PO, LOC TR SP, MAG. ie) 379.22 - 380.09: 1-2% PY-PO 380.09 - 380.50: 2-3% PY, TR SP @ 380.35 380.50 - 381.37: 3-5% PY-PO DISS STR, LOC TR MAG @ 381.35 m 381.37 - 381.95: TR PY	ASSAY: SA05676 379.22 - 380.20 ASSAY: SA05677 380.20 - 381.33 ASSAY: SA05678 381.33 - 381.95 NOTE PINK-FLESH AREAS HAVE 1% HEM. DISSEM. SULPHIDE STYLE SIM TO ABOVE D-STUF INTERVAL.
381.95	396.01	GABBRO DYKE <<GDKE>>	m-DK GREEN VFG-MG	MASSIVE VFG-MG GDKE WITH VFG CHILLED MARGINS, WEAKLY FP PHYRIC BORDER PHASES, AND A F-MG CORE. TOP CTC 60° BOT CTC 55° SHARP	- W- LOC W-M EPI/CALC <1-3mm STR IRREG - MASSIVE M-CRSE QTZ ± CALC EPI VEINS AT 386.60-387.4, 394.23-394.33, 394.46-394.60, 395.35-395.45	TR - <1% PY-PO	

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FALCONBRIDGE LIMITED

FROM	TO	ROCK TYPE	COLOUR GRAIN SIZE	TEXTURES AND STRUCTURE	ALTERATION	MINERALIZATION	REMARKS
396.01	402.64	CARBONATE UNIT + DACITE TUFF <<CDTF>>	WH-CHNKY to LT-M GREY-SL GREEN	POORLY - LOCALLY MOD INTERLAYERED CARB (70%), WITH DTUF (10%), ATUF (10%), GDKE (10%)	- LOCALLY THE CARB APPEARS TO BE AN ALTERATION, CORRODING TUFFS ? - LOC W SER IN DAC TUFFS	TR-3% BY-MM AS PATCHES & DISSEMINATIONS, LOC TR CP, SP, GA @ 396.01 - 396.44m: 1% PY, TR CP, SP 396.44-396.69m: 2-5% PY 396.69-398.75m: TR-<1% PY 398.75-398.95m: TR 398.95-400.52m: 1-2% PY-PO 400.52-400.97m: TR 400.97-401.42m: 1-3% PY, TR SP, MAG @ 401.07 401.42-402.74: TR PY, TR SP @ 401.42 TR SP, CP, GA, PY, MAG @ 402.17 TR SP, MAG @ 402.28m	ASSAY: SA05619 396.01 - 397.01 ASSAY: SA0 397.01 - 398.01 ASSAY: SA0 398.01 - 398.75 ASSAY: SA0 398.75 - 399.83 ASSAY: SA0 399.83 - 401.03 ASSAY: SA0 401.03 - 402.03 ASSAY: SA0 402.03 - 402.64m

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FALCONBRIDGE LIMITED

FROM	TO	ROCK TYPE	COLOUR GRAIN SIZE	TEXTURES AND STRUCTURE	ALTERATION	MINERALIZATION	REMARKS
402.14	419.71	BASALT FLOW <<BMFL>>	DK GREEN - GREY VF-FG	MASSIVE, LOCALLY AMYGDALOIDAL BASALT FLOW WITH SILICIFIED SECTIONS TH-O AND CROSS-CUT BY GOKES TH-O. IN AMYGDALOIDAL SECTIONS NOTE 2-3% OVOID 1x2mm TO 8x20mm (CALCITE, LOCALLY PYRITE & BMFL). ONE PROBLEM IN THIS INTERVAL IS THE BLUE QTZ EYES NOTE IN AN INTERVAL CLOSE TO THE BOTTOM OF THE HOLE.	- PERV - SEMI AGGRESSIVE SILICIFICATION OF BMFL (?), NOTE RAFTS OF BMFL IN A MOTTLED SILICEOUS MX B) SILICEOUS ZONES @ 402.64-403.61m 408.31-408.97m 409.93-410.85m 416.m-416.54 PATCHY 417.20-417.64 b:SEMI PERV.	TR-3% PY, LOC TR CP, TR SP. i) 402.64-404.00: <1-1% PY 404.00-408.41: TR-<1% PY 408.41-409.01: 2-3% PY 409.01-409.49: <1-1 PY 409.49-410.27: 1-3% PY-PO, TR CP 410.27-410.88: TR PY 410.88-411.11: 2% PY-PO 411.11-419.71: TR-<1% PY LOC MAG @ 415.55, 415.68m	OPEN TO INTERPRETATION, POSS STUFS INSTEAD OF SILICIFIED ZONES IN THIS INTERVAL. LITHO: 6A055567 404.50-407.50 ASSAY: 4 402.64-403.61 ASSAY: 408.10-408.97 ASSAY: 409.45-410.88 ASSAY: 415.90-417.65
				402.64-403.61 : MOTTLED SILFD SECTION (?) 403.61-408.10 : MASSIVE VFG BMFL, BT CTC C/A 30° 408.10-408.25: BX ZONE, FAULT BRECCIA? ANGULAR FRAGS & A QTZ MX. 408.25-408.97: MOTTLED SILFD SECTION (?) 408.97-409.45: GOKE (?), FG, ASS BI MAFICS. 409.45-410.88: PERV - PATCHY SILFN OF BMFL 410.88-413.94: AMYGDALOIDAL VF-FG (RECRYXED?) BMFL. UNCLEAR WHERE THE LOWER ~~CONTACT~~ CTC IS. 413.94-415.15: FP-MAFIC PHYRIC DYKE? OR PART OF THE ~~LOWER~~ FLOW.	- LOC W CHL FRAC COATINGS IN NON-SILF SECTIONS		

415.15 - 415.21: DK GREEN FG-VFG MAFIC DYKE
415.21 - 415.90: FP-MAFIC PHYRIC DYKE (?) SIM TO 413.94 - 415.15

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FALCONBRIDGE LIMITED

FROM	TO	ROCK TYPE	COLOUR GRAIN SIZE	TEXTURES AND STRUCTURE	ALTERATION	MINERALIZATION	REMARKS
				415.90 - 416.66: PATCHY MOTTLED BmFL?, NOTE BLUE QTZ EYE @ 416.54m			
				416.66 - 417.65: PERV SILICF OR D-STUFS, LOCALLY CRYSTAL RICH BEDS, CLOSELY LAYERED(?) @ 70° NOTE LOC OF BLUE QTZ EYES.			
				417.65 - 419.71: BmFL(?) LOCALLY FP PHYRIC, LOCALLY HAS 1% PINKISH AMYGDULES.			

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DRILL HOLE NUMBER TA-3

FALCONBRIDGE LTD. EXPLORATION

Project Name: TH OPTION
Project Number: 229
Claim Number: 808969
Location: BENNY / CARTIER ONT.
Units (F/M): M
Date Started (MM/DD/YY): 10 / 30 / 88
Date Completed (MM/DD/YY): 11 / 09 / 88

Logged By: MICHAEL J. GRAY

Plotting Coords - Grid:
- North:
- East:
- Elev:
Grid Astron. Azimuth: ° ' "
Collar Dip: -62 ° 00 ' 00 "
Alternate Coords - Grid:
- North:
- East:
- Elev:
Collar Astro. Azimuth: 000 ° 00 ' 00 "

Start Depth:
Final Depth: 375.82

Collar Survey (Y/N): N
Multishot Survey (Y/N): N
RQD Log (Y/N): N
Pulse EM Survey (Y/N): Y
Plugged (Y/N): Y
Contractor: McKnight Drilling Company limited
Hole Size: BQ
Casing: 9.14m, LEFT IN
Core Storage: FALCONBRIDGE
UTM Coord.:

Comments:
Wedges At:

DEPTH	TYPE A/L/M/T/G	ASTRONOMIC AZIMUTH °, ', "	DIP	FLAG (OK, DO)	COMMENTS
29.57	A				
60.06	A				
90.55	A				
121.04	A				
151.52	A				
182.01	A				
220.48	A				
252.11	A				
273.48	A				
303.9°	A				
334.45	A				
364.94	A				

DEPTH	TYPE A/L/M/T/G	ASTRONOMIC AZIMUTH °, ', "	DIP	FLAG (OK,DO).	COMMENTS
182.30	T	011° 30' 00"	-61°	OK	
363.40	T	015° 30' 00"	-59°	OK	

FALCONBRIDGE LIMITED

FROM	TO	ROCK TYPE	COLOUR GRAIN SIZE	TEXTURES AND STRUCTURE	ALTERATION	MINERALIZATION	REMARKS
0.00	9.14 m	<CAS> CASING			→		OVERBURDEN
9.14	25.87	<DTUF> STUF DACITE-SILICEOUS TUFF, MINOR ANDESITE TUFF + SUDBURY BRECCIA + GABBRO DYKE	LT-M GREY APH-VFG	* POORLY - MOD LAYERED - LOCALLY WELL LAYERED DAC TUFF & SILICEOUS TUFF. LOCALLY MINOR SLST (?). SECTION IS CUT BY FG GDKES AND BY YOUNG AMYGDALOIDAL DACITIC DYKES.		TR - 1% Pð-PY, LOC TR SP, CPY	LITH: SA055540 14.00 - 17.00
				9.14-10.33: DTUF, FG, CRUDE LAYERING (?) C/A 30° (?) NOTE 2cm THICK CROSS-CUTTING SDBX-TYPE DYKE C/A 60°			
				10.33-10.83: "YOUNG FRESH DYKE" AND-DACITIC APHANITIC ≤ 5-10% 1-10mm AMYGD. NOTE CONC OF AMYGD AT CTCS. MED GREY GROUNDMASS TOP CTC, C/A, 70° BOT CTC, SHARP C/A 45			TS UP A STORM
			X	10.83-12.52: DTUF, MINOR STUF (WHITISH) LOCALLY POORLY LAYERED C/A LAYERING 50° LOWER CTC BX	-		12.19 - LOST H_2O

Hole No. TH-3

FALCONBRIDGE LIMITED

FROM	TO	ROCK TYPE	COLOUR GRAIN SIZE	TEXTURES AND STRUCTURE	ALTERATION	MINERALIZATION	REMARKS
				12.52 – 13.66 : GOKE?, FG LOC F-MG MOD GREEN, NON MAGNETIC, WEAKLY MAFIC PHYRIC(?). NOTE UPPER CTC HAS A 1-2cm THICK BRECCIA BAND (POSS YOUNG SDBX ?) TOP CTC C/A 25° BOT CTC C/A ~~10-50~~		-TR PY, LOC TR-1% SP NEAR UPPER CONTACT ASSOC W A 3-8mm THICK CALC VEIN.	NOTE 10cm THICK DTUF @ 13.37m (XENOLITH)
				13.66 – 17.33 : D-ATUF, M GREY – SLIGHT GREEN, POORLY LAYERED, LOCALLY MOD LAYERED C/A 70°		TR-<1% PY-PØ, LOC TR SP, CP	POSS INFLUX OF SEDS IN THIS INTERVAL ?
				17.33 – 18.25 : MASSIVE VFG GOKE. TOP CTC C/A 60° BOT CTC C/A 60°		TR PY-PØ, CPY	
				18.25 – 20.30 : D-ATUF. ± MINOR ARG SLST(?) (SAME AS 13.66-17.33m) LAYERING C/A 70° NOTE POSSIBLE NORMAL GRADED BEDS @ 18.65	-	TR PY-PØ, LOC TR CPY	

Hole No. TH-3

FALCONBRIDGE LIMITED

FROM	TO	ROCK TYPE	COLOUR GRAIN SIZE	TEXTURES AND STRUCTURE	ALTERATION	MINERALIZATION	REMARKS
				20.30 - 20.63: D-STUF ± 5% FELSPAR PHENOS (1mm) AND 1% FELSIC "SPOTS" (<1-2mm OVAL). LAYERING C/A 65-70°		TR PY-PO	
				20.63 - 21.73: D-STUF, VF-APH, LT GREY-BIEGE, POORLY-MOD LAMINATED. LAYERING C/A ~65° NOTE 5-15cm GOKE'S CROSSCUT @ C/A 65-80° LOCAL FP PHYRIC DTUF.		TR PY-PO, LOC TR SP. LOCALLY <1% SP ± A 5mm CALC VEIN (C/A 80°) AT A GOKE CTC.	
				21.73 - 22.15m: A-DTUF, MINOR STUF (15%) MOD UP WELL LAYERED C/A 65°		TR - <1% PY-PO. LOC @ 21.78 POSS 10mm STUF ± 5% VF DISS SP (?), HAS A REDDISH HUE	RECHECK SP LAYER ± B.NOC.
				22.15 - 22.93: GOKE(?) MASSIVE VF-FG. TOP CTC C/A 80° BT CTC C/A 80° STEMED WEAKLY MAFIC PHYRIC?		<1-1% PO BLEBS	

Hole No. TH-3

FALCONBRIDGE LIMITED

FROM	TO	ROCK TYPE	COLOUR GRAIN SIZE	TEXTURES AND STRUCTURE	ALTERATION	MINERALIZATION	REMARKS
				22.93 - 24.00: DTUF GRADES TO DTUF — SLST AS CRUDELY DEVELOPED PORPHYROBLASTS LIE IN THE NEXT INTERVAL. MOD LAMINATED C/A 30° NOTE 6cm THICK BX - DYKE @ C/A 20° INSITU - MINOR ROTATIONAL ± LOC SERP MX (?)		TR - <1% PY, LOC TR CP	
				24.00 - 25.87 : SLST - WITH DTUF COMPONENT. NOTE PALE GREENISH BANDS ± POORLY DEVELOPED 15% 2x5mm TO 5x12mm PORPHYROBLASTS		TR PY - PO LOC <1% SP IN A 1mm CALC STR @ 25.67 C/A 30°	
25.87	25.94	«FLT» FAULT	MED GREEN	SHEARED, BROKEN / BLOCKY SECTION ± MINOR (2-4cm) GREEN CLAY GOUGE. TOP C/A 75° BOT C/A 70-75° POSS INFILLED BY A FG DYKE AND LATER SHEARED (?)	- M SERV CHL - LOC CLAY 2mm GOUGE - 4mm CALC VEIN // CTC's	TR PY	

Hole No. TH-3

FALCONBRIDGE LIMITED

FROM	TO	ROCK TYPE	COLOUR GRAIN SIZE	TEXTURES AND STRUCTURE	ALTERATION	MINERALIZATION	REMARKS
25.94	28.31	<<SLST-DTUF>> SILTSTONE-DACITE TUFF	M-LT GREY	POORLY LAYERED SECTION OF SLST WITH 20% (?) DTUF? OR REWORKED TUFF. NOTE 10% 3-10cm THICK POORLY DEFINED LT-PALE GREENISH LAYERS c 10-15% M-DK GREY 16 UP TO 8x15mm. LAYERING C/A 70°		TR-<1% PY-PO	
28.31	30.31	<<GDKE>> GABBRO DYKE WITH INTERNAL SHEAR	M-DK GREEN-GREY	GDKE, MASSIVE LOCALLY SHEARED VF-FG DYKE. NOTE SHEAR/FAULT @ 28.66 C/A 25°. POSS 2 DYKES HERE. FIRST ONE AT 28.31-28.66 IS DK GREEN-GREY AND FLOODED c 15% CARBONATE. SECOND IS TYPICAL GREEN FG GDKE TOP CTC C/A~65 BOT CTC C/A~50 NOT DTUF? XENOLITH (?) 5-10cm NEAR BOTTOM CTC.	- LOC 5 <1-4mm CALC VEINS PROX TO SHEAR ; AT 29.31-29.50	<1% PY-PO	2 DYKES HERE?

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FALCONBRIDGE LIMITED

FROM	TO	ROCK TYPE	COLOUR GRAIN SIZE	TEXTURES AND STRUCTURE	ALTERATION	MINERALIZATION	REMARKS
30.31	50.78	«SLST» SILTSTONE WITH MINOR DACITE TUFF AND SANDSTONE	M-DK-LT GREY VF-FG	INTERVAL OF POOR-CRUDELY LAYERED SLST & SSTS & MINOR DTUF OR REWORK TUFF. A NUMBER OF DYKES (?) GDKE, MAFIC PHYRIC ETC CROSS-CUT THE INTERVAL.		TR-<1% PY-PO LOC TR SL(?)	
				30.31-34.12: POORLY INTERLAYERED SLST & FG SSTT & MINER SST (25%). LAYERING 5%/70°			
				34.12-34.52m: GDKE? MASSIVE, FG, WEAKLY (PO) MAGNETIC, VW FOLIATED(?) TOP CTC 10DEG BOT CTC 5-25°		TR PY-PO	
				34.52-34.82: SLST		TR PY-PO	
				34.82-35.39: GDKE, MASSIVE FG, SIM TO 34.12-34.52 TOP CTC 50° BOT CTC 75°		TR PY-PO	

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FALCONBRIDGE LIMITED

FROM	TO	ROCK TYPE	COLOUR GRAIN SIZE	TEXTURES AND STRUCTURE	ALTERATION	MINERALIZATION	REMARKS
				36.39 - 41.76 : SLST ± MINOR SST (SIM TO 30.51-34.12m). MOD LAYERED C/A 65°-60° NOTE LOCAL POORLY DEVELOPED WHITISH PB @ BASE SST "BEDS" i.e) 38.14 : 2x5mm, GREY LT. 39.49 : 1x2mm, WH-LT GREY (25%) DEFINE LAYERING NOTE COKE @ 36.89-37.02m C/A 70-80°		TR PY-PO, UC TR SP?	
				41.76 - 50.78 m : M-DK GREY FG SST. DARKER THAN ABOVE INTERVAL BUT VFG-FG SST DOMINATED. NOTE SST GRANSIZE & TEX HIGHLIGHTED BY ALT" ENVELOPES. LAYERING C/A 60-65° AS DEFINED BY TRANS of PB. PB UNCOMMON, LOCALLY DEFINE LAYERING BOT CTC TRANSITIONAL LOCALLY NOTE 5-10cm THICK LAYERS ± 2-3mm FRAGS / CLASTS.		TR PY-PO	LITHO : SAMPLE 41 47.00-50.00m

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FALCONBRIDGE LIMITED

FROM	TO	ROCK TYPE	COLOUR GRAIN SIZE	TEXTURES AND STRUCTURE	ALTERATION	MINERALIZATION	REMARKS
50.78	64.00	<<DTUF>> DACITE TUFF, MINOR SILTSTONE	LT GREY ½ MED GREY	± CRUDELY LAYERED - MASSIVE F DTUF WITH 10-15% SLST, AND MINOR STUF. DTUF IS LOCALLY FP PHYRIC 2-10% <1-1mm AND LOCALLY HAS 2-9mm LAPILLI ? LAYERING C/A 65° BOT CTC TRANSITIONAL	- SER	TR - <1% PY-PO	

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FALCONBRIDGE LIMITED

FROM	TO	ROCK TYPE	COLOUR GRAIN SIZE	TEXTURES AND STRUCTURE	ALTERATION	MINERALIZATION	REMARKS
64.00	113.89	<<SLST>>	M-DK GREY	CRUDELY LAYERED SLST-ARG, MINOR ATVF(SS) INTERMIXED LOCALLY. MINOR GOKES CROSSCUT THIS SECTION.		TR- <1% PY, LOC TR CP	
		SILTSTONE-ARGILLITE	VFG	SILTSTONE-ARG IS CONSPICUOUSLY PORPHYROBLASTIC, ~ 30% OF THE BED HAVE 10-25% 2x4mm TO 4x12mm DISCOID PB. THIS SECTION IS RELATIVELY HOMOGENEOUS looking OVERALL. LAYERING C/A ~ 60°			
				64m - 76.87m: SLST-ARG AS ABOVE			
				76.87 - 78.48m: SLST-ARG E 10-15% GREENISH ATVF - SLST BEDS. (ONE OF THESE COULD BE A GOKE) LAYERING C/A 70-80°			
				78.48 - 80.92: SLST-ARG			F/C ??

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FALCONBRIDGE LIMITED

FROM	TO	ROCK TYPE	COLOUR GRAIN SIZE	TEXTURES AND STRUCTURE	ALTERATION	MINERALIZATION	REMARKS
				80.92-81.38 : GDKE, MASSIVE, FG. TOP CTC 30° BOT CTC 65°	-M 3-8cm THICK QTZ VEINS c/A 60°	~3-5% FG PØ, <1% CPY DISSEM ALONG THE MARGINS OF AND WITHIN QTZ VEINS. NOTE SVS CONC @ 81.04-81.32m	ASSAY: SA05 80.92-81.38
				81.38-99.24: ARG-SLST REL HOMOGENEOUS, CRUDELY LAYERED MINOR ATUF (SIMILAR TO 78.48-80.92)		TR-<1% PY-PØ, SVS ASSOC c ANDESITIC PORTIONS LOC TR CPY	LITHO: SA05542 81.38-84.38
			*	99.24-103.18: ARG-SLST, MINOR ATUF. THIS SECTION POOR-MOD DISTINCTLY LAYERED COMPARED TO ABOVE SECTION. ALSO NOTE MINOR DTUF(?) FP PHYRIC. LAYERING c/A 75° 5% LAYERS HAVE PORPHROBLASTS.		TR-<1% PY-PØ	CHECK FOR GRADED BEDDING -NOTE POSS QE?

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FALCONBRIDGE LIMITED

FROM	TO	ROCK TYPE	COLOUR GRAIN SIZE	TEXTURES AND STRUCTURE	ALTERATION	MINERALIZATION	REMARKS
				103.18 - 103.60: GOKE, MASSIVE, FG. APPEARS LIKE AN ANDESITE TUFF BED. TOP CTC c/a 80° BOT CTC c/a 65°	- LOC 5mm - 5cm THICK CALC M-CG VEINS	TR PY-PØ, TR CPY, SP	
				103.60 - 113.89 m: ARG - SLST (DK GREY - M GREY) WITH 5% GREENISH ANDESITIC BEDS. LAYERING IS CRUDE. LAYERING c/a 65° PORPHROBLASTS ARE SUBTLE M GREY - DK GREY, IN 10% OF LAYERS. BOT CTC c/a 60°? BASED ON BX TEX	- LOC W 2-10mm QTZ VEINS c/a 60-80°	TR - <1% PY	
113.89	114.67	<FLT>> FAULT	DK GREY AND M GREY FG - XX FRAGS 2-3mm	FAULT INCLUDES i) BRECCIATED / DISRUPTED ARG, ii) BLOCK SECTION ± FAULT GOUGE, iii) ATUF, LOCALLY BRECCIATED	- LOC M-S CALC VEINS 1-3mm ± 3mm CALCAREOUS ENVELOPES. - CLAY GOUGE IN BLKY SECTION	1-2% DISS PØ	
				113.89 - 114.12: DISRUPTED (SLUMPED?) OR BX ARG			
				114.12 - 114.22: BLKY REORILLED SECTION ± 3cm THICK GOUGE c/a 70° SHARP			
				114.22 - 114.67: ATUF, MASSIVE, LOCALLY FP PHYRIC BOT CTC c/a ~60° VAGUE			

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FALCONBRIDGE LIMITED

FROM	TO	ROCK TYPE	COLOUR GRAIN SIZE	TEXTURES AND STRUCTURE	ALTERATION	MINERALIZATION	REMARKS
114.67	117.03	<<SLST>> SILTSTONE WITH MINOR DACITE TUFF.	DK GREY - M GREY LOC LT GREEN FG	POORLY - CRUDELY LAYERED ARG - SLST ± MINOR (15%) DTUF, AND 10% ATUF ?? LAYERING C/A BOT CTC C/A 70° 114.67 - 114.91: ARG-SLST ± 20% INTERLAYERED DTUF LAYERING C/A 45-60° 114.91 - 115.19: ARG-SLST 115.19 - 115.54: MOTTLED CREAM - LT GREEN SECTION OF ATUF / GOKE (?) BOT CTC C/A 45° 115.54 - 116.19: ARG - SLST CRUDELY LAYERED C/A 70° 116.19 - 116.55: DTUF, RELATIVELY MASSIVE 116.55 - 117.03: ARG - SLST, POORLY LAYERED C/A 70-80°	- VW [redacted] <1-1mm CALC VEINS - STRANGE BLEACHING (?) IN A ZONE OF ATUF? OR GOKE?	<1% PO - PY AS FG DISSEM. LOC 1-2% PY, TR CPY @ 116.05 - 117.03.	
117.03	122.93	<<DTUF>> DACITE TUFF				1-2% PY	LITHO: SA05543 117.10 - 119.50

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FALCONBRIDGE LIMITED

FROM	TO	ROCK TYPE	COLOUR GRAIN SIZE	TEXTURES AND STRUCTURE	ALTERATION	MINERALIZATION	REMARKS
122.93	125.95	«SLST» SILTSTONE - ARGILLITE	DK GREY VFG - FG	POORLY LAYERED ARG - SLST. LAYERING C/A 65° PORPHRO BLASTS ABSENT, MINOR LT GREY TUFF COMPONENT LOCALLY. NOTE CONTORTED/SLUMPED SECTION @ 125.50 - 125.71 m TOP CTC 65° BOT CTC ~60-70°	- W 1-3mm CALC VEINS C/A 70-20°	- <1-3% PØ AS PATCHES, BLEBS & DISSEMINATIONS, LOC TR CPY i.e.) 122.93 - 125.50 : 1-2% PØ 125.50 - 125.71 : <1-1% PØ TR CPY 125.71 - 125.95 : 1-3% PØ ASSOC C̄ CALC VEINS	
125.95	128.42	«DTUF» DACITE TUFF	LT GREY - BIEGE VF - APH	CRUDELY MODERATELY LAYERED DTUF WITH MINOR CARB (<5%) UNIT(?) (OR VEINS). A CONSPICUOUS YELLOW - BIEGE ALTN(?) IS PRESENT IN 15% OF THIS INTERVAL // THE FOLIATION. LAYERING C/A 65° BOT CTC SHARP C/A 70°	- W LOC W-M 2-25 mm CALC VEINS ± PØ ± PY @ 127.10 - 128.42 - LOC W SER ON FRAC COATINGS - APPEARS TO HAVE AN UNIDENTIFIED STRAW - BIEGE COLOURED ALTN AS BANDS // FOLIATION (HARD)	- <1 - 10% PØ ± PY, LOC TR CPY ASSOC. WITH CALC VEINS(?)/ BANDS AND AS DISSEM BLEBS THRO THE DTUF. i.e.) 125.95 - 126.22 : 2-3% PØ 126.22 - 126.67 : <1-1% PØ 126.67 - 127.74 : 3-5% PØ, TR CPY 127.74 - 127.98 : 5-8% PØ, TR CPY 127.98 - 128.10 : 10% PØ 128.10 - 128.42 : 5% PØ	~~ASSAY: SA0 125.95~~ ASSAY: SA05681 ; 125.95 - 127.10 ASSAY: SA05682 ; 127.10 - 127.74 ASSAY: SA05683 ; 127.74 - 128.42
128.42	136.30	«GDKE» GABBRO DYKE	DK - MED GREEN VF - F/MG	GDKE, MASSIVE, C.I 60% MAFICS. NOTE CHILLED MARGINS NEAR TOP CTC FROM 128.42 - 128.82, & THE BOTTOM CTC 136.15 - 136.30 BOT CTC C/A 55° SHARP	- VW CALC ± QTZ VEINS 1-30 mm - W 1-3mm EP VEINS	<1-1% PØ, TR CPY	

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FALCONBRIDGE LIMITED

FROM	TO	ROCK TYPE	COLOUR GRAIN SIZE	TEXTURES AND STRUCTURE	ALTERATION	MINERALIZATION	REMARKS
136.30	140.19	«DTUF - STUF»	WH-LT GREY	MASSIVE TO POORLY LAYERED DTUF-STUF CROSSCUT BY 2 GDKES. DTUF-STUF IS APHYRIC EXCEPT FOR 3-5% 1-2mm MAFIC CLOTS THAT ARE LARGELY REPLACED BY PØ. THE GDKES ARE VF-FG MASSIVE	-VW-W 1-5mm CALC STR, W-M IN DYKES	2-6% STRONGLY DISSEM PØ, MINOR PY. LOCAL BATCHY PØ	
		DACITE - SILICEOUS TUFF, MINOR GABBRO DYKES	VF-APH		- POSSIBLY SILIC F @ 136.40 - 136.75m	136.52-136.63: 1-3% PØ 136.63-136.90: 5-8% PØ-PY 136.90-137.70: 3-5% PØ-PY 137.70-139.05: 2-3% PØ-PY, TR SP(?) 139.05-139.52: 1-2% PY 139.52-140.19: 1-3% PY, TR CP	ASSAY: SA05684; 136.30-137.30 ASSAY: SA05685; 137.30-138.00 ASSAY: SA05686; 138.00-139.10 ASSAY: SA05687; 139.10-139.52 ASSAY: SA05688; 139.52-140.19
				136.30-139.73: D-STUF LAYERING C/A 70°			
				138.73-139.05: GDKE VFG, MASSIVE TOP CTC C/A 65° BOT CTC C/A 65° (FAULT)		NOTE PØ NEAR TOI OF INTERVAL APPEARS TO REPLACE MAFIC CLOTS(?) NOTE F-MG EUHEDRAL PYRITE.	
				139.05-139.10: FAULT Ē 4mm MED GREEN-GREY GOUGE C/A 65° AND SLICKENLINES ON FOLIATION SURFACES.			
				139.10-139.52: DTUF WITH LOCAL 10mm LAYERS OF VF FP PHYRIC XL TUFF. LAYERING C/A 70° BOT CTC C/A 65°			
				139.52-140.19: GDKE, MASSIVE, VFG BOT CTC C/A 70-75° NOTE SLICKENLINES ON BOT CTC FOL^N PLANE.			
140.19	140.50	«MSVS» MASSIVE SULPHIDE	BRONZE Ē DK GREEN	MASSIVE PY Ē PØ IN AN ATUF(?) HOST, VARIABLY BRECCIATED. THE BOTTOM 13cm TRUNCATES THE UPPER SECTION IN THE FORM OF A DISTINCT PØ-RICH MASSIVE SULPHIDE Ē 20% ATUF BX FRAGS 2-10mm ROUNDED-SUBROUNDED. NOTE BX CONC NEAR CTC, (INTERNAL CONTACT C/A 70°). LOWER PART MSVS BANDING C/A 75° UPPER PART MSVS BANDING C/A 35-70°	-W IRREG CALC VEINS(?)/BX VEINS 3-10mm THICK - STRONG PERV CHL^C OF THE ATUFS.	POORLY LAYERED/BANDED MASSIVE PY-PØ. PY TENDS TO BE STRONGLY "DISSEMINATED". THE PØ IS POSSIBLY LATE (HCG) AND SUPERIMPOSED ON THE PY MINERALIZATION 140.19-140.37m: 95% PY, 15% PØ 140.37-140.50m: 60% PØ, 20% PY	THIS BRECCIA TEXTURE Ē ATUF MX/FRAGS IS SIMILAR TO TH-1, TH-2, MAIN ZONE INTERSECT. ASSAY: SA05689; 140.19-140.50m

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FROM	TO	ROCK TYPE	COLOUR GRAIN SIZE	TEXTURES AND STRUCTURE	ALTERATION	MINERALIZATION	REMARKS
140.50	141.27	≪ATUF≫	DK GREEN	MODERATE - POORLY LAYERED, (CONTORTED LAYERING), FINE TO ULTRAFINE TUFFS.	- S PERV CHL	- 2-5% PO, PY AS IRREGULAR 1-3mm STR AND BRECCIA BANDS	ASSAY: SA05690 ; 140.50 - 141.27m
		ANDESITE TUFF	VF - FG	LAYERING 0-45°/a TOP CTC C/A 70-75° SHARP BOT CTC C/A 45°? UNCLEAR	- W-M IRREG CALC VEINS 1-8mm CONT - DISCONTINUOUS.		
141.27	160.53	≪A-DTUF≫	M GREY - GREEN	CRUDELY - POORLY LAYERED A-DTUF (??) DIFFICULT TO PIN DOWN LAYERING DUE TO THE ALT'N, ∥ TO SUB ⊥ TO LAYERING, & VAGUE OUTLINES. RELATIVELY HOMOGENEOUS, ASIDE FROM THE ALT'N, EXCEPT AN INCREASE IN MAFIC CONTENT DOWN THE INTERVAL.	- SEMI-PERV SIL'FN (?) AS MOTTLED PATCHES (?) TH-O SECTION. LOC & TOUR GRAINS	TR - 1% PO, PY, LOC TR CPY.	COULD THE STR'S & TOUR REPRESENT A DISCORDANT ALT'N ZONE CUTTING THRU A SEMI-CONFORMABLE "SEMI-PERV SILFN" ZONE?
		ANDESITE-DACITE TUFF	FG	LAYERING C/A 60°(?) BOT CTC C/A 55-60	- W-MODERATE LT GREY 2-30mm STR (POSS ONLY 1-3mm WITH A 5-15mm ALT'N ENVELOPE) THAT HAVE <1-5% BLK TUR <1-1x3mm GRAINS.	a) 141.27 - 145.39 : TR-1%PY 145.39 - 160.53 : TR-<1%PY TR CC @ 146.60m	(TS) STRINGERS (CL)
				141.27 - 147.75 : A-DTUF, MOTTLED, 15% CALCITE IN THE TOP 20cm OF THE INTERVAL, M GREEN-GREY & LT-MED GREY PATCHES. LAYERING C/A 60°?? NOTE LOCAL BLEBBY TOUR GRAINS.	a) 142.77 - 145.39 : W-M 145.39 - 148.81 : VW - W 148.81 - 150.00 : W-M 150.00 - 155.00 : W 155.00 - 160.53 : W-M LOC M-S		ASSAY : SA05691 141.27 - 142.77 LITHO : SA05544 142.77 - 144.27 ASSAY : SA05692 144.27 - 145.77 ASSAY : SA05693 145.77 - 147.27 ASSAY : SA05694 147.27 - 148.77
				147.75 - 160.53 : ATUF, SIM TO ABOVE SECTION THOUGH MORE MAFIC IN THIS INTERVAL. LAYERING INDISTINCT, MOTTLED TH-O. LESS SEMI-PERV SILICIFICATION TH-O.	- W CHL BETW SILFN PATCHES		

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FALCONBRIDGE LIMITED

FROM	TO	ROCK TYPE	COLOUR GRAIN SIZE	TEXTURES AND STRUCTURE	ALTERATION	MINERALIZATION	REMARKS
							ASSAY: SA05695 148.77 - 150.27
							ASSAY: SA05696 150.27 - 151.77
							ASSAY: SA05697 151.77 - 153.27
							ASSAY: SA05698 153.27 - 154.77
							ASSAY: SA05699 154.77 - 156.27
							ASSAY: SA05700 156.27 - 157.77
							ASSAY: ~~157.77~~ SA05701 157.77 - 159.27
							ASSAY: SA05702 159.27 - 160.53
160.53	161.68	<<GDKE>> GABBRO LYKE	DK GREEN FG	MASSIVE FG GDKE. COLOUR INDEX > 60% MAFICS. BOT CTC @ 70°.	- W, LOC M +3mm CALC STRINGERS ± EPI.	TR- PD, PY	

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FALCONBRIDGE LIMITED

FROM	TO	ROCK TYPE	COLOUR GRAIN SIZE	TEXTURES AND STRUCTURE	ALTERATION	MINERALIZATION	REMARKS
161.68	170.15	<< ATUF>> ANDESITE TUFF(?) OR MASSIVE FLOW(?)	M-OK GREY-GREEN	RELATIVELY MASSIVE, HOMOGENEOUS LOOKING ATUF, OR POSS AMFL(?). LOCALLY NOTE FP PHYRIC SECTIONS 1-5% <1-1mm, MIGHT DEFINE BEDS(?) C/A ≥60°. ANOTHER POSSIBILITY IS THAT THE ENTIRE SECTION IS FP PHYRIC, BUT IS LARGELY OBSCURRED BY THE VARIOUS ALTERATIONS. BOT CTC IRREG NOTE TOURMALINE CONTENT DISSEMINATED TH-O <1-1% OVERALL. INCLUDING VEIN TOUR, THEN 2% OVERALL. NOTE 5% WH. FRAGS(?) 1-10cm @ 166.40-169.18	- MOTTLED PATCHES TH-O POORLY DEFINED, SILIC FN(?) AS IN PREVIOUS INTERVALS OR CO_3 ALTN AS SOME OF THESE HAVE A SUBTLE DISSEMD FIZZ - VW-W WISPY VEINS 1-5mm ± TOURMALINE (EPI?) LOC MOD @ 161.68-163.18 - W QTZ VEINS 1-30mm ± BLK TOUR AS CLUSTERS & SELVAGE, C/A 30-45°	TR PY TH-O MAINLY ON FRAC COATINGS	~~ASSAY~~: SA5703 161.68-163.18 ASSAY: SA05704 163.18-164.68 ASSAY: SA05705 164.68-166.18 ASSAY: SA05706 166.18-167.68 ~~ASSAY~~: SA05707 167.68-169.18 ASSAY: SA05708 169.18-170.15
170.15	178.92	<<FLT>> FAULT ZONE	M, LOC LT GREY -SL GREEN	FAULT ZONE IN ANDESITIC TOURMALINE BEARING UNIT DESCRIBED ABOVE. THE INTERVAL INCLUDES GOUGES, BLOCKY SECTIONS, SLICKENLINES ON FRACTURES AND MINOR CLAY(?) ON A NUMBER OF FRACTURES. SECTION IS LIGHTER GREY THAN ABOVE INTERVAL (BLEACHING?) LOCALLY FP PHYRIC AS IN THE ABOVE INTERVAL, ALSO LOCALLY WHITE FRAGS(?). 170.15-170.50: GOUGE, MASSIVE, FG BOT CTC 60°/a 170.50-171.52: ATUF ± 5-10% WHITE FRAGS(?), 1% TOUR 171.52-171.74: QTZ-CHL-CALCITE VEIN C/a ~60° 171.74-176.76: ATUF ± <5% WH. FRAGS, 1% TOUR. 176.76-178.92: MASSIVE VFG ATUF(?) POSS AMFL(?)	- LOCALLY MOTTLED/SANDED PATCHES (20%), IRREG W CALCAREOUS ± SILIC FN - W QTZ-TOUR ≤1-5mm LT GREY VEINS C/a 30-50° NOTE W-M VEINS @ 176.76-178.92m (2% TOUR) ± CLUSTERS OF TOUR. - LOC M CHL ON W FRAC COATINGS	TR PY-PO TH-O	ASSAY SA05709 170.50-172.00 ASSAY: SA05710 172.00-173.50 ASSAY: SA05711 173.50-175.00 ASSAY: SA05712 175.00-176.50 ASSAY: SA05713 176.50-178.00 ASSAY: ~~SA05~~ A5714 178.00-179.50

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FALCONBRIDGE LIMITED

FROM	TO	ROCK TYPE	COLOUR GRAIN SIZE	TEXTURES AND STRUCTURE	ALTERATION	MINERALIZATION	REMARKS
178.92	190.53	<<ATUF>> ANDESITE TUFF OR ANDESITE FLOW	M GREY - GREEN	RELATIVELY MASSIVE, HOMOGENEOUS LOOKING, LOC FP PHYRIC SIMILAR TO ABOVE INTERVALS, TOURMALINE BEARING ATUF. LAYERING CRUDE NEAR BOT OF INTERVAL(?) C/A 65° NOTE A MARKED DECREASE IN MOTTLING/ BLEACHING AT 187.00 m. LOCALLY 2% TOUR OVER 50cm SECTIONS. LOC GOYK @ 186.20 - 186.28 m	- W MOTTLED / PATCHY (mostly) BLEACHED CALCAREOUS ALT^N, TO 187.00 m (10-20%), LOC SPOTTY ± TOUR CLUSTERS SOME RADIATING. - W - VW QTZ-TOUR±EPI 1-5mm STR TH-6 C/A 45° - LOC VW CHL/SER	TR PY-PO TH-0 LOC <1% PY @ 186.37, <1% PO @ 187.9%, ALSO TR SP DISSEM @ 186.98 m	ASSAY: SA05715 179.50 - 181.00 ASSAY: SA05716 181.00-182.50 ASSAY: SA05717 182.50 - 184.00 ASSAY: SA05718 184.00 - 185.50 ASSAY: SA05719 185.50-187.00 ASSAY: SA05720 187.00 - 188.50 ASSAY: SA05721 188.50 - 190.53

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FROM	TO	ROCK TYPE	COLOUR GRAIN SIZE	TEXTURES AND STRUCTURE	ALTERATION	MINERALIZATION	REMARKS
190.53	197.03	<<DTUF>> DACITE TUFF, poss. FLOW(?)	LT-M GREY VF MX M CX	DACITE TUFF LOCALLY CRUDELY LAYERED, FP PHYRIC TH-O 3-10% (5%), <1-3mm (1-2mm) WHITE PHENOS WITH FUZZY OUTLINES. REL HOMOGENEOUS IF THE ALT^N IS IGNORED. GOOD XL RICH BEDS ARE NOT OBSERVED LAYERING ? 65°? BOT CTC ~ 45°	- MOST CONSPICUOUS IS WEAK LOC MODERATE-S SER - TOUR(5%) ASPY 1-2mm STR WITH POORLY DEFINED OUTLINES AND IRREG NATURE (NOTE FP ARE PRESERVED) ie) 190.53-193.80: M-S 193.80-194.68: W 194.68-195.50: M 195.50-196.10: M-S 196.10-197.03: W, NOTE TOUR CONTENT <<1% IN THIS SECTION - LOC CARB ± QTZ 1-2mm STR - MOTTLING GENERALLY ABSENT EXCEPT @ 194.20-194.50 (SILF^N?)	TR-1% PY, PO TH-O, LOC GA ON FRACTURE. ie) 190.53-196.30: TR PY-PO MINOR GA @ 195.72.	ASSAY: SAO5722 190.53-192.03 LITHO: SAO 192.03-193.53 ASSAY: SAO5723 193.53-195.03 ASSAY: SAO5724 195.03-197.03 NOTE TOUR ~5% DISS IN SERICITIC STR
197.03	198.50	<<FLT>> FAULT	LT GREEN & WHITE FG	FAULT INCLUDES AN ALTERED GOUGE, A GOUGE SECTION AND BRECCIATED SECTION OF DTUF. 197.03-197.49: SHEARED GOUGE, CHLORITIC, SHEAR ~70° 197.49-197.55: CLAY GOUGE AT GOUGE-DTUF CTC ~50° 197.55-198.50: CHL VEINED & BRECCIATED DTUF	- S PERV CHL ALT^N OF GOUGE, AND CARBONITIZATION - CHL FRAC STWK	TR-3% PY, LOC TR CPY. TR PY 1-2% PY 1-3% PY, PO, TR CPY	ASSAY: SAO5725 197.03-198.50

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FROM	TO	ROCK TYPE	COLOUR GRAIN SIZE	TEXTURES AND STRUCTURE	ALTERATION	MINERALIZATION	REMARKS
198.00	208.08	<<DTUF>> DACITE TUFF, POSS. FLOW	LT-M GREY VFG MX M CX	DTUF WITH LOCAL CRUDE-POOR LAYERING AND FP PHENOS TH-O (SIM TO 190.53-197.03). BOTTOM 90cm (207.18 - 208.08) IS MOTTLED, LOSS IN SITU BRECCIATED APPOX <1-1% TOUR IN THIS INTERVAL. * LAYERING C/A 65-70°	- VW- W CHL AS FRAC COATINGS, LOC S STWK <1-1mm CHL VEINLETS @ 200.73-201.18, 207.08-207.43. - W LOC M WISPY SER ± TOUR± EP± CHL C/A 45-70 - LOC WH-LT GREY 3cm-30mm QTZ VEINS C/A 40-80°	TR-<1% PO, PY LOC TR CPY @ 203.69m	ASSAY: SA05726 198.00 - 200.00 ASSAY: SA05727 200.00 - 201.50 ASSAY: SA05728 201.50 - 203.00 ASSAY: SA05729 203.00 - 204.50 ASSAY: SA05730 204.50 - 206.00 ASSAY: SA05731 206.00 - 208.08
208.08	209.74	<<ATUF-CARB>> INTERLAMINATED ANDESITE TUFF AND CARBONATE UNIT	WH-LT GREY & DK DULL GREEN-GRY	POORLY - MODERATELY LAMINATED CARB UNIT WITH ATUF. LAYERS 2-30mm (8mm). LAYERING C/A 65-70° LOC C/A 80° 208.08-208.71: ATUF, POORLY LAYERED, <5% CARB. 208.71-208.98: CARB UNIT, E 15% 1-4mm ATUF LAYERS GENTLY FOLDED 208.98-209.28: POORLY INTERLAYERED ATUF & CARB (50%), LOOKS VEINED. 209.28-209.74: CARB WITH 25% ATUF, LOC MASSIVE GRANULAR 15cm THICK SECTION	- W CALC ± QTZ 1-5mm IRREG STR TH-O - STRANGE BROWNISH BANDS (WISPY BIOTITE?) IN THE ATUFS	TR-3% PO-PY ie) 208.08-208.71: 2-3% PO 208.71-209.74: TR-1% PY	POSSIBLY VEIN CARB TH-O ASSAY: SA05732 208.08-208.71 ASSAY: SA05733 208.71-209.74

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FROM	TO	ROCK TYPE	COLOUR GRAIN SIZE	TEXTURES AND STRUCTURE	ALTERATION	MINERALIZATION	REMARKS
209.74	228.41	≪ATUF≫	M GREY-GREEN	POORLY LAYERED ATUF ± 5-15% WHITE DRAWN-OUT FRAGMENTS. MX IS ANDESITIC FG. WHITE FRAGS RANGE 5mm x 20mm TO 5cm x ≥ 10cm. REL HOMOGENOUS LOOKING. LOCALLY MORE WELL LAYERED SECTION ± STUF'S. LAYERING C/A 60-65°	-LOC M-CK QTZ-EPI VEINS 5mm-3cm THICK C/A 60, 5, 80°	TR-2% PY-PO, LOC TR CPY.	LITHO: SAO 222.00 - 225.00
		ANDESITE TUFF		NOTE APPARENT <1-1% DISSEM TOUR TH-0(MX).	- W LOC MOD SUBTLE CHL ± EPI WISPY STR ± DISSEM BLK TOUR. SIM TO PREVIOUS INTERVALS SER-TOUR, BUT V. DIFFICULT TO SEE DUE TO POOR COLOUR/TEXTURE CONTRAST. NOTE STR ARE BETTER DEFINED WITH INCREASED TOUR CONTENT BETWEEN 224.25-228.41m	ie) 209.74 - 213.55: TR-<1% PO TR CP @ 212.21, 212.55 213.55 - 215.49: 1-2% PO-1% TR CP @ 214.38 215.49 - 218.54: <1% PO 218.54 - 220.31: 1-2% PO 220.31 - 221.06: 1% PO-PY 221.06 - 221.36: 3% PY-PO 221.36 - 222.86: 1-2% PY-PO 222.86 - 228.41: <1% PO	ASSAY ??? COR. SUIT HLG
				209.74 - 210.82: MOD-WELL LAM ATUF ± STUF, <1-3mm LAMINATIONS. NO WH FRAGS			
				210.82 - 220.31: ATUF ± 5-10% WH FRAGS			
				220.31 - 220.79: GDKF, MASSIVE VEG, TOP CTC C/A 70° BOT CTC C/A 55°			
				220.79 - 228.41: ATUF ± <5% WH. FRAGS, FRAGS DECREASE IN % DOWN THIS INTERVAL. DISTINCT INCREASE IN OVERALL TOUR ~~SEEN~~ IN THIS INTERVAL ie) 224.25-228.41 1-2% TOUR. MOD LAMINATED TOWARD THE BOT OF THIS INTERVAL.			

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FALCONBRIDGE LIMITED

FROM	TO	ROCK TYPE	COLOUR GRAIN SIZE	TEXTURES AND STRUCTURE	ALTERATION	MINERALIZATION	REMARKS
228.41	230.39	ANDESITE TUFF – CARBONATE UNIT << ATUF >>	WH-GREY & M-DK GREEN	INTERLAYERED ANDESITE TUFF WITH 10 - 30cm THICK CARB UNIT BANDS(?)/ BEDS(?)	– w.-m CALC STRINGERS	TR PY - PO	
230.39	232.07	CARBONATE UNIT << CARB >>	LT GREY - PIST GREEN	LT GREEN / GREY POORLY LAYERED(?) CARB UNIT, LOCALLY SKARNIFIED(?) TO EPIDOTE.	– QTZ PATCHES THROUGH-OUT – EPI AS STR + BANDS	TR PY - PO	
232.07	234.48	CARBONATE UNIT WITH ANDESITE TUFF << CARB - ATUF >>	WH-LT GREEN + M GREEN	INTERBEDS OF SKARNIFIED(?) CARBONATE + ANDESITE TUFF (< 5% WHITISH FRAGMENTS)	– EPI WISPY STR THROUGH-OUT	TR - <1% PY-PO	

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FALCONBRIDGE LIMITED

FROM	TO	ROCK TYPE	COLOUR GRAIN SIZE	TEXTURES AND STRUCTURE	ALTERATION	MINERALIZATION	REMARKS
234.40	237.12	BASALTIC-ANDESITE TUFF <<BTUF>>	DK GREY-GREEN	CRUDELY LAYERED? <5% WHITISH FRAGMENTS	-W EPIDOTE + CALCITE STRINGERS	TR PY-PO	
237.12	238.54	GABBRO DYKE <<GDKE>>	DK GREEN	MASSIVE, VF-FG	-VW-W CALCITE STRINGERS	TR PY-PO	
238.54	241.35	CARBONATE UNIT (SKARNIFIED?) <<CARB>>	WHITE & GREEN & PINKISH SECTIONS	SKARNIFIED(?) CARBONATE UNIT WITH THIN GABBRO DYKES	-LOC CALC VEINS -SKARNIFIED(?) TO EPIDOTE	-TR PY-PO	

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FALCONBRIDGE LIMITED

FROM	TO	ROCK TYPE	COLOUR GRAIN SIZE	TEXTURES AND STRUCTURE	ALTERATION	MINERALIZATION	REMARKS
241.35	247.79	ANDESITE - BASALT TUFF <<A-BTUF>>	DK BROWN - GREEN	CRUDELY LAYERED, FG, HOMOGENEOUS LOOKING ANDESITE - BASALT TUFF (?) OR PORS FLOW (?)	- STRANGE LT GREY BANDS - ENVELOPES ASSOC WITH QTZ VEINS	TR PY	
247.79	248.15	CARBONATE UNIT (?) <<CARB>>	WHITE - GREEN	CRUDELY LAYERED, SKARNIFIED (?) SECTION SIM TO 230.54 - 241.35.	- IRREG EPI M STRINGERS - LOC QTZ VEINS	TR PY	

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FALCONBRIDGE LIMITED

FROM	TO	ROCK TYPE	COLOUR GRAIN SIZE	TEXTURES AND STRUCTURE	ALTERATION	MINERALIZATION	REMARKS
248.15	254.72	ANDESITE TUFF ⇐ ATUF ⇒	MED GREY-GREEN	POORLY LAYERED APHYRIC ANDESITIC TUFF	- W. QTZ-TOUR VEINS - LOC STRONG EPI VEINLETS IMPOSE A PSEUDO AGRYASIVE EPI. SECTION	TR PY	
254.72	259.50	ANDESITE-DACITE TUFF ⇐ A-DTUF ⇒	BIEGE-GREY	FELDSPAR PHYRIC 5-10%, ≤1-1mm FP A-DACITE TUFF	- EPI² BANDS UP TO 60 cm THICK	TR PY	

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FROM	TO	ROCK TYPE	COLOUR GRAIN SIZE	TEXTURES AND STRUCTURE	ALTERATION	MINERALIZATION	REMARKS
259.50	265.57	ANDESITE + CARBONATE UNIT ≪ ATVF + CARB≫	LT- M GREY + PIST GREEN	"BANDED" INTERLAYERED CARB >15cm THICK WITH ANDESITE TUFF.	- SKARN(?) EPI IN CARBONATE SECTIONS	TR PY	
265.57	268.20	ANDESITE - BASALT TUFF ≪ A-B TUF≫	DK GREY - GREEN	ANDESITIC - BASALTIC TUFF WITH STRONGLY RECRYSTALLIZED BANDS + WHITE FRAGMENTS.	- MINOR EPI	TR PY	
268.20	272.81	EPIDOTE ZONE IN CARBONATE(?) ≪EPI≫	PIST GREEN	VFG EPI, - CALCAREOUS, MASSIVE EPIDOTE. LOC NOTE PINK DISCONTINUOUS BANDS	- HEAV EPI	TR	

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FALCONBRIDGE LIMITED

FROM	TO	ROCK TYPE	COLOUR GRAIN SIZE	TEXTURES AND STRUCTURE	ALTERATION	MINERALIZATION	REMARKS
272.81	276.85	EPIDOTE-QUARTZ ZONE <<EPI>>	GREEN + PINK	GREEN & PINK ALTERED SECTION EPIDOTE - QTZ - HEMATITE PIST GREEN WISPY BANDS	- PERV EPI + QTZ - ALTD HEM THROUGH-OUT PINKISH AREAS	TR PY	
276.85	279.20	ANDESITE TUFF <<ATUF>>	GREEN + GREY	RECRYSTALLIZED ANDESITE TUFF MOD LAYERED(?)	- W. WISPY EPI BANDS / STR	TR PY	
279.20	280.70	DACITE DYKE <<DAKE>>	M GREY VFG-APH	MASSIVE APHYRIC GREY DYKE	- W/E QTV	- < 1% PO	
280.70	284.72	ANDESITE TUFF <<ATUF>>	DK GREEN VF-FG	SIM TO 276.85-279.20	- W/E EPI BANDS	TR PY	

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FALCONBRIDGE LIMITED

FROM	TO	ROCK TYPE	COLOUR GRAIN SIZE	TEXTURES AND STRUCTURE	ALTERATION	MINERALIZATION	REMARKS
284.72	285.91	ANDESITE TUFF - BANDED <ATUF>	DK GREEN - SLIGHT PINK. VFG - APH	ANDESITE TUFF, BANDED, VFG, INVADED BY APHANITIC SILICEOUS PINK BANDS	- SILICIFICATION ALONG PINKISH BANDS	TR - 2% PY	
285.91	286.67	QUARTZ VEIN <QZV>	WHITE, FG	MASSIVE, MILKY WHITE	- VEIN	1% CPY, 3-5% PY	
296.17	297.91	ANDESITE TUFF <ATUF>	GREY-GREEN	POOR-MOD LAYERED ANDESITE TUFF C/A 65°	- VARIABLE DEGREES OF SILICIFICATION ± HEMATITE	TR PY	

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FROM	TO	ROCK TYPE	COLOUR GRAIN SIZE	TEXTURES AND STRUCTURE	ALTERATION	MINERALIZATION	REMARKS
297.91	305.55	DACITE TUFF <<DTUF>>	LT GREY	POOR-CRUDELY LAYERED DACITE TUFF WITH 1-5% FP <1-1mm PHENOCRYSTS.	F-M-S CHL-SER ALONG FRACTURES	TR PY	
305.55	307.10	ANDESITE TUFF + CARBONATE UNIT <<ATUF + CARB>>	MED GREEN-GREY	ANDESITE TUFF WITH MINOR CARBONATE(?) AND MINOR DACITE TUFF	F-W CALC VEINS	TR PY-PO	

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FALCONBRIDGE LIMITED

FROM	TO	ROCK TYPE	COLOUR GRAIN SIZE	TEXTURES AND STRUCTURE	ALTERATION	MINERALIZATION	REMARKS
307.10	375.82	ANDESITE TUFF << ATUF >>	MED GREY-GREEN	ANDESITE TUFF, VARIABLY SILICIFIED(?) NOTE SECTION AT 323.13-327.44 IS POSSIBLY A DACITIC TUFF(?) NOTE AT 327.44 - 375.82 LOCALLY 5-10% FP PHENOS ≈ 1mm, ALSO LOCAL CALCAREOUS SECTIONS ± WHITE FRAGS.	SILICIFICATION(?) AS GRAYISH BANDS AND PATCHES, PERVASIVE i.e.) 307.10 - 313.38: 70% BANDS 313.38 - 323.13: 20% BANDS 323.13 - 327.44: 100% PERV. 327.44 - 375.82: <5-15% PATCHES	TR PY-PO LOC 1% TO 3% PY-PO i.e.) 307.10 - 323.13: TR 323.13 - 327.44: TR-1% 327.44 - 375.82: TR-LOC 3% PY-PO	
END OF HOLE							

Hole No. TH-3 Michael J. Gray

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Ontario

Report of Work

DOCUMENT No.
W8907-077

Mining Act

MONCRIEFF (G-4086)
MONCRIEFF
MUNSTER
CRAIG
HESS

Instructions — Supply required data on a separate form for each type of work to be recorded (see table below).
— For Geo-technical work use form no. 1362 "Report of Work (Geological, Geophysical, Geochemical and Expenditures)".

PAGE 1 of 10

Name and Postal Address of Recorded Holder

F[illegible]ONBRIDGE LIMITED
P.O. BOX 40 Falconbridge, Ontario POM 1S0

41I12NE0064 16 MONCRIEFF

900

Summary of Work Performance and Distribution of Credits

Total Work Days Cr. claimed: 3826.20

for Performance of the following work. (Check one only)

- [ ] Manual Work
- [ ] Shaft Sinking Drifting or other Lateral Work.
- [ ] Compressed Air, other Power driven or mechanical equip.
- [ ] Power Stripping
- [x] Diamond or other Core drilling
- [ ] Land Survey

Mining Claim Prefix	Number	Work Days Cr.	Prefix	Number	Days Cr.	Prefix	Number	Days Cr.
S	808969	20	S	830744	10	S	993653	10
[redacted]	808970	20	[redacted]	830745	10	[redacted]	993654	10
[redacted]	808972	20	[redacted]	830746	10	[redacted]	993655	10
[redacted]	808983	20	[redacted]	830747	10	[redacted]	993656	10
[redacted]	808984	20	[redacted]	831410	10	[redacted]	994048	10
[redacted]	808985	20	[redacted]	993568	10	[redacted]		
[redacted]	808987	20	[redacted]	993569	10	[redacted]		
[redacted]	830677	20	[redacted]	993570	10	[redacted]		

All the work was performed on Mining Claim(s): 808969

Required Information eg: type of equipment, Names, Addresses, etc. (See Table Below)

DIAMOND DRILL CORE EXPLORATION PROGRAMME

Contractor: McKnight Drilling Company Limited
Box 1170 Haileybury, Ontario
P0J 1K0
President- Ed MacVeigh
Foreman - Gord Lendt

Equipment: Longyear Super 36 Drill

Dates: 17th October 1989 through 9th November 1989 (Inclusive)

RECORDED
AUG 16 1989
K.G.
Receipt #
SUDBURY MINING DIV.

RECEIVED
JUL 11 1989
A.M. 7 8 9 10 11 12 1 2 3 4 5 6 P.M.
2:45pm

ONTARIO GEOLOGICAL SURVEY
ASSESSMENT FILES OFFICE
AUG 22 1989
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Aug. 16/89
Per conversation b/w K. Giroux / V. Miller claim S.808969 will be over the assessment allowance by 575.2. V. Miller will allow this.

Date of Report: 10 JULY 1989

Recorded Holder or Agent (Signature): Michael J. Gray

Certification Verifying Report of Work

I hereby certify that I have a personal and intimate knowledge of the facts set forth in the Report of Work annexed hereto, having performed the work or witnessed same during and/or after its completion and the annexed report is true.

Name and Postal Address of Person Certifying

Michael J. Gray
68 Cumberland Court, Sudbury P3A 5H1

Date Certified: 11 JULY 1989

Certified by (Signature): Michael J. Gray

Table of Information/Attachments Required by the Mining Recorder

Type of Work	Specific information per type	Other information (Common to 2 or more types)	Attachments
Manual Work	Nil	Names and addresses of men who performed manual work/operated equipment, together with dates and hours of employment.	Work Sketch: these are required to show the location and extent of work in relation to the nearest claim post.
Shaft Sinking, Drifting or other Lateral Work	Nil		
Compressed air, other power driven or mechanical equip.	Type of equipment		
Power Stripping	Type of equipment and amount expended. Note: Proof of actual cost must be submitted within 30 days of recording.	Names and addresses of owner or operator together with dates when drilling/stripping done.	
Diamond or other core drilling	Signed core log showing; footage, diameter of core, number and angles of holes.		Work Sketch (as above) in duplicate
Land Survey	Name and address of Ontario land surveyor.	Nil	Nil

Ministry of Northern Development and Mines
Ontario

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PAGE 2 of 10

Name and Postal Address of Recorded Holder	Prospector's Licence No.
[redacted]	

Summary of Work Performance and Distribution of Credits

Total Work Days Cr. claimed	Mining Claim Prefix	Mining Claim Number	Work Days Cr.	Mining Claim Prefix	Mining Claim Number	Work Days Cr.	Mining Claim Prefix	Mining Claim Number	Work Days Cr.
for Performance of the following work. (Check one only)	S	1042317	20	S	1042339	3.23	S	1042349	20
☐ Manual Work	[redacted]	1042322	20	[redacted]	1042341	20	[redacted]	1042350	20
☐ Shaft Sinking Drifting or other Lateral Work.		1042323	20		1042342	20		1042351	20
☐ Compressed Air, other Power driven or mechanical equip.		1042324	20		1042343	20		1042352	20
☐ Power Stripping		1042325	20		1042344	20		1042353	20
☑ Diamond or other Core drilling		1042326	20		1042346	20		1042354	20
☐ Land Survey		1042335	20		1042347	20		1042355	20
		1042337	20		1042348	20		1042356	20

All the work was performed on Mining Claim(s):

Required Information eg: type of equipment, Names, Addresses, etc. (See Table Below)

SUDBURY MINING DIV.
RECEIVED
JUL 11 1989
A.M. P.M.
7 8 9 10 11 12 1 2 3 4 5 6
2:45pm

Date of Report	Recorded Holder or Agent (Signature)

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Name and Postal Address of Person Certifying		
	Date Certified	Certified by (Signature)

Table of Information/Attachments Required by the Mining Recorder

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Manual Work	Nil	Names and addresses of men who performed manual work/operated equipment, together with dates and hours of employment.	Work Sketch: these are required to show the location and extent of work in relation to the nearest claim post.
Shaft Sinking, Drifting or other Lateral Work			
Compressed air, other power driven or mechanical equip.	Type of equipment		
Power Stripping	Type of equipment and amount expended. Note: Proof of actual cost must be submitted within 30 days of recording.	Names and addresses of owner or operator together with dates when drilling/stripping done.	
Diamond or other core drilling	Signed core log showing; footage, diameter of core, number and angles of holes.		Work Sketch (as above) in duplicate
Land Survey	Name and address of Ontario land surveyor.	Nil	Nil

Ontario

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PAGE 3 of 15

Name and Postal Address of Recorded Holder	Prospector's Licence No.
[redacted]	

Summary of Work Performance and Distribution of Credits

Total Work Days Cr. claimed	Mining Claim Prefix	Mining Claim Number	Work Days Cr.	Mining Claim Prefix	Mining Claim Number	Work Days Cr.	Mining Claim Prefix	Mining Claim Number	Work Days Cr.
for Performance of the following work. (Check one only)	S	1042358	20	S	1042371	20	S	1042946	20
☐ Manual Work	[redacted]	1042359	20	[redacted]	1042372	20	[redacted]	1042952	20
☐ Shaft Sinking Drifting or other Lateral Work.		1042360	20		1042390	20		1046886	20
☐ Compressed Air, other Power driven or mechanical equip.		1042361	20		1042397	20		1046887	20
☐ Power Stripping		1042362	20		1042398	20		1046888	20
☑ Diamond or other Core drilling		1042363	20		1042461	20		1046898	20
☐ Land Survey		1042369	20		1042462	20		1046899	20
		1042370	20		1042467	20		1046900	20

All the work was performed on Mining Claim(s):

Required Information eg: type of equipment, Names, Addresses, etc. (See Table Below)

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RECEIVED
JUL 11 1989
A.M. 7 8 9 10 11 12 1 2 3 4 5 6 P.M.

2:45pm MF

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	Date Certified	Certified by (Signature)

Table of Information/Attachments Required by the Mining Recorder

Type of Work	Specific information per type	Other information (Common to 2 or more types)	Attachments
Manual Work	Nil	Names and addresses of men who performed manual work/operated equipment, together with dates and hours of employment.	Work Sketch: these are required to show the location and extent of work in relation to the nearest claim post.
Shaft Sinking, Drifting or other Lateral Work			
Compressed air, other power driven or mechanical equip.	Type of equipment		
Power Stripping	Type of equipment and amount expended. **Note:** Proof of actual cost must be submitted within 30 days of recording.	Names and addresses of owner or operator together with dates when drilling/stripping done.	
Diamond or other core drilling	Signed core log showing; footage, diameter of core, number and angles of holes.		Work Sketch (as above) in duplicate
Land Survey	Name and address of Ontario land surveyer.	Nil	Nil

7BB (88/12)

Ministry of Northern Development and Mines

Ontario

Report of Work

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Instructions — Supply required data on a separate form for each type of work to be recorded (see table below).
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PAGE 4 of 10

Name and Postal Address of Recorded Holder	Prospector's Licence No.
[redacted]	

Summary of Work Performance and Distribution of Credits

Total Work Days Cr. claimed	Mining Claim Prefix	Mining Claim Number	Work Days Cr.	Mining Claim Prefix	Mining Claim Number	Work Days Cr.	Mining Claim Prefix	Mining Claim Number	Work Days Cr.
for Performance of the following work. (Check one only)	S	1046901	20	S	1046912	20			
☐ Manual Work	[redacted]	1046902	20	[redacted]	1046913	20	[redacted]		
☐ Shaft Sinking Drifting or other Lateral Work.		1046903	20		1046914	20			
☐ Compressed Air, other Power driven or mechanical equip.		1046907	20		[illegible]				
☐ Power Stripping		1046908	20						
☑ Diamond or other Core drilling		1046909	20						
☐ Land Survey		1046910	20						
		1046911	20						

All the work was performed on Mining Claim(s):

Required Information eg: type of equipment, Names, Addresses, etc. (See Table Below)

SUDBURY MINING DIV. RECEIVED JUL 11 1989 A.M. 7 8 9 10 11 12 1 2 3 4 5 6 P.M.

2:45pm mf

Date of Report	Recorded Holder or Agent (Signature)

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Name and Postal Address of Person Certifying		
	Date Certified	Certified by (Signature)

Table of Information/Attachments Required by the Mining Recorder

Type of Work	Specific information per type	Other information (Common to 2 or more types)	Attachments
Manual Work	Nil	Names and addresses of men who performed manual work/operated equipment, together with dates and hours of employment.	Work Sketch: these are required to show the location and extent of work in relation to the nearest claim post.
Shaft Sinking, Drifting or other Lateral Work			
Compressed air, other power driven or mechanical equip.	Type of equipment		
Power Stripping	Type of equipment and amount expended. Note: Proof of actual cost must be submitted within 30 days of recording.	Names and addresses of owner or operator together with dates when drilling/stripping done.	
Diamond or other core drilling	Signed core log showing; footage, diameter of core, number and angles of holes.		Work Sketch (as above) in duplicate
Land Survey	Name and address of Ontario land surveyor.	Nil	Nil

Ontario

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Name and Postal Address of Recorded Holder	Prospector's Licence No.
[redacted]	

Summary of Work Performance and Distribution of Credits

Total Work Days Cr. claimed	Mining Claim Prefix	Mining Claim Number	Work Days Cr.	Mining Claim Prefix	Mining Claim Number	Work Days Cr.	Mining Claim Prefix	Mining Claim Number	Work Days Cr.
for Performance of the following work. (Check one only)	S	1046857	20	S	1046875	20	S	1046923	20
☐ Manual Work	[redacted]	1046858	20	[redacted]	1046876	20	[redacted]	1046924	20
☐ Shaft Sinking Drifting or other Lateral Work.		1046859	60		1046916	20		1046925	20
☐ Compressed Air, other Power driven or mechanical equip.		1046860	60		1046917	20		1046931	60
☐ Power Stripping		1046861	60		1046918	20		1046932	20
☑ Diamond or other Core drilling		1046872	20		1046919	20		1046933	20
☐ Land Survey		1046873	20		1046920	20		1046934	60
		1046874	20		1046921	20		1046935	60

All the work was performed on Mining Claim(s):

Required Information eg: type of equipment, Names, Addresses, etc. (See Table Below)

SUDBURY MINING DIV. RECEIVED JUL 11 1989 A.M. 7 8 9 10 11 12 1 2 3 4 5 6 P.M.

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Date of Report	Recorded Holder or Agent (Signature)

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Name and Postal Address of Person Certifying		
	Date Certified	Certified by (Signature)

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Type of Work	Specific information per type	Other information (Common to 2 or more types)	Attachments
Manual Work	Nil	Names and addresses of men who performed manual work/operated equipment, together with dates and hours of employment.	Work Sketch: these are required to show the location and extent of work in relation to the nearest claim post.
Shaft Sinking, Drifting or other Lateral Work			
Compressed air, other power driven or mechanical equip.	Type of equipment		
Power Stripping	Type of equipment and amount expended. Note: Proof of actual cost must be submitted within 30 days of recording.	Names and addresses of owner or operator together with dates when drilling/stripping done.	
Diamond or other core drilling	Signed core log showing; footage, diameter of core, number and angles of holes.		Work Sketch (as above) in duplicate
Land Survey	Name and address of Ontario land surveyer.	Nil	Nil

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PAGE 6 of 10

Name and Postal Address of Recorded Holder	Prospector's Licence No.
[redacted]	

Summary of Work Performance and Distribution of Credits

Total Work Days Cr. claimed	Mining Claim Prefix	Mining Claim Number	Work Days Cr.	Mining Claim Prefix	Mining Claim Number	Work Days Cr.	Mining Claim Prefix	Mining Claim Number	Work Days Cr.
for Performance of the following work. (Check one only)	S	1046936	60	S	1046944	20			
☐ Manual Work	[redacted]	1046937	60	[redacted]			[redacted]		
☐ Shaft Sinking Drifting or other Lateral Work.		1046938	20						
☐ Compressed Air, other Power driven or mechanical equip.		1046939	20						
☐ Power Stripping		1046940	20						
☑ Diamond or other Core drilling		1046941	60						
☐ Land Survey		1046942	~~53.7~~ 52.17						
		1046943	20						

All the work was performed on Mining Claim(s):

Required Information eg: type of equipment, Names, Addresses, etc. (See Table Below)

SUDBURY MINING DIV.
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JUL 11 1989
A.M. 7 8 9 10 11 12 1 2 3 4 5 6 P.M.

2:45pm rd

Date of Report	Recorded Holder or Agent (Signature)

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Name and Postal Address of Person Certifying		
	Date Certified	Certified by (Signature)

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Type of Work	Specific information per type	Other information (Common to 2 or more types)	Attachments
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Shaft Sinking, Drifting or other Lateral Work			
Compressed air, other power driven or mechanical equip.	Type of equipment		
Power Stripping	Type of equipment and amount expended. Note: Proof of actual cost must be submitted within 30 days of recording.	Names and addresses of owner or operator together with dates when drilling/stripping done.	
Diamond or other core drilling	Signed core log showing; footage, diameter of core, number and angles of holes.		Work Sketch (as above) in duplicate
Land Survey	Name and address of Ontario land surveyer.	Nil	Nil

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Name and Postal Address of Recorded Holder	Prospector's Licence No.
[redacted]	

Summary of Work Performance and Distribution of Credits

Total Work Days Cr. claimed	Mining Claim Prefix	Mining Claim Number	Work Days Cr.	Mining Claim Prefix	Mining Claim Number	Work Days Cr.	Mining Claim Prefix	Mining Claim Number	Work Days Cr.
for Performance of the following work. (Check one only)	S	1042463	20	S	1042480	20			
☐ Manual Work	[redacted]	1042464	20	[redacted]			[redacted]		
☐ Shaft Sinking Drifting or other Lateral Work.		1042465	20						
☐ Compressed Air, other Power driven or mechanical equip.		1042466	20						
☐ Power Stripping		1042468	20						
☒ Diamond or other Core drilling		1042469	20						
☐ Land Survey		1042470	20						
		1042479	20						

All the work was performed on Mining Claim(s):

Required Information eg: type of equipment, Names, Addresses, etc. (See Table Below)

SUDBURY MINING DIV.
RECEIVED
JUL 11 1989
A.M. 7 8 9 10 11 12 1 2 3 4 5 6 P.M.
2:45 pm mft

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Shaft Sinking, Drifting or other Lateral Work			
Compressed air, other power driven or mechanical equip.	Type of equipment		
Power Stripping	Type of equipment and amount expended. Note: Proof of actual cost must be submitted within 30 days of recording.	Names and addresses of owner or operator together with dates when drilling/stripping done.	
Diamond or other core drilling	Signed core log showing; footage, diameter of core, number and angles of holes.		Work Sketch (as above) in duplicate
Land Survey	Name and address of Ontario land surveyor.	Nil	Nil

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PAGE 8 of 10

Name and Postal Address of Recorded Holder	Prospector's Licence No.
[redacted]	

Summary of Work Performance and Distribution of Credits

Total Work Days Cr. claimed	Mining Claim Prefix	Mining Claim Number	Work Days Cr.	Mining Claim Prefix	Mining Claim Number	Work Days Cr.	Mining Claim Prefix	Mining Claim Number	Work Days Cr.
for Performance of the following work. (Check one only)	S	1046856	20	S	1046892	20	S	1046906	60
☐ Manual Work	[redacted]	1046862	60	[redacted]	1046893	20	[redacted]		
☐ Shaft Sinking Drifting or other Lateral Work.		1046863	60		1046894	20			
☐ Compressed Air, other Power driven or mechanical equip.		1046864	20		1046895	20			
☐ Power Stripping		1046865	20		1046896	20			
☑ Diamond or other Core drilling		1046889	20		1046897	20			
☐ Land Survey		1046890	20		1046904	60			
		1046891	20		1046905	60			

All the work was performed on Mining Claim(s):

Required Information eg: type of equipment, Names, Addresses, etc. (See Table Below)

SUDBURY MINING DIV. RECEIVED JUL 11 1989 A.M. 7 8 9 10 11 12 1 2 3 4 5 6 P.M.

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Shaft Sinking, Drifting or other Lateral Work			
Compressed air, other power driven or mechanical equip.	Type of equipment		
Power Stripping	Type of equipment and amount expended. Note: Proof of actual cost must be submitted within 30 days of recording.	Names and addresses of owner or operator together with dates when drilling/stripping done.	
Diamond or other core drilling	Signed core log showing; footage, diameter of core, number and angles of holes.		Work Sketch (as above) in duplicate
Land Survey	Name and address of Ontario land surveyer.	Nil	Nil

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Name and Postal Address of Recorded Holder	Prospector's Licence No.
[redacted]	

Summary of Work Performance and Distribution of Credits

Total Work Days Cr. claimed	Mining Claim Prefix	Mining Claim Number	Work Days Cr.	Mining Claim Prefix	Mining Claim Number	Work Days Cr.	Mining Claim Prefix	Mining Claim Number	Work Days Cr.
for Performance of the following work. (Check one only)	S	1042327	20	S	1042336	20	S	1042504	20
☐ Manual Work	[redacted]	1042328	20	[redacted]	1042357	20	[redacted]	1046871	20
☐ Shaft Sinking Drifting or other Lateral Work.		1042329	20		1042400	20		1046877	20
☐ Compressed Air, other Power driven or mechanical equip.		1042330	20		1042484	20		1046878	20
☐ Power Stripping		1042331	20		1042485	20		1046879	20
☑ Diamond or other Core drilling		1042332	20		1042486	20		1046880	20
☐ Land Survey		1042333	20		1042487	20		1046881	20
		1042334	20		1042488	20		1046883	20

All the work was performed on Mining Claim(s):

Required Information eg: type of equipment, Names, Addresses, etc. (See Table Below)

SUDBURY MINING DIV.
RECEIVED
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A.M. P.M.
7 8 9 10 11 12 1 2 3 4 5 6

2:45pm md

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Shaft Sinking, Drifting or other Lateral Work			
Compressed air, other power driven or mechanical equip.	Type of equipment		
Power Stripping	Type of equipment and amount expended. Note: Proof of actual cost must be submitted within 30 days of recording.	Names and addresses of owner or operator together with dates when drilling/stripping done.	
Diamond or other core drilling	Signed core log showing; footage, diameter of core, number and angles of holes.		Work Sketch (as above) in duplicate
Land Survey	Name and address of Ontario land surveyor.	Nil	Nil

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Name and Postal Address of Recorded Holder	Prospector's Licence No.
[redacted]	

Summary of Work Performance and Distribution of Credits

Total Work Days Cr. claimed	Mining Claim Prefix	Mining Claim Number	Work Days Cr.	Mining Claim Prefix	Mining Claim Number	Work Days Cr.	Mining Claim Prefix	Mining Claim Number	Work Days Cr.
for Performance of the following work. (Check one only)	S	1046922	20						
☐ Manual Work	[redacted]	1046926	20	[redacted]			[redacted]		
☐ Shaft Sinking Drifting or other Lateral Work.		1046927	20						
☐ Compressed Air, other Power driven or mechanical equip.		1046928	20						
☐ Power Stripping		1046929	20						
☑ Diamond or other Core drilling		1046930	20						
☐ Land Survey									

All the work was performed on Mining Claim(s):

Required Information eg: type of equipment, Names, Addresses, etc. (See Table Below)

SUDBURY MINING DIV. RECEIVED JUL 11 1989 A.M. 7 8 9 10 11 12 1 2 3 4 5 6 P.M.

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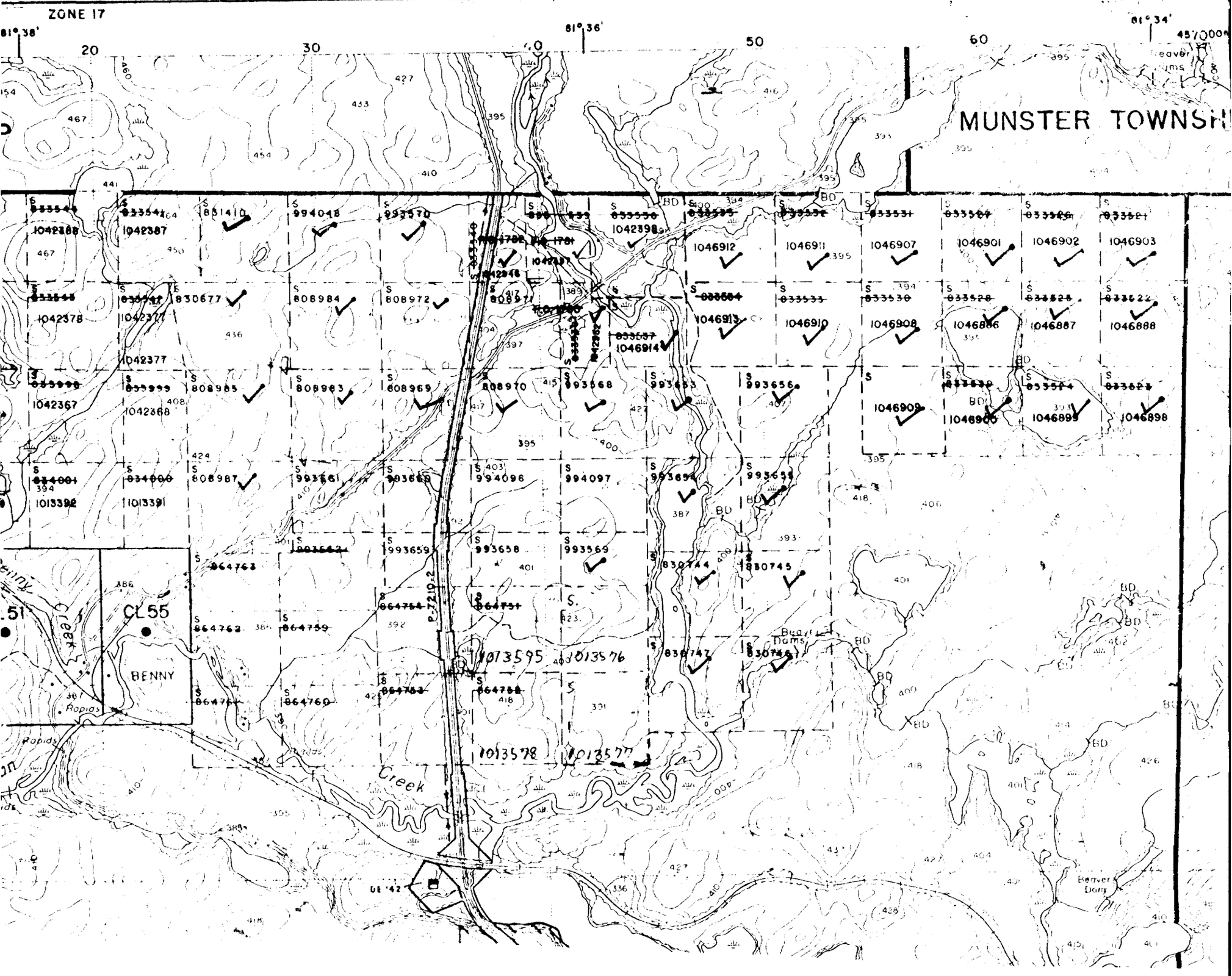
I hereby certify that I have a personal and intimate knowledge of the facts set forth in the Report of Work annexed hereto, having performed the work or witnessed same during and/or after its completion and the annexed report is true.

Name and Postal Address of Person Certifying		
	Date Certified	Certified by (Signature)

Table of Information/Attachments Required by the Mining Recorder

Type of Work	Specific information per type	Other information (Common to 2 or more types)	Attachments
Manual Work	Nil	Names and addresses of men who performed manual work/operated equipment, together with dates and hours of employment.	Work Sketch: these are required to show the location and extent of work in relation to the nearest claim post.
Shaft Sinking, Drifting or other Lateral Work			
Compressed air, other power driven or mechanical equip.	Type of equipment		
Power Stripping	Type of equipment and amount expended. Note: Proof of actual cost must be submitted within 30 days of recording.	Names and addresses of owner or operator together with dates when drilling/stripping done.	
Diamond or other core drilling	Signed core log showing; footage, diameter of core, number and angles of holes.		Work Sketch (as above) in duplicate
Land Survey	Name and address of Ontario land surveyor.	Nil	Nil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81°36'
81°34'
20
30
40
50
60
MUNSTER TOWNSHI
CL55
BENNY
Rapids
Creek
Beaver Dams
1042388
1042387
1042378
1042377
1042367
1042368
1013392
1013391
1046912
1046911
1046907
1046901
1046902
1046903
1046913
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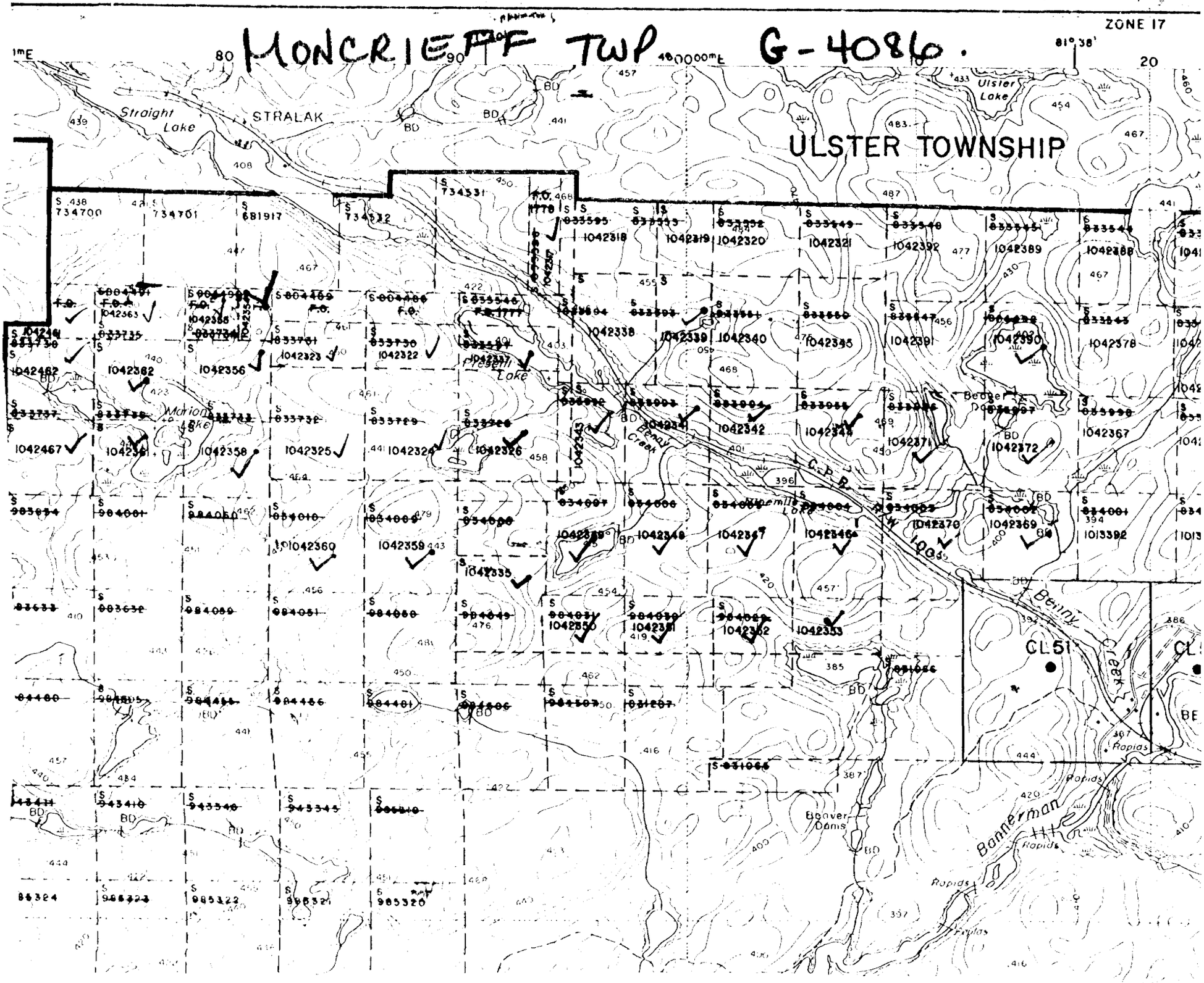
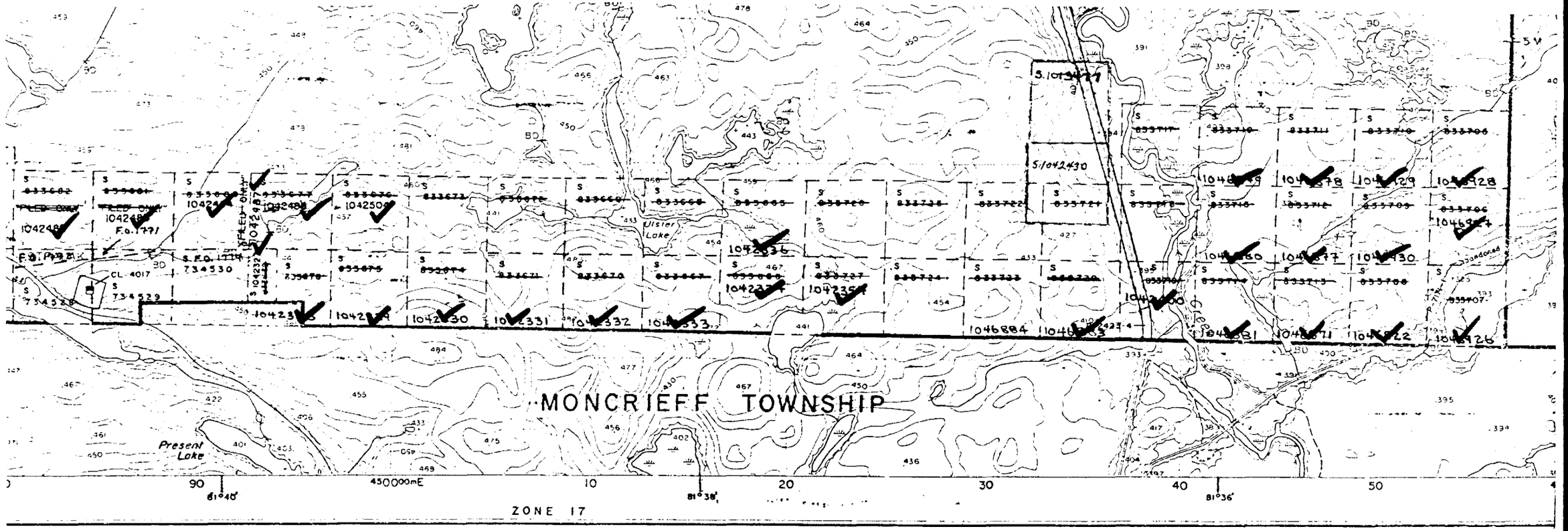
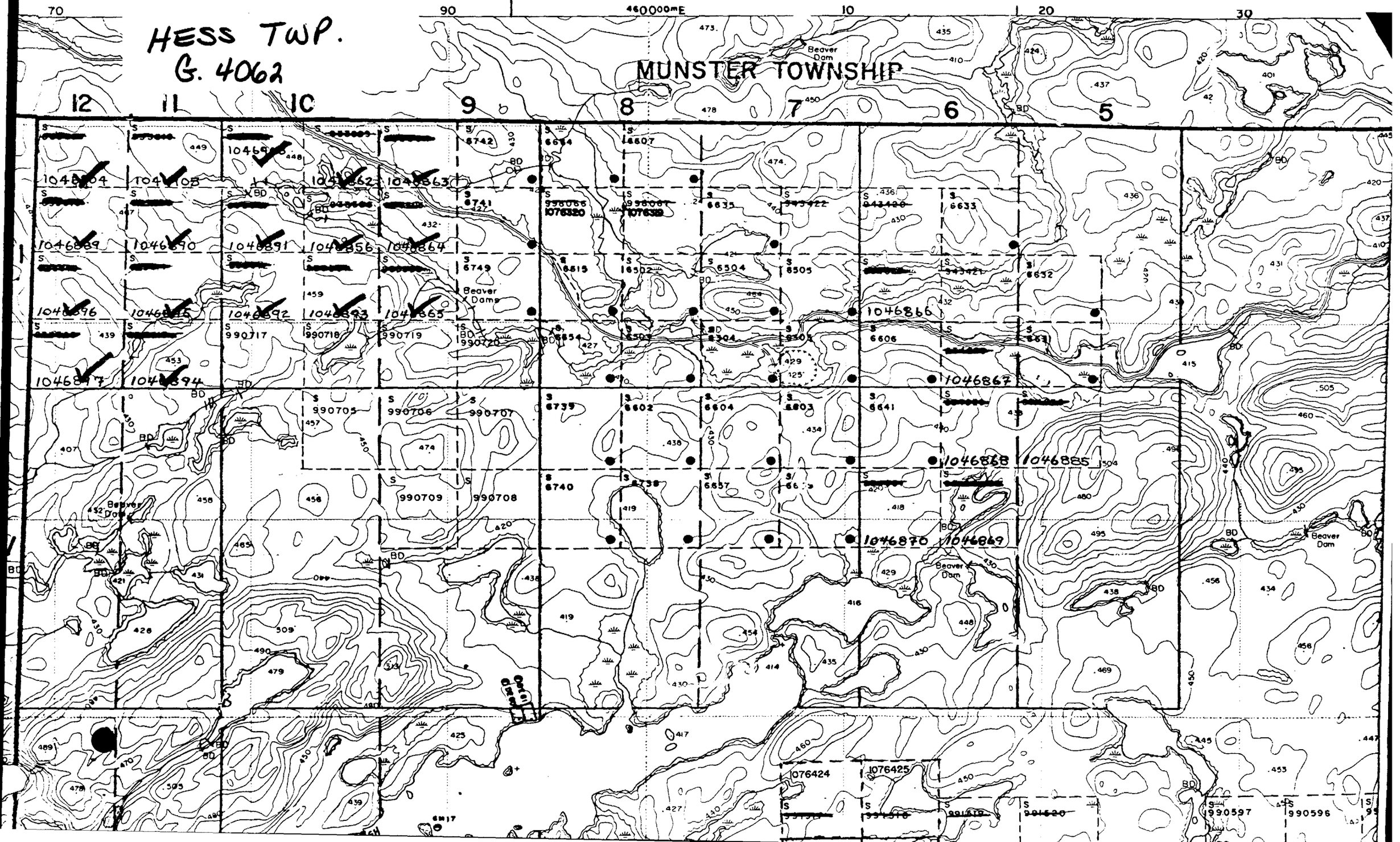
P-7210-2

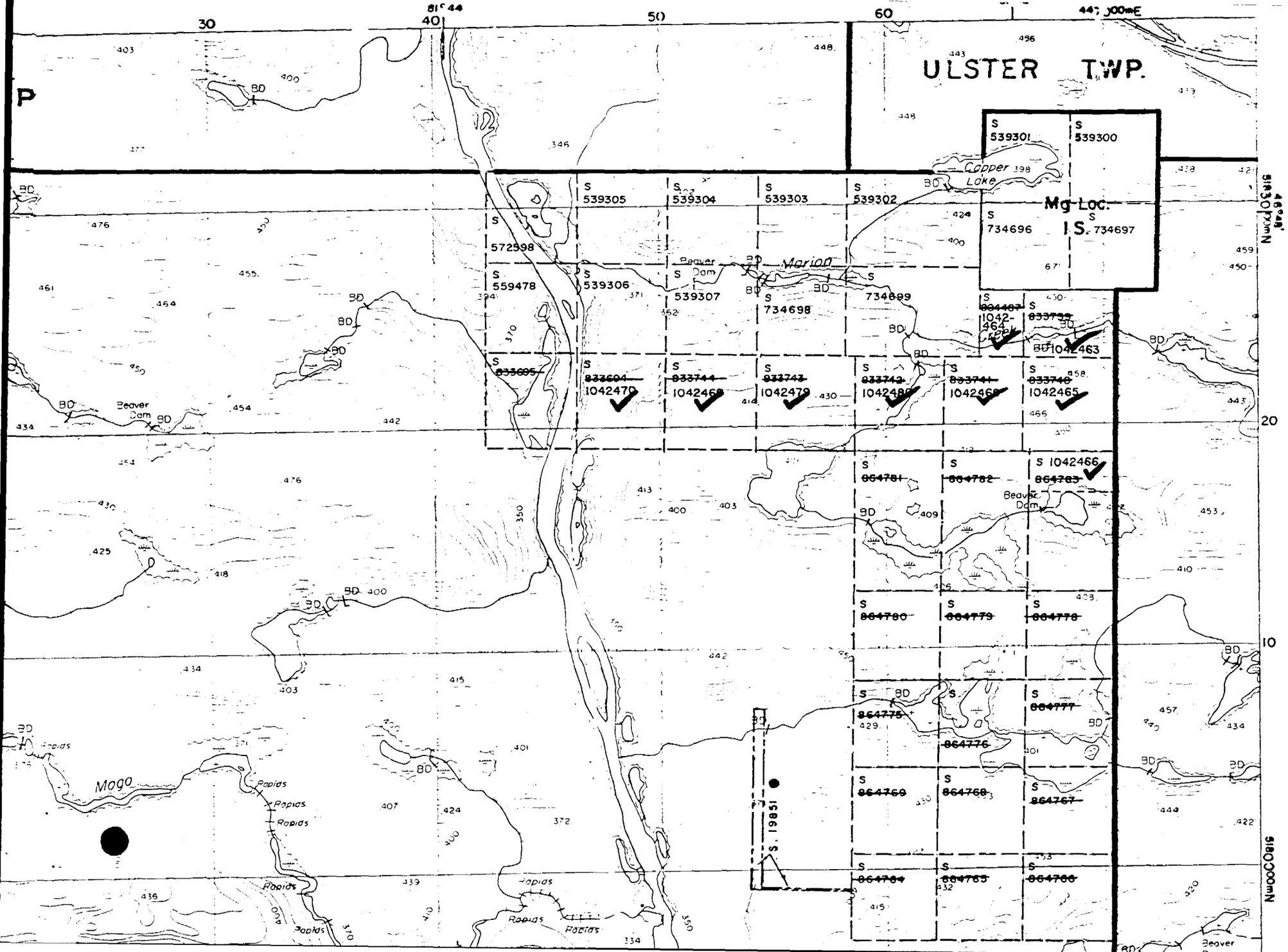
MONCRIEFF TWP G-4086.



ULSTER TWP. G.4117




HESS TWP.
G. 4062
MUNSTER TOWNSHIP
460000mE
12
11
10
9
8
7
6
5
Beaver Dam
1046866
1046867
1046868
1046885
1046870
1046869
1076424
1076425



Ontario Resources

INDEX TO LA

PLAN

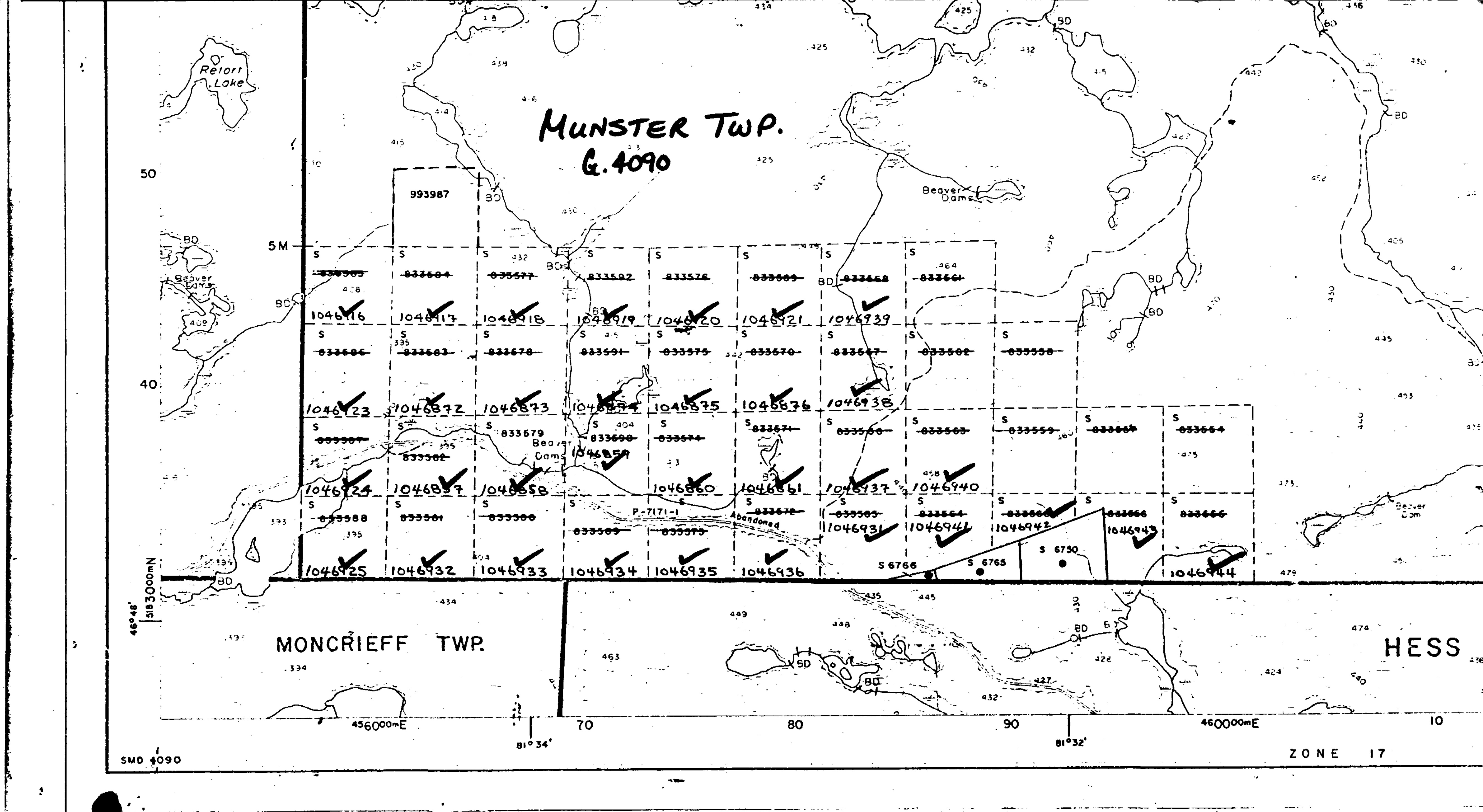
G-2952

TOWNSHIP

CRAIG

1000 Metres

1000 Feet


MUNSTER TWP.
G.4090
MONCRIEFF TWP.
HESS
Retort Lake
Beaver Dams
P-7171-1
Abandoned
993987
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1046917
1046918
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1046944
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S 6765
S 6750
4560000mE
4600000mE
5183000mN
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81°34'
81°32'
SMD 4090
ZONE 17