



DIAMOND DRILLING

TOWNSHIP: MUNSTER

REPORT NO: 15

WORK PERFORMED FOR: FALCONBRIDGE EXPLORATION LIMITED

RECORDED HOLDER: SAME AS ABOVE [X]

: OTHER []

CLAIM NO.	HOLE NO.	FOOTAGE	DATE	NOTE
1046872	MU-01	172.52 M	OCT/90	(1)
1046873	MU-02	407.22 M	OCT/90	(1)
1046872	MU-03	291.39 M	OCT/90	(1)
1046875	MU-04	190.81 M	OCT/90	(1)
1046935	MU-05	164.20 M	NOV/90	(1)
1046933	MU-06	275.15 M	NOV/90	(1)
	MU-07	361.50 M	NOV/90	(1)
1046919	MU-08	370.64 M	NOV/90	(1)
1046874	MU-10	520.13 M	FEB/91	(1)

NOTES: (1) #W9170.00057, FILED JAN/92

FALCONBRIDGE EXPLORATION

WORK REPORT

MUNSTER, MONCRIEFF, CRAIG ULSTER, HESS TOWNSHIPS

BENNY DIAMOND DRILL CORE EXPLORATION PROGRAMME

G.SNYDER

FALCONBRIDGE EXPLORATION LIMITED

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SUMMARY AND CONCLUSIONS

The Benny property is located within the Archean Benny Greenstone Belt and in the Sudbury Mining Division. In the fall of 1990 a 15 hole diamond drill programme (total 3873.87 m) tested numerous targets for Zn-Cu-Pb-Ag-Au volcanogenic massive sulphide mineralization. In 1991, a 2 hole program was conducted over deeper targets totalling 870.13 m.

The drill holes did not intersect any significant base or precious metal mineralization. The best intersection was in hole MU-10 drilled in 1991, 0.54% Zn, 0.16% Pb over 1.65 m.

II. INTRODUCTION

The Geneva West Property is located 64 km northwest of Sudbury within the Archean Benny Greenstone Belt and in the Sudbury Mining Division (centred on coordinated 46° 48' 00" N, 81° 34' 00" W).

The Benny Property extends from Spanish River on the far West to within 800 m of the Geneva Lake Mine to the East. Highway 144 and the Geneva Lake Mine road provide excellent access to the East half of the property (fig. 1).

During the fall of 1990 and winter of 1991, 17 drill holes were drilled to the East of Highway 144 with a total 4744 m, (15564.30 ft). Dominik Drilling was the contractor. The core is stored at Chelmsford Falconbridge Exploration office.

III RESULTS

The 1990 drill programme drilled 15 holes at numerous surface EM conductors and surface trenches and showings. The conductors were mainly explained by massive pyrrhotite, pyrite. There was no significant base metal values encountered. Table 1, summarizes the drill hole locations and orientations.

The 1991 drill programme drilled two holes. One hole targeted a surface trench (Double Pay Day) at 350 m below surface. The other hole was a follow up on MU-08 from 1990 drilling. Both holes intersected no significant base metal mineralization. The holes locations and orientations are summarized in Table 1. Detailed logs for 1990, 1991 drilling is attached in appendix III.

IV RECOMMENDATION

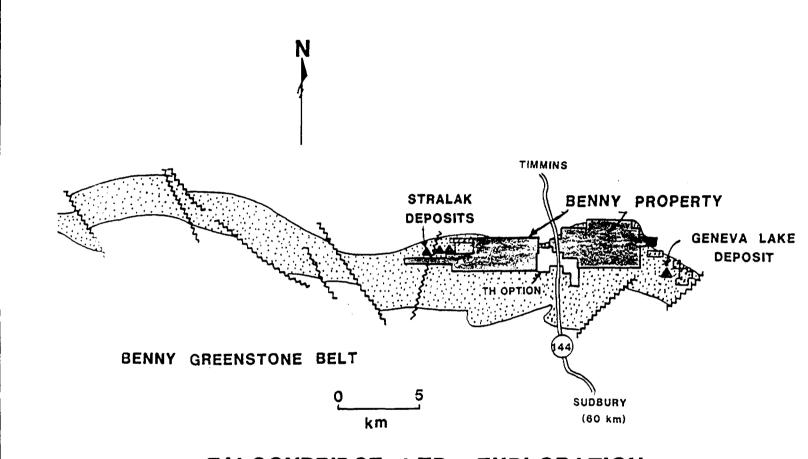
The 1990 and 1991 drilling tested most surface Deepem conductors. A few of the surface conductors are unexplained and should be followed up by drilling.

APPENDIX I

STATEMENT OF QUALIFICATIONS

DIAMOND DRILL HOLES BENNY EAST PROJECT, 1990, 1991

	GRID	GRID	UTM	MTU		(°)	(°)	(m)	
HOLE	EASTING	NORTHING	EASTING	NORTHING	ELEV.	DIP	AZM.	DEPTH	COMMENTS
1. HE-03 (90)	2+25W	19+47S	456914	5181725	415	-55	025	181.66	RUSTY CHAIN
2. MO-01 (90)	4W	19+11S	456772	5181845	418	-5 5	030	151.18	CHAIN TRENCH
3. HE-05 (90)	3 W	16+89S	456970	5181985	431	-55	050	178.61	ANOMALY "F""
4. HE-06 (90)	3+05W	14+11S	457110	5182225	425	-55	045	193.85	ANOMALY "G""
5. MO-02 (90)	6W	19+95S	456555	5181875	412	-55	030	254.81	CHAIN TRENCH
6. HE-04 (90)	3+50E	15+38\$	457610	5181780	453	-50	350	327.98	ANOMALY "G""
7. MO-03 (90)	11+10W	12+82S	455940	5182613	394	-60	290	352.35	ANOMALY "C""
8. MU-07 (90)	9 W	8+085	456900	5183046	425	-55	025	361.50	NORANDA TRENCH*
9. MU-06 (90)	10W	6+76\$	456879	5183210	415	-60	360	275.15	NORANDA TRENCH*
10. MU-05 (90)	7+95W	6+5 6 S	457066	5183130	435	-50	055	164.20	NORANDA TRENCH*
11. MU-02 (90)	4W	3+95N	456556	5184293	415	-50	360	407.22	BAR-B-QUE TRENCH
12. MU-03 (90)	6W	3+52N	456453	5184240	412	-50	355	291.39	BAR-B-QUE TRENCH
13. MU-01 (90)	7+80W	3N	456274	5184194	397	-60	350	172.52	BAR-B-QUE TRENCH
14. MU-04 (90)	11+34W	1+73N	457200	5184010	407	-50	360	190.81	ANOMALY "B"
15. MU-08 (90)	0+45W	3+11N	457009	5184205	409	-65	020	370.64	SERICITE PIT
16. MU-10 (91)	0+60W	2+71N	456998	5184195	409	-65	020	520.13	SERICITE PIT
17. HE-07 (91)	8+50W	0+20N	458850	5182855	440	-55	028	350.00	DOUBLE PAY TRENCH
TOTAL								4744.00	



FALCONBRIDGE LTD EXPLORATION BENNY PROJECT PN 232

STATEMENT OF QUALIFICATIONS

- I, Gregg A. Snyder, of Sudbury, Ontario hereby certify that:
- 1) I graduated from Acadia University with a Bachelor of Science Degree in Geology (1989).
- 2) I am a geologist employed on a contract basis by Falconbridge Exploration Limited of 1977 McKenzie Road, Chelmsford, Ontario.
- 3) I have been practicing my profession for the past 2 years.
- 4) I have no financial interest in the claims involved in this report, or in Falconbridge Limited.

Dated	at	Sudbury,	Ontario	this	dav	of	1991.
Duceu	$u \iota$	Duabary,	Oncario	CILLO	uay	O.L	エノノエ・

Gregg A. Snyder Field Geologist APPENDIX II

DOMINIK INVOICE

TOTAL DRILLING FOOTAGE (1990) 3873.87 m 12709.55 ft

(1991) 870.13 m 2854.76 ft

TOTAL

4744.00 m or 15564.30 ft

TOTAL NUMBER OF WORK DAYS

1 ft Diamond Drilling = 1 Work Day +5564.30 ft = 15564.30 work days.

TOTAL NUMBER OF CLAIMS = 190



FACTURE INVOICE

FORAGE DOMINIK (1981) INC. DOMINIK DRILLING (1981) INC.

1080, rue de l'Echo C.P. / P.O. Box 247, Val d'Or, P.O. J9P 4P3 Téléphone (819) 824 6839 - Télex 057 45523

Falconbridge limited MI 11 , Fill Till No de facture / Invoice No.: 4320

Falconbridge (Ontario) POM 180

Date February 15, 1991

1. 10 101

Termes - Net 7 jours / Terms Net 7 Days

PECEUED-

Discourt Dargnotoc

	BENNY PROPERTY FEBRUARY 1-15/ 1991
Hole No. MU-91-09 (hexagone) From 62.7896 to 150.0000 150.0000 to 195.0744	87.2104 m
Tole No. HE 81 09 (hexagene) From 0.0000 to 15.0000 15.0000 to 26.2141 26.2131 to 150.0000	15.0000 m carring x 42,40 $^{\circ}$ 636,00 $^{\circ}$ 11.2131 m carring x 47,30 $^{\circ}$ 530,38 $^{\circ}$ 123.7869 m coring x 42,40 $^{\circ}$ + 1,30 $^{\circ}$ 5 409,49 $^{\circ}$
ole No. HE 91 0 / (hexagone) rom	14.0210 m casing x 42,40 \sim 594,49 $^{\circ}$ 135.9790 m coring x 47,30 \sim 6 431,81 $^{\circ}$ 150.0000 m coring x 42,40 $^{\circ}$ + 1,30 $^{\circ}$ 6 555,00 $^{\circ}$ 104.1697 m coring x 43,55 $^{\circ}$ + 1,30 $^{\circ}$ 4 672,01 $^{\circ}$
rom 0.0000 to 3.0480 3.0480 to 142.0385	3.0480 m casing x 42,40 129,24 138.9905 m coring x 42,40 + 1,30 6 073,88 45 115,75 \$ 7% GST 3 158,10 48 273,85 \$ 7



FORAGE DOMINIK (1981) INC. DOMINIK DRILLING (1981) INC. No. Defacture

x = 131.67

 $\times 185.00 =$

 \times 26,33 =

 $\times 420.00 =$

 $\times 155,30 =$

x = 31.06 =

x = 230,00 =

 \times 26,33 =

x 185,00 =

x 131,67 : <

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4320

395,01

185,00

78,99 <

420,00 <

621.20

31.06

230,00

78,99

185,00

297303

526,68

CONT

MATERIAL LEFT IN HOLE:

No. MU-91 09: 3 BW casing 10

1 BW casing shoe

No. HE-90-0**9:** 8 BW casing 10' ✓

: 3 BW casing 21/

: 1 NO crown special

No. HE-91 09: / 4 NW casing 10'

1 NW casing 2'

NW casing shoe

4 BW casing 10 12

Noverthange : 3 BW casing 20%

: 1 BW casing shoe

ALL MAK

3-805,29 \$ 570.794390

15% serv. charge

306,33235

7% GET

82 PST

304,4223151

4 986,83 ş 3.530 62

MISCELLANEOUS:

540 BO core box trays \times 4,60

2 484,00 \$<

7% GST

173,88 <

<u>2 657,88</u> \$

FALCONBR'DGE LIMITED

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SUMMARY 50 522 78

Invoice 15% serv. charge

7% GST

8% PST

TOTAL... 55-918,56 \$ 5476235

10.4

6.5



FACTURE - INVOICE

FORAGE DOMINIK (1981) INC. DOMINIK DRILLING (1981) INC.

C.P. / P.O. Box 247, Valid Or, P.Q. J9P 4P3 Téléphone: (819) 824 6839 - Télex: 057 45523

Falconbridge limited Lamba PCE LIMITED

No de facture / Invoice No.: 4349

P.O. Box 40

Date February 28, 1991

Falconbridge (Ontario) [MR 14 194

Termes - Net 7 jours / Terms - Net 7 Days

POM 1S0

EXPLORMATION GEOLOGY

SURFACE DIAMOND DRILLING BO BENNY PROPERTY FEBRUARY 16-28 / 1991 DRILL NO 1

Hole No. MV-91-10

From

142.0385 to 150.0000 = 7.9615 m coring x 42.40 = 337,57 150.0000 to 300.0000 - 150.0000 m coring x 43,55 = $\frac{6}{532,50}$ 300.0000 to 450.0000 - 150.0000 m coring x 44.65 = 6 697,50 ~

to 519,9951 $69.9951 \text{ m coring } \times 45.85^{-1}$ 3 209,28 1 450.0000

Hole No. HE-91-087

404.1697 to 450.0000 = 45.8303'm coring x 44.65 =2 046,32 (From

450.0000 to 550.4755 - 100.4755 m coring x 45.85 - 4.606.80

23 429,97 \$4

7% GST

1 640,10 <

25 070,07 \$

ACID TEST:

No. MV-91-10 : acid test at 30m, 183, 244m,305m,366m,427m,488m,518m.

No. HE-91-08: acid test at 457m.518m.

acid tests 55,00 = 165,00

 \times 65,00 = 455,00 acid tests

620,00 \$

7% GST

43,40

663,40 \$



FORAGE DOMINIK (1981) INC. Page No. No. Page 002 DOMINIK DRILLING (1981) INC. Invoice No. No. De Facture 4349

CONT '

OTHER COSTS:

Feb. 26: 24 man hrs (set-up on old hole, put rodes down)

Feb. 26: 12 drill hrs ("")

24 man hrs x 23,50 = 564,00

12 drill hrs x 22,00 = 264,00

78 GST 57,96

MATERIAL LEFT IN HOLE:

No. MV-90-10: 1 BW casing 10' x 131,67 - 131,67'

: 1 BW casing shoe x 185,00 185,00 316,67 \$

15% Service charge 47,50 - 7% GST 25,49 - 8% PST 25,33 - 414,99 \$

Contract n^o 121 679

Footage drilled 1720'
FALCONBRIDGE LIMITED

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PORABLEBOMINIK (1981) INC	/ENDOR !UMBER								
TPS: TUT 840 584 ACCOUNT CST 101 940 C94	COST CENTRE	AMOUNT	CR X						
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13121 1010151 1	G51-	1/723 053	<u>\$</u>						
CUE DATE		CUR W. J. C.							
APPROVED COULD	CKU & ADOS	MENY CHECKE	0						

SUMMARY

Invoiced

24 574.64 25 194,64 \$

15% Service charge

47,50

885,96 \$

7% GST

1-766-95/723

8% PST

25,33

TOTAL....

\$ 26 371.02

605 600

S.V.P. RETOURNER UNE COPIE AVEC VOTRE REMISE... MERCI



FACTURE INVOICE

FORAGE DOMINIK (1981) INC. DOMINIK DRILLING (1981) INC.

1080, rue de l'Écho C.P. / P.O. Box 247, Val d'Or, P.Q. J9P 4P3 16léphone (819) 824-6839 - Télex: 057-45523

FALCONBRIDGE limited

P.O. Box 40

Falconbridge (Ontario)

POM 1S0

No de facture / Invoice No.: 4287

Date January 31, 1991

Termes - Net 7 jours / Terms - Net 7 Days

SURFACE DIAMOND DRILLING BQ

DRILL NO 1

<u>L</u>

Hole No. HE-91-07- (Hexagone)

From 0.0000 to 7.3153 = 7.3153 m casing $x = 42.40^{\circ}$ = 310.17

7.3153 to 150.0000 - 142.6847 m coring \times 42.40 + 1.30 = 6,235.32

150.0000 to 300.0000 150.0000 m coring x = 43.55 + 1.30 = 6,727.50

300.0000 + 6.450.0000 = 150.0000 m coring x = 44.65 + 1.30 = 6,892.50

450.0000 to 516.94/1 66.9471 m coring \times 45.85 + 1.30 = 3,156.56

Standard

516.9471 to 574.8598 57.9127 m coring x 45.85 = 2,655.30

Hole No. MU-91 09

From 0.0000 to 9.1441 9.1441 m casing x 42.40 = 387.71

9.1441 to $62.7896 - 53.6455 \text{ m coring } \times 42.40$

= 2.274.57

\$ 28,639.63

Ş

7% TPS

2,004.77

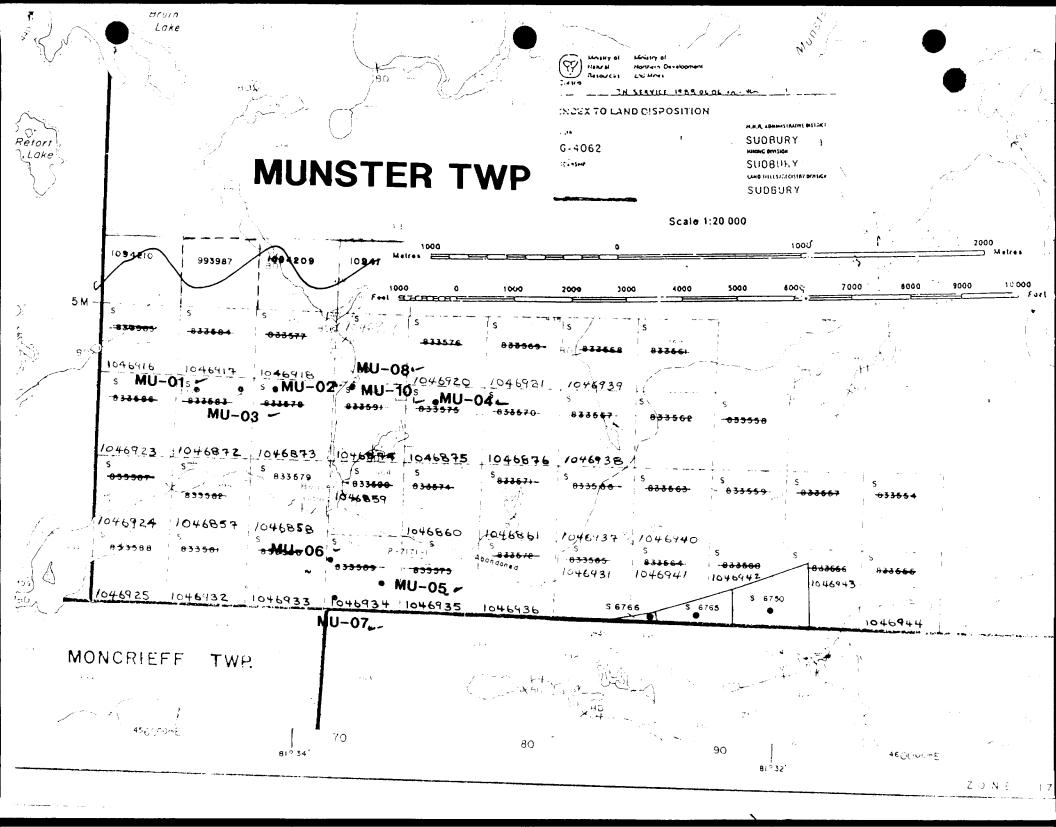
\$ 30,644.40

FALCONBRIDGE LIMITED

VOUCHER NUMBER	VENDOR NUMBER		
ACCOUNT	COST CENTRE	AMOUNT	CA
16 10 15 16 10 10 1	0161-13136	1 33 1489 89	e {
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		1 1	1 1
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DUE DATE		CURRENCY 35,830. (*(C)
APPROVED CODED	EXT & ADDS	A/PAY CHECKE	D

APPENDIX III

DRILL LOGS



HOLE NUMBER: MU-C'

COLLAR SURVEY: NO

MULTISHOT SURVEY: NO

ROD LOG: NO

PLOTTING COORDS GRID: GENEVA WEST UN NURTH 3.00N EAST: -7.80E ELEV:

COLLAR ASTRONOMIC AZIMUTH: 350° 0° 0"

397.00

ALTERNATE COORDS GRID: 0+ ON NORTH: EAST: 0+ 0€ 0.00

COLLAR DIP: -60°45' 0" LENGTH OF THE HOLE: 172.52m START DEPTH: 0.00m FINAL DEPTH: 172,52m

DATE: 28-February-1991

METRIC UNITS: X

ELEV:

GRID ASTRONOMIC AZIMUTH:

PULSE EM SURVEY: YES

CONTRACTOR: DOMINIK DRILLING PLUGGED: NO CASING: BW 10.97 m, LEFT IN HOLE HOLE SIZE: BQ

CORE STORAGE: CHELMSFORD

UTM COORD.: 5814194, 456274

IMPERIAL UNITS:

COMMENTS : TESTING EM-37 ANOMALY, RUSTY BAR-B-QUE TRENCH.

WEDGES AT:

DIRECTIONAL DATA:

PROJECT NAME: BENNY

DATE STARTED: October 19, 1990

DATE LOGGED: October 26, 1990

DATE COMPLETED: October 23, 1990

PROJECT NUMBER: 6232

Depth (m)	Astronomic Azimuth	Dip degrees	Type of Test	FLAG	Comments	Depth (m)	Astronomic Azimuth	Dip degrees	Type of Test	FLAG	Comments
10,90		-60°451	ACID	OK		1 -				-	
108.50		-56°451	ACID	OK		; -		-	-		
172.50		-55°30'	ACID	OK			-	-	-	-	
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FALCONBRIDGE LID

DRILL HOLE RECORD

HOLE NUMBER: MU-01

FROM ANGLE ROCK 10 TYPE TEXTURE AND STRUCTURE TO CA. ALTERATION MINERAL 12ATION REMARKS 0.00 Casing left in hole, 8.6 m of overburden 361 CASING īC «CAS» casing in hole NW. 8.6 m - 10.97 m broken. 10.97 core 1 cm - 10 cm rounded to angular pieces. · Fine grained to medium grained, green locally 10.97 PYROXENCTE ŤΟ DIKE #PXIT» with 5-10% dark green, 1-3 mm pyroxene pheno-20.25 crysts, phenocrysts evenly distributed and are subhedral. Generally massive and homogeneous. Joints 3-8/m at CA 75-65° out contact sharp at CA 90°. 20.25 RHYOLITE . Fine grained to very fine grained, grey to Network of fractures <1 mm 1/1-3 mm TO I TUFF WRTUFM with pinkish brown and light green dark grey, weak pinkish brown colouration 26.20 possibly due to hematite staining on fractures. colouration 1-4 mm about fractures, Homogeneous to very weakly foliated at CA 80hazy and sharp. 21.50-22.40: Open joint at CA 0°, broken core to 25.50 sharp angular pieces, also joints at CA 70° 1/10 cm. 26.20: Sharp irregular out contact. 26.20 * BASALT FLOW - Fine grained, green, generally homogeneous Quartz veins sharp at various CA angles, average 1 mm - 1 cm TO «BFLW» poor banding to very weakly banded at CA 50°, 70.13 1/10-30 cm, quartz also infilling light and dark green bands, moderately foliated at CA 50°, <1 mm fractures t light green epidote 1/10 cm. Locally contains mafic dikes, fine grained, green massive with 1-4 mm dark green pyroxene? phenocrysts. Approximately 5% phenocrysts, mafic dikes average 30 cm to 50 cm, sharp contacts eg 36.0 m. - Quartz veins <1 mm - 1 cm sharp 48.9-50.02 *STUF» Very fine grained, grey to Trace chalcopyrite as fracture reddish brown, poorly foliated, no banding, at various CA angles also quartz fillings ± quartz, <1 mm to 1 mm Siliceous, chert? Uphole contact sharp. fracture fillings 1/1-5 cm, specks, good fracture filling at at CA 60-70°. Downhole contact sharp at CA reddish brown colouration from 48.95. 80", To om white quartz vein with minor readish hematite about veins and fractures. brown hematite on downhole contact. 50.60: Good amygdutes over 50 cm, 1-4 mm round quartz infilling, approximately 3-8%.

HOLE NUMBER: MU-01

HOLE NUMBER: ML 01

FROM TO	ROCK TYPE	TEXTURE AND STRUCTURE	ANGLE TO CA	ALTERATION	MINERALIZATION	REMARKS
				57.75: Quartz carbonate vein 1 cm at CA 45°, not sampled.	- Chalcopyrite speck 1 mm in vein.	
		<i>y</i>			64.5-65.5: Sphalenite trace fracture filling? t quartz in fractures t pyrite, chalcopyrite? <1 mm - 1 mm fractures 1/10-30 cm.	
		i 	: 	66.50: Quartz calcite veins <1 mm to 1 cm, 1/1-2 cm over 30 cm, snarp, miso at 69.250, quartz- carbonate vein 5 mm to 1 cm sharp angular, fracture filling.	Possible sphalerite in vein at 69.20.	
	OLIVINE DIABASE	- Fine grained to medium grained, green, homogeneous, non-foliated, strongly magnetic, sharp uphole contact at CA 30°, chill margin to 70.50.		- Quartz veins + epidote average 5-10 cm, 1/3-6 m clear to white, sharp contacts at average CA 30-45°.		
		- Sharp downhole conatct at CA 30° basalt xenolith at 98.14-99.0 sharp contacts, strongly foliated segment.				
	ANDESITE/ BASALT TUFF «ABTF»	• fine grained, strongly banded, 5 mm - 1 cm alternating green and grey bands at CA 60°, strongly foliated parallel to banding, light grey bands siliceous hard, green bands chloritic soft. Fewer green chloritic bands down hole grades to RTUF interbedded RTUF- ABTUF?				
			i		89.82: Galena trace within <1 mm fracture ± quartz.	
		91.0-91.64: Mafic dike?/Sediment? Fine grained to medium grained, grey segment, non-banded contains 3% 3-6 mm round dark green porphs? phenos? some with tight green cores, sharp contacts at CA 70° parallel to banding.	:			
		92.0. Gradutional out contact over 1 m.				

HOLE NUMBER: MU 01

FROM TO	RUCK TYPE	TEXTURE AND STRUCTURE	ANGLE TO CA	ALTERATION	MINERAL ZATION	REMARKS
92.00 TO 132.00	2.00 RHYOLITE	- Fine grained to very fine grained, grey to light grey to grey preen, generally strongly banded light and dark grey to green bands average 1 cm at average CA 50°, contains up to 5-8% <1 mm to 2 mm average <1 mm to 1 mm grey quartz eyes locally possibly >10% over 10-30 cm eg 110.0 m. 104.0 and 123.30; average 1-3%. tocally blue quartz eyes eg 115.60; 1-3% <1 mm to 1 mm, quartz eyes round to ellipticle. Locally feldspar phenocrysts, appear white to buff 1-3 mm round, average 1-4% locally eg at 107.0 m. Grey bands hard siliceous, green bands soft chloritic micoceous. Locally contains mafic dikes generally with sharp contacts at CA 50° to parallel to foliation, dark green, fine grained with 1-3%, 1-3 m dark green phenocrysts, dikes average 10-20 cm, eg at 104.25.		- Quartz veins - clear to white average 20-40 cm sharp irregular contacts average 1/3-6 m to 115.6 m.	- Some veins contain 1 mm to 5 mm clots of pyrite and or pyrrhotite.	- Veins sampled for Au.
		120.00: Bands at CA 70°. 126.80-132.0: Light grey bands pinch - not continuous appear to be ellipticle fragments locally, possibly light grey rhyolite fragments approximately 1 cm x 5 to 10 cm in			120.0-121.0: Pyrite 3%, pyrrhotite 1-2% in <1 mm to 2 mm stringers generally parallel to foliation at CA 70°.	
10	ANDESTIE/	. ight green to grey matrix, possibly RTBX. - Very fine grained, grey green, bands at CA 70 to 80°, contains greenish brown 5 mm to		- Local carbonate veins ± quartz average 1-3 cm sharp at average CA	- Pyrrhotite, pyrite locally tend to concentrate in trace amounts in	
12.52	FLOW WARPEN	1 cm bands which are generally softer and thinner than the grey bands suggests possible pillow selvedge, very distinct locally and curve around grey segments, also locally have a dark green alteration halo, grey segments generally hard and are on average 5-10 cm thick, eg 132.45 best eg at 171.2. From 132.0 to 150.0 bands/pillows poorly formed, mixed interfingering of micaceous/ chloritic bands (selvege) with harder grey bands (pillore), average CA 70-80°, harrow pillows. eg 5 cm x 50 to 50 cm as seen on surface.		50° approximately three veins to 145.5 m.	chtoritic/micaceous (selvedge) bands.	

OLE NUMBER: MU-31			DRILL HOLE RECORD		DATE: 28-february-1991
FROM ROCK TO TYPE	TEXTURE AND STRUCTURE	ANGLE TO CA	AL FERATION	MINERALIZATION	REMARKS
	147.60-149.45 GDKE + Fine grained to med grained massive, sharp contacts uphole c at CA 30° chiled margin to 148.20 downst contact sharp at CA 30°, also at 152.80-154.0. 150.0-172.52: Pillows well formed, averal cm selvedge, green chloritic micaseous bands at CA 70-80° with 1 - 5 mm dark grighten alteration halo separated by dark to medium grey pillow core segments average 1-10 cm.	ontact nole		138.25-145.30: Pyrrhotite, pyrite stringers also minor clots flattened paratiel to foliation and disseminations, best concentration at 139.25-140.25, pyrrhotite 10-15%, pyrite 1-2% as stringers up to 2 cm, stringers average 1-4 mm condensed into 5-10 cm segments 1-2/m, local massive 5 cm pyrrhotite, pyrite slugs eg 143.3 and 144.4.	
172.52 END OF HOLI TO 172.52	ε ·				

HOLE NUMBER: MU-01

HOLE NUMBER: MU-TH2

PROJECT NAME: BENNY

CLAIM NUMBER: 70 46 8 13

PROJECT NUMBER: 5232

PLOTTING COORDS GRID: NORTH: EAST:

390.00N -400,00E 415.00

ALTERNATE COORDS GRID: UTM

GRID ASTRONOMIC AZIMUTH: " " "

NORTH: 0+ 0 EAST: 0+ 0 ELEV: 409.00

COLLAR DIP: -50° 0' 0" LENGTH OF THE HOLE: 407.22m START DEPIH: 0.00m

FINAL DEPTH: 407.22m

DATE: 6-March-1991

METRIC UNITS: X

COLLAR ASTRONOMIC AZIMUTH: -50° 0' 0"

ELEV:

DATE STARTED: October 21, 1990 DATE COMPLETED: October 24, 1990
DATE LOGGEO: November 21, 1990

COCATION: MUNSTER TOWNSHIP

COLLAR SURVEY: NO MULTISHOT SURVEY: NO /

ROD LOG: NO

PULSE EM SURVEY: NO PLUGGED: NO HOLE SIZE: BQ CONTRACTOR: Dominik Drilling

IMPERIAL UNITS:

CASING: BW CORE STORAGE: Chelmsford

UTM COORD.: 5184205N, 457009E, 409 m

COMMENTS: Test EM-37 conductor, Rusty Bar-B-Que Trench WEDGES AT:

DIRECTIONAL DATA:

epth (m)	Astronomic Azimuth	Dip degrees	Type of Test	FLAG	Comments	Depth (m)	Astronomic Aztmuth	Dip degrees	Type of Test	FLAG	Comments
9.10		-48° 0'	ACID	OK	The second secon						
91.40	-	-46°451	ACID	OK					•		
83.00		-49° 0'	AC1D				-	-		•	
74.00	•	-46°45	ACID	OK		-	-	•	-	•	
65.70	****	·42°45	ACID	OK			•	-	•	-	
99.00	337" 01	-46°30'	SING.SHOT	OK.				•	-		
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HOLE NUMBER: MU-02

FROM 200x ANGLE *0 TYPE TEXTURE AND STRUCTURE TO CA ALTERATION **MINERALIZATION** REMARKS 0.00 CASING Casing NW 20' in hole TO MIDDIN 6.10 6.10 | RHYGLITIC Fine grained, ranging from homogeneous medium - 2-3% mm-cm size quartz stringers TO I TUFF «RTUF» grey to a mottled buff grey, medium grey, MDXE's cause hematitic staining 71.13 various coloured <mm to +mm size elliptical of surrounding RTUF; reddishquartz eyes, clear to hazy blue and >mm - size pinkish to brown discolouration squarish cloudy white feldspar pheno's or on a cm-scale at the margins of possibly another variety of quartz pheno's MOKE 's local zones of compositional banding with mm. to cm size more felsic lamination less dominant. Sheared/bedded at 60° to CA. Occasional MDKE's, 5-40 cm wide, relatively fine grained, possibly diabase, non-magnetic. 5.10-10.12: Medium grey, homogeneous RTUF with 2-3% <mm-size hazy blue quartz is and 1% mm size feldspar/cloudy white quartz? pheno's. 10.12-30.6: Mottled buff grey/medium grey 10.12-30.60: 10-12% quartz vein; - Sparsely, fine grained, pyrite, comp banded RTUF with 12% quartz stringerscreating local bleached halo's pyrrhotite 0.2 to 0.3% in quartz veins, mm to 40 cm in size. MDKE's, 5-40 cm and incorporating RTUF fragments vein. 0.2% fine grained, pyrite as constituting 5% of interval, MDKE at 50° silicification due to quartz laminations mm-size in RTUF. veins, hematization due to MDKE's, to CA 29.26-30.00 broken up core, QVN, pinkish material, possible fault. pink-red-brown discolouration. 30.60-35,50: Medium grey, homogeneous RTUF with 2-3% <mm-size elliptical hazy blue quartz is and 1% mm-size feldspar/cloudy white quartz? squarish phenocrysts, minor felsic bands 1.5 cm in size with numerous clear quartz is locally up to 5.7%. 35.5-39.74: Mottled buff grey/medium grey 35.5-33.74: 2-3% quartz calcite Sparse, fine grained, pyrite PIUF with 30% MOKE's, 40-50 cm in size. : epidote stringers within MDKE's. 0.1 to 0.2%. 39.74: Significant increase in reldspan/cloudy : - tocalized pleaching about quartz white quartz? squarish pheno's up to 2-3%, stringers, chioritic inclusions 1.2% mm-size hazy blue, occasional 10.20 cm reddish brown staining around

DATE: 6 March-1991

FALCONERIDGE LID

E NUMBER: MI		ORILL HOLE RECORD	DATE: 6-Manch-1991		
ROM : ROCk TO 'Y무는	TEXTURE AND STRUCTURE	ANGLE ALTERATION	MINERALIZATION	REMARKS	
	MOKE.	MOKE's (hematization)			
:	: 51.00-71.13: Interbanding of homogeneous medium grey RTUF and mottled buff grey/medium grey RTUF 2-3% mm-size feldspar/cloudy white quartz? eyes and 2% mm-size hazy blue	51.81-53.75: 20% quartz vein at 30 to 60° to CA.	- 0.3 to 0.5% fine grained to coarse grained pyrite fractures and blebs (in quartz vein).	- SA32051.	
	elliptical quartz ##fsheared/bedded at 60-65° to CA \$56.69-65.00 #\$TRINGER ZONE-weakly mineralized slight silicified, pyrite, subordinate pyrhhotite stringer zone, with sphalerite fracture coatings 64.44-68.96 ##DKE-Fine grained to medium grained, non-magnetic.	56.69-65.00: Stight silicification in the stringer zone. 10% quartz stringers.	- Stringer zone: - up to 5% fine grained to medium grained anhedral pyrite as lamination 0.2% pyrrhotite blebs and trace-0.1% sphalerite as fracture infillings.	- SA32052 to SA32058.	
	68.96-71.13: RTUF breccia, cm-size more felsic fragments, fewer quartz is, mainly smm-size clear elliptical quartz is.	- Moderately siliceous.	- 0.3 to 0.5% mm-size pyrrhotite with subordinate pyrite stringers at 60° to CA, trace sphalerite as fracture infilling.	· \$A32059.	
.13 APFL/ATUF 10 .42	 Andesitic Pillowed Lava flow - weakly feldspar-phyric, fine grained to medium grained, medium green pillow cores with light green mm-cm size epidote altered pillow rims and possible hyaloclastite shards along and between rims, mm-size white feldspar phenocrysts. Occasional ATUF interbeds bedding at 70° to CA. 	- Pillow rims epidotized. 3-5% mm-size quartz ± calcite stringers.	- Pyrite/pyrrhotite 0.2% to 0.3% as fine grained as mm-size laminations.	- WRA SA22152 at 71.13 m.	
	[81,47-94,75] ★STUF#SILICEOUS tuff horizon with three major sections of good siliceous tuff, and banded pyrite/pyrchotite that is succounded by good peripheral stringer zones with moderate silicification and minor bleaching.	- Silicification of an ATUF percursor 2-3% quartz stringers.	pyrrhotite/pyrite as cm-size bands and stringers with trace chalcopyrite, galena, sphaterite as fracture fillings. Overall up to 10% pyrite/pyrrhotite stringers with trace chalcopyrite, sphalerite, galena fracture coatings.	- \$A32060 to \$A32070.	
	94.75-140.22: Slight increase in background sulphide content 7%, 10-40 cm fine grained MDKE's, non-magnetic.	 Quartz + epidote alteration along pillow rims and in patches. 2-3% quartz r calcite mm-size stringers. 	- 0.3% pyrite/pyrrhotite streaks/ stringers.	- \$A32076.	
•		:	99.18: 0.1 to 0.2% sphalerite in a	- SA32072,	

HOLE NUMBER: MU-02 DATE: 6-March-1991 ANGLE TYPE TEXTURE AND STRUCTURE TO CA ALTERATION MINERALIZATION REMARKS 10 mm-size pyrrhotite stringer. 109.50: 15 cm quartz + calcite 0.2 to 0.3% fine grained pyrite/ - SA32073. stringer at 20° to CA. pyrrhotite, 0.5% fine grained laminated sphalerite, trace gal ena. 113.42-114.47: 20% quartz : calcite - 0.3 to 0.5% blebs pyrite/ - SA32074. stringers 30-40° to CA. pyrrhotite. , {124.82-127.39 \stillesiliceous tuff horizon - Silicification disrupting bedding Up to 2% medium grained, - SA32075. WRA SA22152 at 128.36 m. pyrite, subordinate pyrrhotite followed by a 50 cm MDKE. Mixed bag of as mm-size laminations, trace fine ash beds and cherty material all overprinted by silicification; interbedded chalcopyrite blebs. more mafic chloritic mm-size tuff beds. 131.83-137.42 STUF» Very fine grained, Silicification, 1% quartz, quartz - SA32076 to SA32080. - 3. 0.5 m sections of semi-mass medium to dark grey, mainly cherty exhalitive i calcite, tourmaline stringers medium grained pyrite/ pyrrhotite, at 70° to CA. trace chalcopyrite, averaging horizon with 2-70 cm, fine grained MDKE's, 20 to 25% pyrite/pyrrhotite silicified APFL/ATUF sections with cm-size overall section 10-15% pyrite/ fine ash, buff coloured, bands. pyrrhotite. - Silicification. WRA SA22153 at 137,35 m. 137.30-140.35; Footwall alteration to the STUF mineralized zone, slight silicified D-RDTUF, bed, no apparent quartz is, destrowyed by alteration. 140.35-143.42: GDKE, medium grained, nonmagnetic. 143.42 ABFL Andesitic Basalt Massive Flow, fine grained - 2-3% quartz stringers with - Sparse pyrite/pyrrhotite to medium grained, medium to dark green, chloritic inclusion parallel to 151,07 relatively massive, slightly grifty. 151.07-158.11 kSTUF»Fine grained, light grey - Silicification cherty exhalitive 0.3-0.5% pyrite/pyrrhotite in - SA32081 to SA32083. to buff bands with sections of dark grey sections are carbonated. dark grey cherty exhalitive cherty exhalitive? sections, fine asn sections. mm.cm size laminations, brecciated, finely laminated mm-scale, weakly mineralized 12 cm MDKE at 154,45 m, mm·size quartz

HOLE NUMBER: MU-02

HOLE NUMBER: MU-02

FROM TO	ROCK	TEXTURE AND STRUCTURE	ANGLE TO CA	ALTERATION	MINERALIZATION	REMARKS
	APPLIANTED FIGURE P FLW	Andesitic pillow Lava (Andesite-Andesitic Basalt) fine grained, medium green with quartz and epidote alteration along pillow rims and as patchy alteration pods, minor hyaloclastic shands with chloritic cores, feidspariphyric, mmissize feidspariphyric, mmissize feidspariphenois, locally few quartz-filled amygdules.		- 3-5% cm-size quartz calcite stringers quartz epidote alteration as pods and along pillow rims.	- 0.2% fine grained, pyrite/ pyrrhotite, mm-size stringers.	
					165.60-166.30: 0.5 to 0.7% pyrite/ pyrrhotite stringers, mm-size, cm size pyrite/pyrrhotite stringers parellel to CA with 0.1% chalcopyrite, sphalerite.	- SA32084.
	1	166.50-174.52 HATUF#Localized section looks more tuffaceous with good laminations, mm-scale, minor quartz-calcite stringers		- 2-3% quartz calcite stringers at 60-70° to CA.	- 0.1% sphalerite specks in the quartz-calcite stringers, 0.3 to 0.5% pyrite/pyrrhotite stringers, mm-size through out section.	- SA32085 to SA32091.
		. 174.52: Slightly more quantz : epidote amygdules >mm-size, up to 1-2%, slighly fewer quantz t calcite stringers <2%, thicker pillows or else massive flow section, occ GOKE, <5% of total.		 Quartz-epidote alteration along pillow rims and in pods (cm-size) bands of spotty calcite alteration possible calcite in a few amygdules? 	- 0.2% disseminated pyrite/pyrrhotite.	
	: !	184.10-186.17: GDKE, medium grained, non- magnetic, carbonated?		- Partially carbonated calcite,		
	! !			188.00-195.65: Slightly more quartz ± epidote alteration, 5% quartz stringers with chloritic inclusions at 45° to CA.		- WRA SA22154 at 186.22 m.
		195.65-198.60 MQVNw3 m quartz vein at 40° to CA. Cloudy white quartz, ch(oritized fragments and fracture coatings.		 Major 3 m wide quartz vetn chioritic alteration of APFL fragments. 	 0.2% cm-size pyrrhotite slugs, 0.1% fine grained disseminated pyrite. 	- SA32092 to SA32094.
	ANDESIFIC TUFF WATUFN	Andesitic fuff, fine grained, medium green, finely laminated, mm-scale, intruded by MOKE's, Sudbury-type breccia, locally feldspar-phyric sections. Leucoxene-phyric sections SOBX; cherty and flow-like andesite matrix with heterolithic fragments, MOXE's, fine grained to medium grained, poscimagnetic.		- 2-3% quartz and calcite stringers quartz-epidote alteration, fracture- controlled in the intrusive rocks.	- Medium grained to coarse grained pyrrhotite with subordinate pyrite as blebs, slugs and stringers, trace chalcopyrite, 0.3 to 0.5% pyrrhotite/pyrite overall.	

DATE: 6-March-1991

HOSE WOMBERS MOSTILE

TEXTURE AND STRUCTURE	ANGLE TO CA	ALTERATION	# MINERALIZATION	REMARKS
207.30-214.50: Numerous MDKE's, SDBX.	İ	- Quartz-epidote stringer type miteration, 2-3% quartz calcite stringer.	 Pyrrhotite, subordinate pyrite up to 0.5%, stringers and slugs, trace chalcopyrite, sphalerite. 	- SA32095 to SA32096
· · · · · · · · · · · · · · · · · · ·		214.30-217.30: 10% quartz, quartz + calcite stringers.	- 0.3 to 0.5% pyrrhotite/pyrite, trace sphalerite, chalcopyrite.	- sA32097.
221.00: Local sections of feldspan-phyric ATUF andesitic tuff, >mm-size feldspan phenos, increasing quartz-epidote alteration in fractures.		- Quantz-epidote stringer-type alteration.		
228.00-232.56: SDBX, MDKE's with minimum sections of ATUE.		- 3% quartz stringers at 65 to 70° to CA, quartz-epidote stringer type alteration.	- Trace sphalerite, chalcopyrite 0.1 to 0.2% pyrite/pyrrhotite.	
232.56: Very fine grained feldspar pheno's <mm-size.< td=""><td></td><td>232.56: Slightly less quartz-epidote stringer-type alteration, <1% discordant, mm-size quartz- celcite stringers, cm-size quartz laminations parallel to bedding.</td><td>1 </td><td></td></mm-size.<>		232.56: Slightly less quartz-epidote stringer-type alteration, <1% discordant, mm-size quartz- celcite stringers, cm-size quartz laminations parallel to bedding.	1 	
239.91-269.00: Leucoxene bearing ATUF section mm-size pinkish flecks of TiO2, up to 1% increasing percentage of quartz lamination parallel to bedding.		- Increasing silicification.		
247-252: Fine grained to medium grained gritty diabase dike, with minor xenoliths?		!		
270.06-284.50: Weakly mineralized/altered horizon, silicified ATUF with stringer/disseminated pyrite, subordinate pyrchotite.	:	- Weak to moderate silicification,	 0.3 to 0.5% fine grained to medium grained disseminated/ stringer pyrite, minor pyrrhotite, mm-size stringers. 	
286.40-288.96: RED CHERT - ALTERED RTUF salmon pink discolouration due to hematite staining, fine grained, siliceous looking, medium grey to salmon pink, few if any quartz eyes, obliterated by alteration?	:	- Hematization of RTUF <1% quartz+ calcite blebs/stringers.	- 0.2 to 0.3% pyrite/pyrrhotite blebs.	

DATE: 6-March-1991

E NUMB	ER: MUHGC			DRILL MOLE RECORD	DATE: 6-March-1991	
OH C	ROCA 14PE	TEXTURE AND STRUCTURE	ANGLE TO CA		MINERAL1ZATION	REMARKS
10 8.07	BELWARUE; AND THE SECOND TO SECOND THE SECON	Massive basatt flow or massive basalt tuff. Fine grained, medium green, relatively massive, structureless, mm-size quartz-epidote stringer type alteration, slight increase in chloritic atteration suggesting more mafic composition. occ SOBX-type dikes, <1%.				
		288.56-295.50: Slightly more altered/mineralized section of BFLW/BTUF?	ļ	- Slightly more silicified.	 0.3 to 0.5% medium grained, disseminated pyrite, trace pyrrhotite. 	
				302.55: cm-size quartz-epidote stringer with slugs of magnetite.	 cm-sized band of magnetite where 50% magnetic, 5% pyrrhotite, trace pyrite. 	- ыка sa 22155 at 305.61 m.
		317.50-320.31: Carbonate BFLW/BTUF? section.		317.50-320.31: Localized carbonated section of BTUF/BFLW displaying mm-size quartz-calcite patches alteration and epidote, quartz, calcite stringer-type alteration.	319.70-320.0: 30 cm zone with sphalerite stringers mm-size, estimate 2-3% sphalerite over 30 cm interval.	- SA32098.
		320.31-321.50: BTUF, fine grained, medium grey, finely laminated, mm-scale, good bedding indicative of tuff, 1% quart laminae, mm-cm scale, bedding/foliation at 45° to CA.		- Slighly silicification.	- Trace chalcopyrite, 0.2 to 0.3% pyrrhotite/pyrite seams.	- SA32099.
				334.60-335.25: Quartz vein with chloritic inclusion at 45° to CA.	- 0.1 to 0.2% disseminated pyrite.	
:		. 336.00-349.15: slight increase in alteration/ immenal-zation subtle increase.		 Slight silicification, quartz aminae/blebs, 1%-2% quartz, quartz-epidote, quartz calcite stringers, mm-size. 	- 0.3-0.5% pyrrhotite, subordinate pyrite, trace chalcopyrite in stringers (overall intersection) up to 3% pyrrhotite over 30 cm sections.	- SA32100 , SA32151 , SA32152
		356.30-359.00: Quartz, chlorite, carbonate-rich, section with chalcopyrite-bearing stringers, subtle alteration change.		 Weakly silicified with chlorite- calcite alteration carbonate mostly fracture controlled. 5% quartz-calcite stringers at 30° to CA. 	 - Up to 3% pyrrhotite, locally subordinate pyrite, trace chalcopyrite in quartz blebs and stringers. 	- SA32153 to SA32155.
		1364.03-365.67 ⊷IRON FORMATION→Massive magnetite laminations, mm-cm-size, with chlorite and	:	- Silicified, with chlorite, calcite alteration.	- Semi-massive to massive magnetite, 0.3 to 0.5% blebs	- SA32156 to SA32157,

HOLE NUMBER: MU-02

FROM ROCK TO TYPE	TEXTURE AND STRUCTURE	ANGLE: TO CAI	ALTERATION	MINERALIZATION	REMARKS
	calcite bands, mainly mmisize, magnetite is brecciated into cmisize fragments with a quartz, chlorite, calcite matrix.			and mm-size stringers of pyrhotite, subordinate medium grained disseminated pyrite.	
	367.50-376.85 MCDXEMCarbonated, medium grained, gabbroic/diabase relatively massive dike, non-magnetic, 3-5% quartz vein, which calcite and epidotized walfrock inclusions possibly carbonated volcanic material?? alteration may have affected grain size?				
			373.69: 25 cm quartz-calcite vein at 35-40° to CA, epidote alteration associated with quartz vein possibly hematite staining also.	- Sparse 0.1% disseminated pyrite.	
			376.85-388.50: Moderate epidote- quartz ± calcité stringer-type alteration.	- Medium grained disseminated euhedral pyrite, 0.2 to 0.3% trace flecks of sphalerite?	
;	388.93-391.00: SDBX, fragments are heterolithic, matrix flow-like possibly andesitic in composition.				
	391.00-398.07: Altered ATUF grading into huronian metaseds; grey wacke, quartzite, conglomerate.		 Patchy calcite, cm-size silicified. 	- Nit.	
3.07 OLARTZ TO CLARTZ CONDLOTER ATE	- Huronian Metaseds - alternating beds of medium grey siltstone and dark grey argillite/mudstone, cm-scale, grading into conglomerate, clast supported? soft sediment deformation.		- Moderate carbonate alteration,		
7.22 END OF HOLE 7.22					

HOLE NUMBER: MU-02

DATE: 6-March-1991

HOLE NUMBER: MU-03

PROJECT NAME: BENNY PROJECT NUMBER: 6232

CLAIM NUMBER: 75 + 5 4 5 7 2 LOCATION: Munster

PLOTTING COORDS GRID: NORTH: EAST: ELEV:

352.00N -6.00E ALTERNATE COORDS GRID: UTM NORTH: 0+ 0 EAST: 0+ 0

GRID ASTRONOMIC AZIMUTH: " " "

ELEV: 412.00

COLLAR DIP: -50° 0' 0" LENGTH OF THE HOLE: 291.39m START DEPTH: 0.00m

FINAL DEPTH: 291.39m

DATE: 28-February-1991

METRIC UNITS: X

COLLAR ASTRONOMIC AZIMUTH: 355° 0' 0"

COLLAR SURVEY: NO MULTISHOT SURVEY: NO

DATE STARTED: October 26, 1990 DATE COMPLETED: October 28, 1990 DATE LOGGED: November 21, 1990

ROD LOG: NO

PULSE EM SURVEY: YES PLUGGED: NO

HOLE SIZE: BO

CONTRACTOR: Dominik Drilling

IMPERIAL UNITS:

CASING: BW

CORE STORAGE: Chelmsford
UTM COORD.: 5184240N, 456453E, 412 m

COMMENTS : Test Rusty BarrBrque horizon and EM-37 anomaly WEDGES AT:

DIRECTIONAL DATA:

Depth (m)	Astronomic Azimuth	Dip degrees	Type of Test	FLAG Comments	Depth (m)	Astronomic Azimuth	Dip degrees		FLAG	Comments
10.00		D• 0'	ACID	Broken test tube			-	-		
93.27	-	-45°15'	ACID	OK			-	-	-	
'82.80		-41°451		OK		•	-	-	-	
274.30	•	-37°45 •	AC10	ЭK	-	-	-	-	•	
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HOLE NUMBER: MU-US

ANGLE: FROM ROCK ALTERATION MINERALIZATION 10 TYPE TEXTURE AND STRUCTURE TO CA REMARKS Overburden, 89 core, 8W casing left in hole 10 0.00 | CASING 10 # dobyw ft? 12 ft? 3.50 3.50 RHYOLLTE Fine grained to very fine grained, light to TO TUFF WRTUF " dank grey with light to dank green to buff and 60.00 reddish brown bands. Generally grey with weak to moderate banding, coloured bands as mentioned above average 1 mm to 1 cm and have hazy diffuse contacts, generally occur 1/mm.cm in local segments up to 1 m eg 13.5 m, bands at CA 70 to 80°, possibly alteration bands parallel to a strong foliation at CA 70-80°. Contains up to 12% quartz eyes, average <1 mm to 1 mm round to ellipticle 5-8% grey quartz eyes and 1-2% blue quartz eyes, eg 27.40. - Locally contains possible feldspar phenocrysts 1% <1 mm to 1 mm white round to ellipticle phenocrysts eg 27.40. - Contaions 10% MD's, generally fine grained to medium grained, dark green to green, with 1-8% dark green <1 mm to 2 mm phenocrysts, average dike 20 cm to 50 cm up to 1 1/2 m, good example at 8.60 to 10.1 average 1/3-6 m, contacts, sharp generally at CA 45-60°, contacts crosscuts foliation and banding of host rock, MD's weakly foliated parallel to host rock foliation. Contains 10% cherty pervasive reddish brown sections, hematite staining plus silicification. Very hard, example at 7.92 to 8.5, 14.44 to 17.07 and 38.70 to 39.70. 54.0: Orill bit wearing out. Grinxing bit, core has shallow "S" shaped curvature, core has a I mm to 3 mm black spiraling band on the core surface due to grinding. 50.0: Gradational out contact over 1.2 m.

HOLE NUMBER: ML 17

ORILL HOLE RECORD

LOGGED BY: O. Crick

HOLE NUMBER: MU-03

ROCK ANGLE 10 TYPE TEXTURE AND STRUCTURE TO CA ALTERATION **MINERALIZATION** REMARKS 60,00 + BASALT FLOW Fine grained, grey green, moderately banded, 10% quartz veins i calcite - Pyrrhotite locally 2 to 5% **«**BFL₩» light to dark grey and green diffuse bands generally 3 to 10 cm with sharp over 1 m as 4 mm stringers 291.39 | ANDESTTE average 1 mm to 1 cm at CA 70°, generally fine irregular contacts, appear clear and 1 mm to 4 mm laminations BASALT grained grey and poorly banded. Locally to white, commonly carrying parallel to foliation. Pyrite TUFF? possible amygdules example 70.15 m 1-2 mm trace to 1% with pyrrhotite pyrrhotite ± pyrite, 1 to 5 mm «ABTF?» stringers best at 90.22 to 97.15 round to ellipticle quartz filled amygdules. clots also possible, brown (sections of ABTF, ABMF, ABPillowed Flow). mineral? MD's similar to above 1/3-6 m good example at 62.79 to 65.0. 95.4-96.15: Conductor? Pyrrhotite stringers weakly connected, conductive up to 10 to 15 cm. 3 pyrrhotite stringers 5 mm to 1 cm at average CA 70° with disseminations and discontinuous laminations. 10% pyrrhotite with minor pyrite, local 3 mm pyrite cubes. 1110.40-112.85 ARG*Fine grained, grey to - Calcite infilling fractures <1 mm Pyrite-pyrrhotite trace to 2% black, generally grey with sharp <1 mm to and discontinuous to 1 to 2 mm laminations <1 mm to 4 mm 1 cm black beds/laminations at average sharp fractures at various CA parallel to beds and with calcite. angles 1/cm moderate - strong CA 80° 1/mm-cm, graphite on some planes, very conductive but very isolated and alteration. discontinuous, unit as a whole non-conductive. Uphole contact sharp at CA 90°. Downhole contact sharp at CA 80". 111.0-111.85: Quartz vein and 112.3-112.5; MD's, fine grained, green calcite white, sharp irregular contacts at various CA angles, sharp contacts at CA 80-90°. | 112.5-165.50: Moderately well banded, cm-scale : - Quartz : calcite stringer-type · Trace sphalerite stringers, mm-size. relatively massive sections, good feldspan alteration. phyric sections, mm-size squarish feldspar phenocrysts, up to 3 to 5%, bedding 140.62-140.74: Quartz-calcite - Trace sphalerite flecks, 0.2% approximately 90° to CA. 2-3% fine grained stringers uphole contact at 80° to blebs of pyrrhotite in stringer. MDKE's, 10 to 30 cm, <mm-size Leucoxene CA, downhole contact at 60° to CA, chioritic inclusions, clots, concordant quartz taminations, H.W. to argillite has quartzmm-cm size. epidote stringers. - 0.3 to 0.5% pyrrhotite, minor 163.50-164.20 «ARGZ»Medium to dark grey, - Very weakly carbonated. - Au2 very finely laminated, mm-scale, traces pyrite, mm-size stringers. 0.2% of graphite, minor sections of ATUF-ABTUF, graphite along bedding planes. bedding at 45° to CA, sharp contacts.

DA16: 28-February-1991

FROM ROCK ANGLE TYPE ITO CAL **ALTERATION** MINERALIZATION REMARKS TEXTURE AND STRUCTURE 164.20-165.09: Slightly increased altered/ Weak silicification - 2 to 3% pyrrhotite stringer mineralized section with pyrrhotite stringers zone, moderately conductive over and slight bleaching of ABFL/ABTUF? 173.90-174.70 ARGZ Medium grey to dark grey Moderately carbonated, mm-size 1% pyrchotite stringers, trace - Au? with light green bands of interbedded ABTUF, calcite fracture infillings. pyrite, trace sphalerite in quartz cm-scale, finely laminated on a mm-scale. calcite stringers, trace graphite? 175.00-229.00: Spiral marks on core, bit worn? Pushing the | |218.62-218.90| ARGZ Medium to dark grey, Weakly carbonated. Carbonate pods, - Trace to 0.2% graphite, 0.3% very fine grained mudstone, very finely cm-size. pyrrhotite laminations, mm-scale. drill machine? (aminated, mm-scale, graphite-bearing, weakly conductive over 2 to 5 cm bedding at 45 to 50" to CA. Very fine grained disseminated \$231.64-235.08 ASTUF#Medium grey with buff - Silicified. bands, very fine grained cherty, minor pyrite/pyrrhotite 0.1 to 0.2%, ATUF beds, mm-cm scale, fine grained pinkish trace chalcopyrite fine grained leucoxene grains, mm-size, siliceous. dissemination. 235.60-236.65: cm cherty stringer with seamy sphalerite, 5-7% sphalerite over interval. 235.68-239.10: GDKE, gritty chloritic, medium grained, non-magnetic. 2% mm-size quartz calcite stringer, - 0.1% disseminated pyrite/pyrrhotite. 239.10-244.58: Slight increase in quartz-2% quartz stringers. calcite stringer-type alteration. 1 1244.58-246.81 ASTUF Weak siliceous tuff, - Silicified. - 0.2 to 0.3% mm-size pyrrhotite stringers, trace chalcopyrite possible mudstone beds interbedded with quartz laminations, stringers? buff fine weakly disseminated. ash layers; cm-scale, cherty in sections. 2-3% quantz-calcite ± epidote 246.81-291.39 ABFL*Pillowed section/ massive tuff? probably massive ABTUF or stringers, mm·cm size. Andesitic baselt pillow lava. Slight increase in quartz-epidote stringer-type alteration appear to be bands of glass shards hyalociastite material, cm-size suggesting pillow selvages? local sections appear amygdaloidal, quartz filled >mm-cm size, few feldspar phenocrysts, mm-size, <1%.

-1. F NUMBER: MU 03

HOLE NUMBER: MU-03

FALCONBRIDGE LTD DRILL HOLE RECORD HOLE NUMBER: MU-03 DATE: 28-February-1991

FROM ROCK TO TYPE	TEXTURE AND STRUCTURE	ANGLE TO CA	ALTERATION	MINERALIZATION	REMARKS
291.39 END OF HOLE					
70 291.39					

FALCONBRIDGE LID

DRILL HOLE RECORD

IMPERIAL UNITS:

CATE: 6-March-1991 METRIC UNITS: X

PROJECT NAME: BENNY PLOTTING COORDS GRID:

1.73N -11.34E ALTERNATE COORDS GRID: NORTH: 0+ D

COLLAR DIP: -55" CT OF LENGTH OF THE HOLE: 190.81m

PROJECT NUMBER: 6232

HOLE NUMBER: ML 04

NORTH: EAST:

EAST: 0+ 0

START DEPTH: 0.00m

CLAIM NUMBER: 3 34 7 75 LOCATION: MUNSTER

ELEV:

ELEV: 407.00

FINAL DEPTH: 190.81m

COLLAR ASTRONOMIC AZIMUTH: 360° 0' 0"

GRID ASTRONOMIC AZIMUTH: " " "

DATE STARTED: October 28, 1990 DATE COMPLETED: October 29, 1990 DATE LOGGED: November 15, 1990

COLLAR SURVEY: NO

PULSE EM SURVEY: NO

CONTRACTOR: Dominik Drilling CASING: BW

MULTISHOT SURVEY: NO / ROD LOG: NO

PLUGGED: NO HOLE SIZE: BQ

CORE STORAGE: Cheimsford UTM COORD.: 5184010N, 457200E, 407 m

WEDGES AT:

COMMENTS : Test blind EM-37 anomaly.

DIRECTIONAL DATA:

epth (m)	Astronomic Azimuth	Dip degrees	Type of Test	FLAG	Comments	Depth (m)	Astronomic Azimuth	Dip degrees	Type of Test	FLAG	Comments
9.14		-52*151	ACID	OK		1 -			•	-	
91.44		-52°15'	ACID	OK		j -		-	-		
190,81		-45°45'	ACID	DK		-	-	•	-	-	
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HOLE NUMBER: MI HA DATE: 6-March-1991 C D C W RUCK ANGLE CT TYPE TEXTURE AND STRUCTURE TO CA ALTERATION MINERALIZATION REMARKS 0.00 - CASING 6.56 m NW casing. *0 wiop La 6.56 6.56 ABFL/ABTUF? Andesite Basalt flow/tuff?, fine grained, Quartz- epidote patchy alteration - Sparse pyrite/pyrrhotite 0.1%. medium green, relatively massive, quartz-(weakly),1-3% quartz, quartz ± 17.54 epidote patchy alteration, weakly feldsparcalcite stringers at 30-50° to CA, phyric, mm-size, occasional fine grained MDKE. mm-size, discordant to foliation. 17.54 SITIJOYER Rhyolitic Tuff, fine grained light grey to Quartz laminations, mm-cm scale 10 TUFF WRTUEN white 5-7% quartz is ranging from elliptical 17.89-18.09, 20 cm quartz yein at 32.49 clear, mm-size, to cloudy white squarish 30° to CA, chloritic inclusions, phenos (possible feldspar? doubtful) mm->mm calcite blebs cm-size. size, mm-cm scale bedding, with buff coloured beds and minor chloritic mafic beds at 60° to CA, occasional MDKE's. 18.74-19.58: MOKE at 55° to CA, (both contacts) fine grained to medium grained, relatively massive, non-magnetic, bordering on diabase? Quartz-epidote stringer type 32.49 ANDESITE Andesitic basait flow/tuff? fine grained to - 0.2-0.3% disseminated fine TO BASLAT FLOW medium green, relatively massive, weakly alteration 47.37 to 47.57, grained pyrite. 64.48 OR TUFF? feldspar-phyric, mm-size, 1-2%, foliation quartz-calcite stringer at 60° «ABFL/ABTES to CA, chlorite inclusions, 50 to 55° to CA, minor quartz-epidote stringer alteration, quartz-calcite stringers, 1%, mm-size, 3-5%, 10 to 40 cm GDKE's, medium carbonate blebs. grained, non-magnetic. 62.21: 5 cm quartz, calcite, - 5% slug of galena, 2-3% pyrrhotite - SA32169. epidote stringer at 30° to CA. stringer over 5 cm interval. 64.48 RHYOLITE Rhyolite tuff, fine grained, light grey to Quartz lamination, mm-cm scale. - trace disseminated pyrite/pyrrhotite. TO | TUFF white, good lamination, with buff white Weak quartz-epidote alteration. 72.26 KRTUF .. beds, mm-scale chloritic beds <5%, mm-size elliptical clear quartz is and >mm-size squarish cloudy white quartz phenos (possible feldspar?) 5% total phenocrysts, downhole contact slight hematite alteration causing a pinkish discolouration, bedding at 70-80°

HOLE NUMBER: Millia

DRILL HOLE RECORD

LOGGED BY: D. Crick

PAGE:

E NUMBER: MU-04		FALCONBRIDGE LID DRILL HOLE RECORD		DATE: 6-March-1991
ROM ROCK TO TYPE	TEXTURE AND STRUCTURE	ANGLE TO CA AUTERATION	MINERALIZATION	REMARKS
72.26 ABFL/ABTF? 70 95.12	Andesitic Basait Flow/Tuff? fine grained, medium green, relatively mussive, weakly teldspar phyric, fairly non-descript rock, foliation at 60° to CA.	- Moderate quantz-epidote stringer type, 1%, 2-3% quantz- catcite i epidote stringers.	- Sparse 0.1% disseminated pyrite/pyrrhotite.	
75 X	Siliceous tuff, fine grained, grey with white bands, green mm-size chloritic seams, mm-cm scale lamination, enveloping a semi-massive pyrite/pyrrhotite section with peripheral stringer-type pyrite/pyrrhotite and sphalerite stringers almost appears like a RTUF within interbedded ATUF? however no no quartz is, more of an alteration appearance than primary composition.	· Silicified, quartz laminae concordant.	95.12-96.72: 2-3% mm-cm size pyrite/ pyrrhotite stringers. 96.72-97.20: Semi-massive pyrite/ pyrrhotite lens, honey comb texture. 97.52: 1 cm quartz-calcite stringer with sphalerite flecks 97.52-102.41: 0.3-0.5% pyrite/ pyrrhotite stringers.	
02.41 ATUF/AMFL?	Andesite Tuff/Flow? fine grained, medium gn, andesitic tuff, weakly feldspar-phyric vague to good bedding at 55° to CA, quartz-epidotecalcite str. type alteration and a STUF horizon.	- 3-5% quartz : epidote, calcite stringers mm-cm size.	- Sparse pyrite/pyrrhotite 0.1 to 0.2%.	*
	{126.65-129.15 wSTUFwSiticified ATUF horizon enveloping a MSUS tens at 127.58 to 127.71 with peripheral stringer sulfides, fine grained, siticeous, med grey bleached ATUF. 40 cm fine grained MDKE, uphole contact at 128.18 m.	- Silicified.	126.65-127.58: 5-7% stringer pyrite/pyrrhotite, trace chalcopyrite. 127.58-127.71: MSUS pyrite/ pyrrhotite, trace chalcopyrite. 127.71-128.18: 5-7% stringers of pyrite/pyrrhotite, trace chalcopyrite. 128.18-129.65: 0.3-0.5% pyrite with subordinate pyrrhotite as mm-size stringers and disseminated.	
i	129.65: Slight increase in quartz, quartz + calcite stringers, bedding more distinct at 65° to CA. 135.80-138.85: Slight increase in alteration/ mineralization causing subtle bleaching of ATUF possible fault at 138.85?	- Stight increase in silicification.	- 0.5-0.7% pyrite/pyrrhotite as mm-size stringers.	

DRILL HOLE RECORD

HOLE NUMBER: MUTHA DATE: 6-March-1991 ANGLE TO CA FROM ROCK TEXTURE AND STRUCTURE MINERAL IZATION 10 TYPE ALTERATION REMARKS 140.0-172.52: 3:5% patchy quartz-epidote 140.0: 5 cm quartz-calcite - 0.5% sphalerite as mm-size flecks · SA32176. alteration 1-2% quartz stringers, bedding brecciated zone containing in quartz calcite breccia, at 65° to CA, 1% quartz-calcite stringers, angular ATUF fragments, 0.1 to 0.2% chalcopyrite. mm:size. mm-cm size, quartz-epidote patches, quartz, quartz-calcite stringers. 173.50 181 12: moderate increase in alterationy Increased quartz-epidote, Up to 10% seamy, cm-thick - SA32177-80. mineralization, possible SDBX-type dykes, calcite fractured-controlled pyrite/pyrrhotite in local sections. Trace galena in possible fault at 180.00 m, broken up core. alteration. quartz-calcite stringers, mm-size. 190.81 END OF HOLE 10 190.81

HOLE NUMBER: MU-04

DRILL HOLE RECORD

LOGGED BY: D. Crick

PAGE: 4

FALCONBRIDGE LID

DRILL HOLE RECORD

IMPERIAL UNITS:

DATE: 6-March 1991 METRIC UNITS: X

HOLE NUMBER: MU: 05

PROJECT NAME: BENNY

PROJECT NUMBER: 6232

CLAIM NUMBER: 10455 LOCATION: MUNSTER TOWNSHIP

PLOTTING COORDS GRID: NORTH: EAST:

COLLAR SURVEY: NO

ROO LOG: NO

MULTISHOT SURVEY: NO

-656.00N ·795,00E ALTERNATE COORDS GRID:

NORTH: 0+ ON EAST: 0+ 0E ELEV: 435.00

GRID ASTRONOMIC AZIMUTH: " " H

COLLAR DIP: -50° 91 00 LENGTH OF THE HOLE: 164,20m.

START DEPTH: 0.00m FINAL DEPTH: 164.20m

DATE STARTED: November 4, 1990 DATE COMPLETED: November 5, 1990

DATE LOGGED: December 12, 1990

COLLAR ASTRONOMIC AZIMUTH: 55° 0' 0"

ELEV:

PULSE EM SURVEY: YES

PLUGGED: NO HOLE SIZE: BQ

CONTRACTOR: DOMINIK DRILLING

CASING: BW CORE STORAGE: CHELMSFORD UTM COORD.: 5183130N, 457066E, 435 m

COMMENTS: TESTING GROUND EM-37 ANOMALY AT NORANDA TRENCH

WEDGES AT:

DIRECTIONAL DATA:

Depth (m)	Astronomic Azimuth	degrees	Test		Comments	Depth (m)	Astronomic Azimuth	Dip degrees	Type of Test	FLAG	Comments
9.14	-	-52°151	ACID	OK		-		-		-	
91.44 164.20		-49° 0' -45°45'	ACID	OK OK		:	-		-	-	
104.20	-	-45 45.	ACID				-			-	
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HOUE NUMBER: MU (45) DATE: 5-March-1991 FROM ANGLE Price 10 TYPE TEXTURE AND STRUCTURE TO CA ALTERATION **MINERALIZATION** REMARKS 0.00 CASING - - BQ, core, BW casing left in hole, overburden. *O wrob-n 3.05 3.05 | RHYOLITE Fine grained, medium grey, brecciated in - 1% quartz-calcite stringers TO TUFF «RTUF» sections, intruded by (MDKE swarm, localized silicified sections. 164.20 i fine grained to medium grained, non-magnetic 10-60 cm, constituting 10-20%), few clear and hazy blue quartz is, mm-size, cloudy white quartz is, mm-size, totalling 1-3% brecciated sections maybe ash flow tuff, pumice fragments (framme structures?). Bedding at 65 to 70° to CA; poor to good, mm.cm scale. 26-26.20: Few mm-size, medium grained pyrite/pyrrhotites stringers, constitute 5% of interval. : 27: Slight increase in quartz-calcute strungers, - 1-3% quartz calcite stringers. 1-3X. 35-40.5: Zone of hazey blue quartz is, >mm·size, 38.41-39.00: 5-7% mm-size quartz-5-7%. epidote porphyroblasts 3 cm quartz-epidote band. 40.50-43.00: Well laminated section, partially precciated, possible pumice fragments, flattened, 41.45-43.00, section with mm-size, pale pinkish, possible lecoxene clots?/garnets? possible ash flow | 45.06-52.57: Slight increase in quantz-calcite >carbonated, slight increase in Stringers, MDKE is chloritized in this section, silicification. core is soft. 52.57-52.94: Fine grained, carbonaceous chert, - Pyrite/pyrrhotite fracture - SA32404 Carbonated (calcite) jet black, very weakly conductive, slightly infillings, 1-2%, trace carbonated. graphite. 52.94-70.0: Ash flow tuff section, flattened, : - Possibly chloritic? - W.R.A. at 61-64 \$A22160 F.W. om-size wispy pumice fragments; dark grey, possibly chloritized. \$56.18-60.80 CHT/CHA-25% of interval is fine - Carbonate (calcite) as stringers/ - 2-3% pyrrhotite lesser pyrite Mineralization concentrated in grained exhalative jet black, chert-cherty fracture infillings/possible as discontinuous seams, fracture CHI/CHA and carbonated ash flow

.E NUMBER	:: MU-05			FALCONBRIDGE LID DRILL HOLE RECORD		DATE: 5-March-1991
POM TO	ROC# *YPE	*EXTURE AND STRUCTURE	ANGLE'	ALTERATION	MINERALIZATION	REMARKS
		angillite, interbanded with ash flow tuff; carbonated, slightly silicified, 40 cm iamprophyre dike, with 5% mm-size brown biotite flakes. 10 cm CHT/CHA sections are very weakly conductive.	:	silicification.	infillings/stringers, trace graphite.	tuff \$A32405-32409.
		95.10-100.60: Altered/mineralized section, silicified carbonated RTUF section >mm-size (95.10-98.50) pinkish porphyroblasts?? 104.00-105.46 diabase dike/BMFL? fine grained chloritic, non-magnetic, bedding at 90° to CA RTUF exhibits good lamination/bedding, mm-cm scale, brecciated in sections?		 Silicified, carbonated section. Chlorite immediately associated with pyrite mineralization minor quartz-stringers. 	95.77-95.80: 3 cm band of coarse grained anhedral pyrite pods forming a band. Mainly pyrite/pyrnotite stringers, sphalerite blebs, chalcopyrite stringers overall 0.7 to 0.9% pyrite/pyrnotite, trace sphalerite, chalcopyrite.	
		109.95-117.40 #STUF»Fine grained, siliceous, carbonated "exhalative", primary STUF norizon, H.W. side of CHT exhalative. 20% fine grained chloritic BMFL or dipbase dike, relatively massive, weakly carbonated.		Silicification, carbonate stringer/lemination and blebs (calcite) locally chloritic alteration near intense mineralization.	109.95-110.40: Semi massive sutphide, pyrite/pyrrhotite with chalcopyrite blebs, sphalerite stringers, up to 1% chalcopyrite, sphalerite over interval upto 3% pyrite/pyrrhotite stringers, trace sphalerite, chalcopyrite over entire STUF section.	- SA32412-SA32416
		117.40-120.70 wCHT/CHAW50-60% of interval fine grained, finely laminated, jet black, carbonaceous chert, interbedded with STUF; carbonated, local semi massive suiphide lens, chert horizons very weakly conductive.		 Silicification, carbonate stringers/ blebs (calcite) chlorite near intense mineralization. 	 Locally semi-massive sulphide lens 10 cm max, 5% discontinuous seams, mm-cm size pyrite/pyrrhotite, trace sphalerite, chalcopyrite, graphite. 1% fine grained, sphalerite fracture coating in chert sections. 	- SA32417-32419 , SA32422 , SA32423
		120.70-128.50: Ash flow tuff section, flattened angular possible pumice fragments, cmisize, numerous mmisize clear quartz is, 5-7%.				- W.R.A. SA22161 at 120.77 m.
					132.80-133.00; 10% pyrite/ pyrrhotite stringers.	
				133.90-134.30: 2-10 cm quantz stringers at 65-70° to CA.	- 10% coarse grained discontinuous seamy pyrite; subordinate pyrrhotite.	
i		135,00 138,00: →mm-size cloudy white quantz shards, 5%, 80 cm diabase dike with quantz-				

HOLE NUMBER: MU-05

FROM TO	ROCK TYPE	TEXTURE AND STRUCTURE	ANGLE 10 CA	ALTERATION	MINERALIZATION	REMARKS
		calcite fracture infillings. (F4 138-145} (F41)	, - Mod	erately carbonated.		- Broken up core over entire interval.
:		143-156.42: Pinkish hematite stained RTUF in sections, BTUF bed at 152.50-154.00, megium grey RTUF sections with cloudy white ammissize quartz phenocrysts, 1.5 m carbonated GDKE at 159.90 to 161.40 m, hole ends with 0.75 m andesitic tuff bed.		om quantz vein at 30° to CA, 4.60-164.80).	- 3-4 cm coarse grained, pyrite slug at downhole contact of quartz vein.	
164.20 TO 164.20	END OF HOLE					

FALCONBRIDGE LTD HOLE NUMBER: MU 04 DRILL HOLE RECORD

PLOTTING COORDS GRID:

-675.00N NORTH: EAST: -1000,00E

CLAIM NUMBER: /E 4 E 7 33 EAST: 0+ OE LOCATION: MUNSTER TOWNSHIP ELEV: 415.00 ELEV: 415.00

GRID ASTRONOMIC AZIMUTH: " " " COLLAR ASTRONOMIC AZIMUTH: 360° 0' 0"

PULSE EM SURVEY: YES
PLUGGED: NO COLLAR SURVEY: NO

DATE STARTED: November 5, 1990 DATE COMPLETED: November 7, 1990 DATE LOGGED: December 12, 1990 MULTISHOT SURVEY: NO -CASING: 8W ROU .OG: NO HOLE SIZE: 80 CORE STORAGE: CHELMSFORD

UTM COORD.: 5183210N, 456879E, 415 m

ALTERNATE COORDS GRID:

NORTH: 0+ ON

COMMENTS : FEST GROUND EM-37 ANOMALY AT NORANDA TRENCH WEDGES AT:

DIRECTIONAL DATA:

PROJECT NAME: BENNY

PROJECT NUMBER: 6232

Depth (m)	Astronomic Azimuth	Dip degre e s	Type of Test	FLAG	Comments	Depth (m)	Astronomic Azimuth	Dip degrees	Type of Test	FLAG	Comments
9.14		-53°15'	ACID	OK		-				-	
91.44	•	-53°15′		OK		-		-	-	•	
182.88	÷	52°15	ACID	OK		-	•	-	-	-	
243.84		-53°15+	AC10	ОK		-	•	-	-	-	
275.15		510151		ОЖ		•	•	-	-	-	
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DATE: 6-March 1991

COLLAR DIP: -55° 01 01

START DEPTH: 0.00m

FINAL DEPTH: 275.15m

LENGTH OF THE HOLE: 275.15m

METRIC UNITS: X

IMPERIAL UNITS:

CONTRACTOR: DOMINIK DRILLING

HOLE NUMBER: Mission

FROM TO	₽(3), k * YPE	TEXTURE AND STRUCTURE	ANGLE TO CA	ALTERATION	MINERALIZATION	REMARKS
0.00 TO 3.22	CASING * ob;+	- BQ core, BW casing, left in hole, overburden.				
3.22 10 0.78	ANDESITE FLOW WAFEWN	- Yery fine grained, medium grey green, relatively massive, weakly feldspar-phyric andesite massive flow intruded by GDKE, swarm, fine grained to medium grained (diabasic texture) non-magnetic, foliation at 60° to CA. Dikes are difficult to distinguish from flow, except a subtle grain size difference, brittle when broken and lacked subtle flow banding average dike component 50-60%, 1-5 m.		- <1%, mm-size, quartz-calcite stringers. 38.11-38.21: 10 cm quartz stringer at 30° to CA, possible brown tourmaline blebs, green tourmaline prism-like crystals.	- D.2-0.3% pyrrhotite, D.1% disseminated pyrite.	- WRA SA22162 at 14 m.
		61.65-61.90: Argillite with interbedded siltstone, mm-cm scale, jet black argillite beds, with grey siltstone beds. Soft sediment deformation, broken up beds, bedding at 70° to CA.			- 0.2-0.3% pyrrhotite blebs.	
		68.90-75.00: Slight increase in quartz- calcite-epidote fracture infillings.		- 1% quartz-calcite-epidote fracture infillings 70.49-70.64, 74.82-75.16, quartz veins at 30° to CA, green tourmaline prism-like crystals.		
		86.68-102.80 HCRAWCherty? argillite interbedded with siltstone, mm:cm scale, minor STUF sections, bedding at 70° to CA, soft sediment deformation structures, brecciated beds locally, possible fault at 102-102.80, broken up core.		- STUF intervals are moderately to strongly carbonated (calcite) 101.45-102.00: Quartz-calcite vein with 5 cm section of coarse grained pyrrhotite, subordinate pyrite band.	- 1% pyrrhotite stringers parallel to bedding, trace chalcopyrite, 1-2% medium grained discordant pyrite fracture coatings/stringers mm-cm size. 100.60-100.80: 1% chalcopyrite over 20 cm section of CHA. trace graphite along foliation planes, trace galena.	- \$A32426-\$A32437.
		102.80-110.78 GDKE Fine grained to medium grained, almost diabase texture, non-magnetic.				

ANGLE TYPE TEXTURE AND STRUCTURE TO CA ALTERATION MINERAL IZATION ſΟ REMARKS 110.78 , RHYOLITE Fine grained, siliceous, medium grey, <1% quartz-calcite stringers - WRA SA22163 at 117.50 m. TUFF «RTUF» . 70 Rhyolite, quartz is xtal tuff, mm-size, mm·size. 229.20 hazey blue, cloudy white, quartz is a 10%. locally, foliation at 65° to CA, interpedded ATUF beds, 10-15%, very fine grained, medium to light green, relatively massive, weakly carbonated, occasional GDKE, 10-50 cm, / medium grained, non-magnetic. 132.07-134.00 KCHA*Fine grained, finely - Weakly carbonated. - 0.5% pyrite stringers, mm-size, - SA32438, SA32439 laminated, mm-scale, dark grey to black, fracture coatings, trace of cherty argillite. Undulating bedding, bedding graphite. at 65° to CA. 152.85-152.95: 5 cm of broken up core, - Trace graphite, 5% pyrite CHERTY ARGILLITE SEAM. stringers. 162.33-166.23: Section of amygdaloidal ABFL, Moderately carbonated. fine grained, medium green, moderately carbonated (calcite), quantz-calcite infilled amygdules, possibly brecciated? 172.50: 10 cm quartz vein with - Nii - WRA at 179.50 m SA22164. chloritic seams. 211.68: 5 cm quartz-calcite - Nil stringer at 15° to CA. 212.27: Same stringer bends back into core? 229.20 GABBRO - Gabbro dike, fine grained to medium grained, 2% quantz-calcite, quantz-epidote - 0.3% medium grained disseminated 70 DIKE «GDKE» diabase texture? non-magnetic. fractures, mm-size, hematite euhedral pyrite. staining associated with dike intrusion. 232.13-234.55: Quartz vein at 65° to CA, hematite stained, chloritic inclusions, minor calcite fracture infillings. BASALT FLOW : - Fine grained, medium green to dark green, - 2-3% quartz-epidote stringers, 264.64 - Nit - WRA at 267,00 m SA22165. TO «BFLW» chloritic, relatively massive, subtle flow

1% quartz stringers, cm-size.

banding, weakly foliated at 55° to CA

mm·s·ze.

localized band of quartz-epidote amygdules,

HOLE NUMBER: MU-UA

275.15

HOLE NUMBER: ML-06 DATE: 5-March 1991 ANGLE 70 TYPE TEXTURE AND STRUCTURE 10 CA ALTERATION MINERALIZATION REMARKS ---275.15 | END OF HOLE 10 | 275.15 |

HOLE NUMBER: MU On

DRILL HOLE RECORD

LOGGED BY: D. CRICK

PAGE: 4

HOLE NUMBER: ML 07

FALCONBRIDGE LTD DRILL HOLE RECORD

IMPERIAL UNITS:

DATE: 6-March 1991 METRIC UNITS: X

PROJECT NAME: BENNY PROJECT NUMBER: 6232

AIM NUMBER: 1/14/2/18/1 Trop CLAIM NUMBER:

PLOTTING COORDS GRID: NORTH: EAST:

COLLAR ASTRONOMIC AZIMUTH: 25° 0° 0"

-808.00N -900.00E ELEV: 425.00

ALTERNATE COORDS GRID:

GRID ASTRONOMIC AZIMUTH: " " "

NORTH: 0+ ON EAST: 0+ 0E 0.00 ELEV:

COLLAR DIP: -55° 01 04 LENGTH OF THE HOLE: 361.50m

START DEPTH: 0.00m FINAL DEPTH: 361.50m

DATE STARTED: November 8, 1990 DATE COMPLETED: November 10, 1990 DATE LOGGED: December 13, 1990

COLLAR SURVEY: NO MULTISHOT SURVEY: NO

ROD LOG: NO

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

CONTRACTOR: DOMINIK DRILLING

CASING: BW

CORE STORAGE: CHELMSFORD UTM COORD.: 5183055N, 456900E, 425 m

COMMENTS: TEST EM CONDUCTOR AT NORANDA TRENCH WEDGES AT:

DIRECTIONAL DATA:

Depth (m)	Astronomic Azimuth	Dip degrees	Type of Test	FLAG	Comments	Depth (m)	Astronomic Azimuth	Dip d eg rees	Type of Test	FLAG	Comments
9,14		-55°30°	ACID	OK		-	-		-	-	
93.27		52°151		DK.		-		-	-		
184.71		-53°15 (ACID	OK		-		•	-	-	
276.15		-52°15'	ACID	OK			*	-	-	-	
361.50	-	50° 0'	ACID	0K			-	-	•		
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HOLE NUMBER: MU U.

FROM ROCK ANGLE TYPE TEXTURE AND STRUCTURE TO CA ALTERATION MINERALIZATION REMARKS ΤO - 3.05 m BW casing, left in hole, BQ core, - 3.05 m casing reported but core 0.00 CASING begins at 6.33 m. TO overburden. * ob -> 6.33 6.33 STIJOYHR · RIUF breccia in sections with interbedded, · Core is spiralled in sections. 20-40%, AMFL-FP, RTUF - fine grained, - WRA SA22166 at 36.00 m. 10 TUFF WRIUF» 62.18 medium grey with dark grey, cm-size, fragments 5-7% clear-cloudy white, <mm-mm size quartz is, AMFL-FP, very fine grained, medium: green, mm-size feldspar phenocrysts, occassional GDKE, (possible diabase) 10 cm to m size, fine grained, non-magnetic. 39.20-40.70: 15-20% quantz-calcite 0.3-0.5% fine grained disseminated - SA32440 Au? stringers at 40-50° to CA, pyrite/ lesser pyrrhotite. chloritic inclusions, epidotized inclusions of wallrock. 62.18: RTUF brecciated near contact with AFLW. 62.18 ANDESITE - fine grained, medium green grey, possible Moderately carbonated, mm-size - WRA SA22167 at 81.97 m. quartz-calcite stringers, mm-size TO ! FLOW «AFLW» | pillowed, epidotized, palagonitized pillow 132,53 blebs, 1-2% quartz-epidote fracture rims, localized sections appear amygdaloidal, fillings. 70-71 mm-cm size, quartz-calcite filled, 10-15% diabase dikes, 0.3% disseminated pyrrhotite, 10-80 cm, fine grained, non-magnetic. quartz-epidote fracture fillings, lesser pyrite. at 20-30° to CA. 77.47-78.03: possible lamprophyre dike. 3% coarse grained biotite flakes. 90.52-92.82 ACHA » fine grained, finely laminated - <1% quartz-calcite stringers, - 0.3% pyrite/pyrrhotite fractures - SA32441, SA32442. mm-scale, minor siltstone beds, cm-scale, mm-size. fillings, mm-size. graphitic along foliation planes, bedding at 70-80° to CA. 125.20-127.85 ACHA/SLS*Interbedded cherty - Siltstone slightly chloritic. - 0.5% pyrrhotite/pyrite stringers argillite, fine grained, jet black and mm-size, trace graphite along foliated planes mineralization siltstone, fine grained, medium grey green, interbedded at cm mm scale. Bedding at 80° parallel to bedding. to CA undulating bedding. -WRA SA22168 at 128.00 m. 127.85-132.53: Minor banks of CHA, mm cm.

scale within AFLW-FP.

HOLE NUMBER: ML fil

*ROM ***********************************	POCK TYPE	TEXTURE AND STRUCTURE	ANGLE TO CA	ALTERATION	MINERALIZATION	REMARKS
132.53 TO 177.60	CHA CHA/SUS	CHA mineralized exhalative horizon, 60% CHA minor siltstone component, 30% GDKE swarm; remainder STUF, minor RTUF sections - CHA; very fine grained, dark black with interbedded grey siltstone beds, mm- m scale bedding at 80° to CA, CHA sections 1-3 m. GDKE, fine grained to medium grained, non-magnetic, almost diabasic textures, 50 cm - 4.5 m, STUF sections, very fine grained, light grey, contains most base metal concentrations, 50-150 cm, CHA exhibits soft sediment deformation and broken up beds.		- 2% quartz-calcite stringers/ fracture fillings, mm-size, 3 and 8 cm bands of more intense quartz- calcite stringers siticification and minor chloritic alteration near intense mineralization. Silicified.	: - 132-165.00: 10 cm massive sulphide at (154.87 to 154.97 m), pyrite, minor pyrrhotite. 10% pyrrhotite/pyrite stringers, blebs and discontinuous seams. Trace chalcopyrite, sphalerite throughout CHA/SLS sections (trace graphite).	- SA32443-SA32450, SA06351-SA06356.
				173.27-174.37, 110 cm quartz vein, chloritic inclusions, 0.2% chalcopyrite, 0.3% pyrrhotite stringers network.	165.00-177.14: 10, 85, 30 cm sections of semi-massive sulphide to massive sulphide predominantly pyrrhotite, minor pyrite, locally 1% sphalerite, 0.2% chalcopyrite over 90 cm at (174.35-175.25) trace graphite.	- SA06357-SA06361, - Best intersection (SA06359)
	RHYOLITE TUFF #RTUF>	- Minor RTUF sections, up to 50 cm, to the end of the CHA/SLS intersection from 177.60 on RTUF dominant rhyolite tuff - (quartz is xtal tuff). Fine grained, medium grey, finely laminated, mm-scale, 10-12% clear-hazey blue, <mm->mm size quartz is, less cloudy white possible feldspar/or quartz phenocrysts.</mm->		- Weak sericite alteration? especially footwall to CHA/ SLS section.		- WRA SA22169 FW to CHA/SLS zone.
	: 	193.86-195.00: Pink discolouration about quartz calcite, pyrrhotite stringers, also flecks of pinkish possible discoloured carbonate grains, mm-size possible garnets?		- 1% quartz-calcite stringers.	 mm-size pyrrhotite fracture fillings, 0.2% pyrrhotite/ pyrite. 	
				198.72-199.70: 43 cm quartz vein with chloritic inclusions, 1, 3 cm quartz stringers, at 40 to 60° to CA.	 18 cm massive slug of pyrrhotite at up hole contact of large quartz vein, trace pyrite and galena. 	
	: : : :	199.35:213.46: 5%, 10:80 cm, Andesite massive flow/tuff? beds, possibly bleached dikes?, fine grained, light to medium green, relatively massive, slightly silicified contacts sharp, minor interbeds with the dominant RTMF. Andesitic beds appear weakly feldspar.phyric, mmisize, localized zones.		 Slightly silicified, >1% quartz- calcite stringers, mm-size, only in the Andesitic interbeds. 	- 0.3-0.5% pyrrhotite/lesser pyrite mainly associated with quartz calcite stringers.	

HOLE NUMBER: MU-07

ANGLE . 401 TEXTURE AND STRUCTURE TO CAL ALTERATION MINERALIZATION REMARKS 210.92 211.75: Broken up core, quartz veinmaterial, RTUF, possible fault zone? 211.24-211.60: Broken up quartz-- SA06363. - 20% coarse grained, pyrite pods calcite vein, numerous chloritic in quartz-calcite vein, 0.5% inclusions. galena as mm-size fracture fillings, trace sphalerite, trace chalcopyrite. 213.46 : BASALT FLOW Basait intruded by GDKE (bordering on diabase) Quantz-epidote stringer network, - WRA SA22170 at 236.60 m. TO : WITH GABBRO swarm. approximately 2-3%, 1% quartz-271.40 - DIKE Basait (possible andesitic basalt?) fine calcite fracture fillings, 217.22 ***BFLW/GDKE *** to 217.54, 30 cm quartz-calcite grained, medium to dank green, relatively - 0.3% pyrrhotite blebs, mm-size. - SA06364. massive, localized possible amygdaloidal veins, at 50° to CA, chloritic zone? quartz-calcite filled, quartz-epidote inclusions/epidotized GDKE flags. stringer network, mm-size GDKE, fine grained to medium grained, mineralized, magnetic, possible 00° swarm-like, 10 cm to m size, carbonated, contacts at 45-50° to CA, RTUF sections, up to 1 m, 5.7% of total interval. d229.80-236.40 ←RTUF*Rhyolite bed, fine grained, medium grey, 7-10%, mm-size hazey blue, elliptical quartz is, 239-242: Local quartz-calcite filled i - 1%, cm size quartz-calcite amygdaloidal BfLW section. stringers at 30° to CA. 245-248: 2% quantz-calcite - 0.1% disseminated galena, trace chalcopyrite, 0.2-0.3% stringer, mm-5 cm. pyrite/pyrrhotite stringers, <mm-size. | {251.05-253} «¡FAI}» Broken up core, possible fault zone? 254-259,50: 3-5% quartz-epidote stringer alteration peaks here. - Au potential? SA06371-SA06377. \$260.00-269.00 WSILICEOUS ZONE SILICIFIED BFLW Silicification, moderate - 1% fine grained to medium grained zone, with 70 cm RTUF interbed. carbonate (calcite) and localized WRA SA22171 at 270.40 m. euhedral pyrite cubes as mm-size chlorite bands near pyrite laminations and disseminated. lamination, 2-3% calcite ± quartz fracture fillings, mm to cm size epidote alteration bands, fracture

KOLE NUMBER: MU-07	
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FROM *0	ROCK TYPE	TEXTURE AND STRUCTURE	ANGLE TO CA	ALTERATION	MINERALIZATION	REMARKS
				fillings, over cm bands.		
271.40 TO 353.26	RHYOLITE TUFF «RTUF»	- Fine grained, light to medium grey, Rhyolite tuff with numerous, cloudy white-clear hazev blue elliptical smm to mm size quartz is 5-7% laminated at cm-scale, discolouration due to alteration, epidote to green, hematite to pink, 2-3% interbedded BFLW/BTUF sections, occasional GDKES, 10-100 cm, fine grained to medium grained, non-magnetic, approximately 2% of interval, felsic dikes at up hole interval, 20% of 217.00 to 301.00 m quartz, possible feldspar phenocrysts in a chloritic matrix, intrusive equivalent to the RTUF? possible mafic diorite? 20 cm to 3 m dikes.		 Localized hematite discoloration quartz lamination, minor epidote stringer network alteration in RTUF, mainly in the BFLW/BTUF and GDKE's due to composition? 		- WRA SA22172 at 301.75 m.
		293-315: Slight increase in concordant quartz lamination, cm-size, 5-7% over interval, bedding and quartz lamination at 80° to CA.		 2-3% quartz stringers at 45° to CA, discordant to bedding. Slightly greenish-yellow discoloration due to epidotization. 		
		317-323: GDKE's appear a little more mafic with <1% mm-size biotite flakes, slight increase in mineralization constitute 40% of interval.		 Epidote ± quartz stringers, mm-size associated with the pyrite mineralization. 		
	: ! !				318.42-319.28: Slightly mineralized GDKE. 0.5% disseminated pyrite, fine grained, all dikes contain 0.3-0.5% disseminated fine grained pyrite.	
		339-353.26: Excellent >mm-size hazey blue quartz is, 3-5%.	;			
		351.00-353.26: Slightly more siliceous section with slightly increased mineralization. RIUE is a pale buff grey in colour with quantz-ralcite stringers.		- 2-3% discordant quantz-calcite stringers mm-cm size.	- 0.5% pyrrhotite pods with trace gaiena.	· \$406378.
353.26 ro 361.50	#BFLWn	- fine grained, medium green, relatively massive, massive Basalt flow/tuff?, quartr-epidote-calcite stringers, chlorite, foliation at 70° to CA.		 Moderately quantz-epidote stringer network, 5%, 1% quantz calcite stringers, mm-size containing, very fine grained brown, soft mineral probably tournaline, cm-size wispy bands. 		

HOLE NUMBER: MU-37

FROM ROCK TO TYPE	TEXTURE AND STRUCTURE	ANGLE' TO CA	ALTERATION	MINERAL1ZATION	REMARKS
360 a:	.66-361.50: DTUF, interbed ² , 2-3%, mm-si ark grey quartz is to end of hole.				
361.50 END OF HOLE TO 361.50					

FALCONBRIDGE LTD

DRILL HOLE RECORD

IMPERIAL UNITS:

DATE: 6-March-1991 METRIC UNITS: x

HOLE NUMBER: MIR-08

PROLECT NAME: BENNY

PROJECT NUMBER: 6232

PLOTTING COORDS GRID:

NORTH: EAST: ELEV:

311.00N -45.00E ALTERNATE COORDS GRID:

GRID ASTRONOMIC AZIMUTH: " "

NORTH: 0+ ON EAST: 0+ DE

ELEV: 409.00

LENGTH OF THE HOLE: 370.64m START DEPTH: 0,00m

FINAL DEPTH: 370,64m

COLLAR DIP: -65° 01 0"

CLAIM NUMBER: 1046 919

COLLAR ASTRONOMIC AZIMUTH: 20° 0' 0"

PULSE EM SURVEY: YES

CONTRACTOR: DOMINIK DRILLING

DATE STARTED: November 11, 1990 DATE COMPLETED: November 15, 1990

DATE LOGGED: December 14, 1990

COLLAR SURVEY: NO MULTISHOT SURVEY: NO ROD LOG: NO

PLUGGED: NO HOLE SIZE: BQ

CASING: BW

CORE STORAGE: CHELMSFORD

UTM COORD.: 5184205N, 457009E, 409 m

COMMENTS : TEST ALTERATION AND SURFACE BASE METAL ANOMALIES NEAR THE SERICITE PIT. WEDGES AT:

DIRECTIONAL DATA:

Depth (m)	Astronomic Azimuth	Dip degrees		FLAG	Comments	Depth (m)	Astronomic Azimuth	Dip degrees	Type of Test	FLAG	Comments
9.14		-64°15	ACID	OK		-	-	•			
91.44		-62°30'	ACID	OK						-	
182.88	•	-63°30'	ACID	OK			•		•	-	
276.15	•	-61°15'	ACID	OK		-		-	-	-	
183.79	19° 0'	-62° 0'	SING.SHOT			•	-	-	•	+	
366.67	22° 0'	-60° 0	SING, SHOT				-	-	•	•	
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HOLE NUMBER: MU 08	
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MCR3 OT	ROCK TYPE	TEXTURE AND STRUCTURE	ANGLE: TO CA! ALTERATION	MINERALIZATION	REMARKS
0.00 TO 6.35	CASING wiobin	- 6.35 m of BW casing, left in hole, overburden.	;		
6.35 ANDESITE TO : TUFF WATUF# 68.80		Very fine grained, light to medium green, finely laminated, mm-scale, well defined bedding, quartz-epidote-calcite stringer network alteration, bedding at 60° to CA, localized Sudbury breccia-type dikes, cm-size, <1% often near fault zones.	Quartz-epidote stringer network, mm-cm size, increasing intensity around fault increase significantly from 12.10 m to fault. <1% quartz-calcite stringers, mm-size.	9.85-12.37: 0.5% pyrite/pyrrhotite stringers, mm-size with semi massive pyrite, minor pyrrhotite, lens from 11.70 to 12.10.	- SA06386 to SA06388 - WRA SA22174 at 12.65 m.
	 - -	16.57-18.84 FAI +Broken up core, fault gouge, brecciated, altered section.	 - Quartz-calcite stringers, mm-size, approximately 1-2% quartz-epidote stringer network intense. 	- 0.2% galema as fracture fillings in quartz-calcite stringers.	- SA06389-SA06391.
	i i	İ	18.84-23.17: Moderate quartz- epidote stringer network.	- 0.2% pyrite fracture filling, trace galena.	- SA06392, SA06393.
		37.83-38.00: Possible fault?, fault gouge altered broken up core.	; - Intense quantz-epidote-calcite : stringer network.	- 38.07-38.50: Semi massive to massive pyrite, minor pyrrhotite, trace galena.	- SA06394, SA06395.
			38.50-43.47: Slightly bleached section, moderately mineralized section, intense quartz-epidote fracture filling, quartz-calcite fracture fillings, 5% quartz-calcite stringers with chloritic inclusions, minor green tourmaline.	 Moderately mineralized section, 0.5% disseminated pyrite/ pyrrhotite, 0.1% galena as fracture coatings. 	- \$A06396 to \$A06399.
		53.30-54.00: ATUF is brecciated, due to quartz-epidote and quartz-calcite stringer networks.			
		\$4.65.60.20: Subtle, slightly bleached zone of ATUF, slight increase in alteration/mineralization, bedding at 45% to CA.	 Slightly silicification, quartz- epidote, quartz-calcite, fracture network chlorite alteration near 2-24 cm quartz stringers at 45° to CA epidotized and chlorite inclusions. 	 0.5% fine grained pyrite/ pyrrhotite stringers, <mm mm<br="" to="">size, concordant and discordant to bedding/foliation, trace chalcopyrite in quartz- calcite fracture fillings.</mm> 	- SA06400, SA32181 to SA32183.
		60.20-67.60: Numerous quantz-epidote bands, cm-size, possible preferential alteration of fetsic samination? slightly attered/ mineralized zone at up hole contact with	- 20% quartz-epidote lamination slightly silicification near dike.		

OUE NUMBER: MI - IR			PAUCONBRIDGE LID ORTHE HOLE RECORD		DATE: 6-March-1991
FROM POCK TO TYPE	TEXTURE AND STRUCTURE	ANGLE TO CA	AL FERALLON	MINERALIZATION	REMARKS
			vein with epidotized selvages and chloritic inclusions.	chalcopyrite concentrated in the selvages.	
	181.50:201.43: Slightly altered mineralized DTUF with MDKE and Sudbury breccia-type dikes apparent near down hole contact proximat to a fault. Subtle bleaching associated with slight increase in mineralization in DTUF.		 Quartz-epidote stringer network increases towards fault weak silicification. 	 0.5% pyrrhotite, minor pyrite stringers with trace chalcopyrite, galena, sphalerite. Galena along fracture surfaces especially close to fault. 	- SA32186, SA32187 to SA32196. - WRA SA22178 at 183.00 m.
	{201.37-102.43 km FAI wFault gouge, broken up core Sudbury breccia and MOKE prominent around fault zone especially within 1 m of the up hole contact.				- SA32197.
201.43 ANDESITE TO TUFF/DACTE TUFF ATUF/DTUF*	minor component, sections of good ATUF				- wRA SA22179 at 210.00 m - SA32198 to SA32199.
:	201.43-205.04: Dominantly SIUF horizon, with cherty exhalative beds intercalated with ATUF, and minor fine ash layers, mm-cm scale.		- 2-3% quartz laminations parallel to bedding foliation.	- 0.5% pyrite/pyrrhotite pods/ stringers, mm-size.	:
i.			<pre>- <1% quantz-calcite fracture- fillings.</pre>	- Trace sphalerite, galena.	· !
	205.04-218.65: Fairly uniform brownish grey AfUF section with minor mm:size cherty laminations, very fine grained material possible ash or even argillaceous sediment?		- 10 cm quartz stringer with smaller 2-4 cm stringers at 60° to CA, 207.00-207.70 m weakly carbonated (1% quartz-calcite fracture fillings) except between 211-212.70, moderately carbonated quartz-calcite epidote fracture fillings up to 5%	- 5% pyrite, pyrrhotite pods, 0.2% epidote seams/blebs, mm-size.	- SA32200.
	218.65-244.00: Fairty uniform grey green	i i	- 30% quartz t calcute laminations	· Zones of quartz impregnation tend	- SA32301 to SA32309.

HOUSE NUMBERS MILLION DATE: 6 March 1991 8107 ANGLE TEXTURE AND STRUCTURE ALTERATION **MINERALIZATION** TO 1834 A3 01 -REMARKS vein with epidotized selvages and chalcopyrite concentrated in the chloritic inclusions. selvages. Quartz-epidote stringer network - \$A32186, \$A32187 to \$A32196. 181.50-201.43: Slightly altered mineralized 0.5% pyrrhotite, minor pyrite DTUE with MDKE and Sudbury breccia-type dikes increases towards fault weak stringers with trace WRA SA22178 at 183,00 m apparent near down hate contact proximal silicification. chalcopyrite, galena, sphalerite. Galena along fracture surfaces to a fault. Subtle bleaching associated with slight increase in mineralization in especially close to fault. DTUF. |201.37-102.43||| FAI|| Fault gouge, broken up core - SA32197. Suchury breccia and MDKE prominent around fault zone especially within 1 m of the up hole contact. WRA SA22179 at 210.00 m 201.43 ANDESITE Mixed bag of exhalative chert, very fine TUFF/DACITE grained ash, possible SLS-ARG sediment SA32198 to SA32199. 352.35 TUFF minor component, sections of good ATUF «ATUF/DIUF» and STUF sections, entire interval exhibits good compositional layering, mm-scale, very distinct bedding, at 60° to CA, finely bedded scale, entire unit: fine grained, green grey to medium grey brown to dark grey, 1% MDKE, medium grained, non-magnetic, but mineralized. Distinct grey-brown colour overall dominantly Andesite tuff unit. 201.43-205.04: Dominantly STUF horizon, - 2-3% quartz laminations parallel to - 0.5% pyrite/pyrrhotite pods/ with cherty exhalative beds intercalated bedding foliation. stringers, mm-size. with ATUE, and minor fine ash layers, mm-cm scale. <1% quartz-calcite fracture-· Trace sphalerite, galena. fillings. 205.04-218.65: fairly uniform brownish grey 10 cm quartz stringer with smaller - 5% pyrite, pyrrhotite pods, · SA32200. ATUF section with minor mm size cherty 2-4 cm stringers at 60° to CA, 0.2% epidote seams/blebs, mm-size. laminations, very fine grained material 207,00-207.70 m weakly carbonated (1% quartz-calcite fracture possible ash or even argittaceous sediment? fillings) except between 211-212.70, moderately carbonated quartzcalcite- epidote fracture fillings up to 5%. 218.65-244.00: Fairly unitorm grey green 30% quartz i calcite laminations · SA32301 to SA32309 - Zones of quartz impregnation tend

HOLE NUMBER: MU TH

FALCONBRIDGE LID

LE NUMBER: MIDP		DRILL HOLE RECORD		DATE: 6-March:1991
ROM ROCK TO TYPE	TEXTURE AND STRUCTURE	ANGLE TO CA ALTERATION	MINERALIZATION	REMARKS
 	ATUF section with zones of intense quartz impregnations approximately 25-30% of interval. These zones exhibit cmisize quartz laminations intercalcated with mmisize ATUF beds, minor cherty exhalative material.	stringers in zones of 50-100 cm opaque brown accessory, minearl, very hard, not likely tourmaline, possible rutite?	to have increased mineralization, up to 5% pyrite/minor pyrrhotite stringers and discontinuous seams, trace sphalerite as stringers, in a quantz calcite fracture fillings also trace chalcopyrite and galena.	- WRA SA22180 at 239.60 m.
	244.00-270.00: Slight increase in the amount of intercalated exhalative chert. Quartz stringer/laminations are still prominent, mm-cm size, bedding at 50° to CA.	244-255: 5-7% quartz stringers wit sericitic selvages/inclusions, concordant and discordant stringe		- SA32310 to SA32315.
	250.16-250.50: Mineralized MUKE, contacts at 50° to 60° to CA.	. 1% quantz calcite stringer at 30° to CA.	- 1% disseminated pyrite/pyrrhotite.	
:	1270.00-280.44 MSTUF whine grained, light to medium grey cherty exhalative with minor intercalated ATUF, mm-scale fine ash tuff, slump structure at 274.50, cm-scale.	 1% calcite i quartz fracture fillings, silicified? weakly sericite alteration. 	 0.2% pyrite/pyrrhotite stringers, 0.2%-0.5% sphalerite stringers/ laminations <mm-size, and="" as<br="">disseminated fracture fillings.</mm-size,> 	- SA32316-SA32317. - WRA SA22181 at 270.00 m.
	•		277.50-278.25: Sphalerite stringers, mm-size, 3-4% over interval some smm-size parallel to bedding, some discordant and associated with calcite fracture fillings	- SA32318 to SA32321.
	[280.45-297.00] MAFLWWFine grained, medium green, relatively massive although there appears to be ghost bedding, suggesting that the AFLW was altered? by the overlying sphalerite stringer zone in STUF.		 	- WRA SA22182 at 280.50 m. - WRA SA22183 at 285.30 m.
:	297.00-357.00: Returns to the mixed bag of ATUF, minor STUF, intercalated with fine ash beds, numerous mm.cm size quartz laminations impregnated sections STUF; fine grained cherty exhalative layers intercalated with fine grained, finely laminated, mm-scale ash laminations. 1%, fine grained to medium grained, GDKE, normagnetic, 10-30 cm.	- 2-3% cm-size quartz stringers, discordant to bedding/foliation.	· :	- WRA SA22184 at 310.00 m.
	318.00-326.00 ★STUF>prominent cherty exhalative (STUF) beds, cm-scale, Z-shaped folds, cm-scale with parasitic microfolds, mm-scale,	- 15% discordant quartz veins with chlorite, minor sericite inclusions, 5-20 cm, 1%	- 0.5% pyrite/pyrhotite stringers with trace chalcopyrite.	- SA32322-SA32327.

FROM ANGLE POCK. TEXTURE AND STRUCTURE TO CA ALTERATION MINERALIZATION REMARKS ΤO TYPE at 319.45 m, bedding appears slightly more shallow at 30-40% to CA, some chert beds are quartz-calcite fracutre fillings, mm·size. discontinuous tenses, almost brecciated tocally. 341.40-345.40: Epidote auteration section, - SA32328. - 0.3% disseminated/stringer Quartz-epidote stringers/bands bedding/foliation at 45:50° to CA. mm-cm size, approximately pyrite/pyrrhotite. - WRA SA22185 at 341.50 m 20% of interval. - SA32329 to SA32332. 4345.96-352.35 ₩STUF»Dominantly primary STUF 5% discordant quartz veins Concordant and discordant section attenuated and folded chert exhalative 7 to 20 cm, chlorite alteration pyrite/minor pyrrhotite stringers, mm-size, trace beds, mm-cm size intercalated, fine ash, in the selvages, cm-scale. ATUF, discordant quartz veining, bedding chalcopyrite. at 45-50° to CA. 352.35 ANDESITE - Quartz-epidote-calcite fracture - 0.2 to 0.3% pyrite/pyrrhotite pods - WRA SA22186 at 362.00 m. - Fine grained, medium green, laminated, mm-cm controlled alteration 2% quartzscale, Sudbury breccia, mafic dike prominant at TO | BASALT stringers. 370.64 MATBEN contact with ATUF, contact maybe a fault? stringers, 5 cm. at 353.00m? dike zone prominant, 352.55 to 361.50 bedding at 35-40° to CA, bedding is undulating and microfaucted with displacement mm to cm scale. 370.64 END OF HOLE

⁺0 370.64

HOLE NUMBER: MU 08

FALCONBRIDGE LTD

DRILL HOLE RECORD

PLOTTING COORDS GRID: ALTERNATE COORDS GRID: COLLAR DIP: -75° 01 01 NORTH: 311.00N NORTH: 0+ 0 LENGTH OF THE HOLE: 520.13m EAST: 45.00E EAST: 0+ 0 START DEPTH: 0.00m FINAL DEPTH: 520.13m 409.00 ELEV: ELEV: 0.00

COLLAR ASTRONOMIC AZIMUTH: 20° 0' 0" GRID ASTRONOMIC AZIMUTH: 150° 0° 0"

COLLAR SURVEY: NO PULSE EM SURVEY: YES

DATE STARTED: February 15, 1991 DATE COMPLETED February 20, 1991 CONTRACTOR: Dominik MULTISHOT SURVEY: NO PLUGGED: YES CASING: 2-88 m of BW Casing. DATE LOGGED: February 23, 1991 RQD_LOG: NO HOLE SIZE: 80 CORE STORAGE: Chelmsford

UTM COORD.:

COMMENTS : To test off-hole in MU-91-08 and to test STUF horizon. WEDGES AT:

DIRECTIONAL DATA:

HOLE NUMBER: MU-10

PROJECT NAME: BENNY

CLAIM NUMBER: 104/65 24 LOCATION: Munster

PROJECT NUMBER: 6232

Depth (m)	Astronomic Azimuth	Dip degrees	Type of Test	FLAG	Comments	epth (m)	Astronomic Azimuth	Dip degrees	Type of Test	FLAG	Comments
30.48	22°30'	.75° 0'	SING.SHOT	OK		 -	-		-	-	
121.92	11°30'	-70° 0'	SING.SHOT	OK		-				•	
182.88	18°30'	-70° 0'	SING.SHOT	OK		-		-		•	
243.84	11° 0'	-69° 0'	SING.SHOT					•		•	
304.80	8° 0'	-68° 0'	SING, SHOT	OK		-	•			-	
365.76	102 04	-66° 0'	SING.SHO!					-	-	-	
518.16	7° 0'	-61° 01	SING.SHOT	OK			•	-		-	
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DATE: 20-March 1991

METRIC UNITS: X

IMPERIAL UNITS:

FACCONBRIDGE LID ORTEL HOLE RECORD

HOLE NUMBER: Mc 10

DATE: 20-March-1991

FROM TO	ROCK TYPE	TEXTURE AND STRUCTURE	ANGLE TO CA	ALTERATION	MINERALIZATION	REMARKS
0.00 TO 2.88	CAS «+ob}»	· 2.88 m. of BW casing.				
2.88 70 458.10		Fine grained to medium light mottled grey; well to moderately developed bedding CA 50°, mm to cm scale. 5-10 cm silicified units within ATUF. 1-2/3 m mafic dykes 5-10 cm wide CA 50°, 1-2/5m		- 1-2/2 m quartz, carbonate fracture fill CA 40-60°, 5-8 mm wide.	 trace to 1% pyrite pyrrhotite along foliation. 	
		- ∤7.95-11.71∤ possible STUF unit small silica nich unit 3-5 cm wide, weil foliated, CA 50°.			- 1-2% pyrrhotite and pyrite.	
					- 8.00-9.50: trace to 1% pyrite along fractures.	
					- 9.50-11.00: 1-2% finely disseminated pyrite along foliation.	
					- 11.00-12.50: trace to 1% pyrite.	
		- 14.02-35.36; the unit becomes more silicified with 1-2 cm wide beds of quartz rich material. Almost cherty with small quartz eyes, 5-10 cm wide coarse grained mafic dykes CA 30-40°. Almost DTUF looking. Bedding and foliation CA 50°, small 10-15 cm creamy white silicified beds with 1-2% chlorite blebs.			- trace to 1% pyrite disseminated along fractures.	
	 - 				- 35.50-47.50: trace to 2% finely disseminated pyrhotite and pyrite with trace sphalerite along fractures and disseminated along foliation.	
				 strong epidote alteration with minor carbonate fractures. 		
	•	1		- 44.70-47.00: altereted ATUF due to Sudbury breccia.	:	
				- 50.60-78.54: Light green epidote alteration; mostly hair line fractures up to 5%.		
		- {57.10-57.25} «[FAI CA 45° ↔ light to medium				

ALTERATION.

ANGLE

TO CA

TEXTURE AND STRUCTURE

greenish grey chlorite rich clay gouge with

HOLE NUMBER: MU-10

: DITM

ROCK

TYPE

40% peoples CA 45%. \$58.20-58.28 « FAI) broken and blocky core with 1 cm ciay. Fault gouge with 80% pebbles - 59.15-59.51; light grey to clear white quartz - Light green epidote alteration. vein CA 45-55°. - 60.85-61.54: sludge, greenish-grey mud or clay gouge from up the hole. 65.84-68.87: 3-4/m white carbonate fracture fill and veins 5-20 cm wide CA 40-50°. - 78.03-81.08: 10-20% Light green epidote alteration along foliation. - 483.23-88.60 «BFW» medium to dark grey, no - 1-2% carbonate, quartz fracture fill - trace to 1% pyrrhotite and pyrite. foliation or flow banding evident. Weak to 1-8 mm wide CA varies. moderately magnetic contact sharp with CA 40-60° Possible gabbro dyke, no evidende of amygdules. 96.50-107.00: 2-5% pyrrhotite and pyrite disseminated along foliation with trace chalcopyrite and sphalerite. 105.46-120.70: 5-10% carbonate and · trace pyrite. light green epidote fracture fill and hair like fractures. 125.00-132.40: 5% quartz, carbonate feldspar rich fracture fill and blebs 5-10 cm wide CA 30-60°.

MINERALIZATION

133.95-134.35: 1-2% pyrrhotite blebs within quartz vein upper and lower contact sheared and broken with minor

gouge.

139.90-142.04: 1-2/m light yellow

1-2/4 m 5-6 mm wide quartz fracture

fill. CA

DATE: 20-March 1991

REMARKS

HOLE NUMBER: MU-10 DATE: 20-March-1991 ANGLE ! LADE TEXTURE AND STRUCTURE TO CA ALTERATION MINERALIZATION REMARKS to white fracture fill 1-2 cm wide CA 30-60°. - 142.29-142.42: broken and blocky core with minor clay gouge, possible fault. - |145,26-153.31| «QUARTZ VEIN» creamy white fine - - minor chlorite atteration. - trace pyrite cubes, trace grained quartz vein with 5% mafic rags and chalcopyrite blebs. blebs; with 1-2% chlorite blebs. Upper contact 2-3 mafic fragment brecciated by quartz vein. 30-40 cm of broken and blocky core CA 10-15° due to low angle joint. - 148.15-149.65: trace pyrite. - 149.65-151.15: 1% pyrite, cubic. - 151.15-152.65: trace to 1% pyrite. - 152.65-153.15: 1-2% pyrite blebs. - 154.50-154.70: 1% chalcopyrite blebs along a fracture CA 40°, 1-2 mm wide. - 155.00-160.00: strongly foliated, and slightly silicified ATUF. - 160.40-161.10: trace to 1% pyrite and trace sphalerite. - 160.60-160.90: quartz vein, cross-cutting foliation CA 60°. - 165.00-166.50: trace to 1% pyrite and to sphalerite. - 166.50-167.60: trace to 1% pyrite pyrrhotite along foliation, 1-2% pyrrhotite and pyrite. - 167,60-168,40: clear white quartz vein with 2% epidote alteration with 1% mafic rags. 168.40-169.90: 2-3% pyrrhotite and pyrite along foliation. Trace sphalerite. - 169.90-171.40: 1-2% pyrite along

HOLE NUMBER: MU-10

foliation with trace sphalerite.

HOLE	MUMBER	MI.	111

HOLE NUMBER: MU 10

MC 9	ROCK		ANGLE			
* 0	TYPE -	TEXTURE AND STRUCTURE	10 CA	ALTERATION	MINERALIZATION	REMARKS
					- 171.40-171.15: 2-3% pyrite along foliation. Trace sphalerite.	
:					- 171.15-172.40: 2-3% sphalerite finely disseminated along fracture.	
		<i>(</i>			- 172.40-173.80: 2-4% pyrite, pyrrhotite along foliation with trace sphalerite.	
					- 173,80-175,40: trace sphalerite with trace pyrite along foliation.	
-					- 175.40-176.90: trace pyrite, sphalerite finely disseminated along fractures.	
		- 177.00-224.33: slightly alterated ATUF with well developed foliation and bedding mm to cm scale. 1-2/2 m quartz vein 5-10 cm wide CA 30-60°, small 5-10 cm wide zones of Sudbury breccia, which are poorly developed.		- 1-2/m carboante fracture fill 1-2 cm wide. Light green epidote alteration and fracture fill with 1-2% carbonate and feldspar rich fracture fill CA varies, 5-10 mm wide.	- trace to 2% pyrrhotite pyrite blebs along foliation.	
			i i		- 187.70-192.20: 1-3% pyrrhotite and pyrite with trace sphalerite along fractures.	
		- 205.00-205.40: possible cherty bed, light green, grey CA 10° with a minor zone of Sudbury breccia on upper contact.			- trace pyrrhotite, pyrite.	
		- {210.69-210.80} «(FAL)» broken and blocky corewith 1 cm wide clay and pebble gouge CA 50°.				
		 213.00-213.90: broken and blocky core due to jointing. Minor gouge and chlorite slips along joint faces possible shear zones. 				
		220.00-270.05 «ATUF-BTUF» medium to dank grey, fine grained, weakly to non magnetic, moderate to well bodded and foliated, mm to cm scale. Small 1-3 mm elongated quartz eyes only <1%. Small 1-10 cm wiste siliceous beds, 1-273 m white quartz vein, 5-10 cm wide. CA 40-50%. Small 5-10 cm zone Sudbury breddia		 light green epidote alteration with hair line fracture minor carbonate and quartz fracture fill, 1-8 mm wide CA varies. 	- trace to 1% pyrrhotite along fractures with trace pyrite.	

DATE: 20-March-1991

HOLE NUMBER: Mi. 1. DATE: 20-March 1991 POTE ANGLE: 10 TYPE TEXTURE AND STRUCTURE TO CA ALTERATION MINERALIZATION REMARKS contacts sharp CA 50 80°. Joints 1-2/2 m CA 40-60°. 273.00-280.50: 1-3% pyrite pyrrhotite blebs and fracture fill along foliation. · 280.50-280.80: 2-3% sphalerite as stringer 1-2% pyrite, pyrrhotite. 280.80-284.70: broken and blocky core minor - 10 feet of core lost. gouge along pieces . 10 feet of core lost. - 285.30-291.10: 2-3% pyrrhotite and - minor chlorite and carbonate alteration with weak sercite pyrite disseminations along fracture alteration. with trace sphalerite. - 296.00-296.40: white clear quartz vein with 1-2% chalcopyrite blebs throughout. - 297.10-299.10: light green epidote alteration along foliation. - 299.03-299.20: broken and blocky core with quartz carbonate pebbles. Chlorite and carbonate coating along pieces. 303,60-304,30: trace pyrite. sphalerite specks within quartz vein along foliation. 306.63-321.20: moderated to well developed · weak to moderate carbonate and - trace to 1% pyrrhotite along ATUF with 10-20 cm wide siliceous zones. epidote alteration. foliation and bedding planes. Moderate to well developed bedding, mm scale. - 325.00-328.00: trace to 1% pyrite and chalcopyrite. - 330.70-330.80: broken and blocky core with - weak to moderate chlorite alteration. minor gouge 0.5 cm wide, CA 45°. - 337.13-343.00: light green epidote alteration along fracture 5-10 cm wide. Weak quartz carbonate alteration and fracture fill.

HOLE NUMBER: 48: 10 DATE: 20-March-1991 RGCFANGLE * y F-F TEXTURE AND STRUCTURE TO CA ALTERATION. MINERALIZATION REMARKS 10 - 344.90-345.25: 1-2% sphalerite and pyrrhotite alonf fracture fill CA 10° 1-3 mm wide. 349.33-376.78: moderate to well developed moderate to well developed quartz ATUF to BTUF with well developed layering carbonate alteration as fracture CA 40°, mm to cm scale. fill 5-10 mm wide, CA 40°. 393.00-433.10: light greyish green buff color weak sercite alteration with chlorite fracture fill and blebs minor quartz carbonate fracture fill 5-15 mm wide. Small siliceous beds interbedded with the breccia looking, altered ATUF, - |395.64-395.93| *|FAI|» broken and blocky core with 4 cm wide peoble chlorite rich clay gouge, - 395.93-396,50: moderate to strong chlorite alteration with a strong epidote alteration, and a weak hematite alteration. - 397.03-398.00: Light buffed light grey ATUF - small mild fractures of chlorite - trace chalcopyrite blebs 1-2 mm with with a well defined foliation. CA 40°. brecciating the ATUF. trace pyrrhotite and pyrite. - 398.13-403.50: similar to above 397 m. 404,50-412,80: small 1-3 mm fracture of quartz carbonate and hair line fractures along foliation. CA 40° weak chlorite alteration. 404.00-419.49: well developed ATUF with 10-40 cm wide sitizeous beas and 1-2/m 10-60 cm mafic dykes, sharp contact CA 20-50°. 1-2/4 m granite dykes. - 422,00-423,20; light grey to white bleached color ATUF. Siliceous field with 2:3% chlorite fracture fill. 424.00-431.68: 2-3% pyrchotite : - 2-3% pyrrhotite blebs and rags.

HOLE	NUMBER:	MILE 1 197

	DOK YPE	TEXTURE AND STRUCTURE	ANGLE TO CA ALTERATION	MINERALIZATION	REMARKS
			blebs and fracture fill disseminated throughout. Light grey buff color nodular tuff, bedding and foliation weak. 3 5% chlorite alteration along fractures. Minor carbonate alteration silicified along bedding planes.		
			- along 10 m angle joint chlorite slips with minor gouge minor carboante fracture fill.		
		- 432.57-439.50: very siliceous beds almost cherty, light grey quartz vein, 434.45-435-30 with the ATUF/BTUF silicified around it.	 minor chlorite alteration along fracture fill. 	- trace -1% pyrrhotite and pyrite with trace chalcopyrite flakes <1-5 mm.	
		- 440.83-470.68: BTUF/ATUF, the foliation and bedding planes poorly developed and become more matic rich. 1-2/m quartz veins, 5-20 mm wide.	 weak carbonate chlorite alteration weak epidote fracture fill and hair like fractures. 	- trace to 1% pyrrhotite and pyrite blebs and specks.	
:	,			- 441.00-451.50: trace to 2% pyrchotite and pyrite blebs and rags along bedding and fracture fill with trace sphalerite, chalcopyrite.	
:		443.53-453.58 « FAI » broken and blocky core with chlorite slips along pieces 0.5-1 cm wide chlorite clay gouge CA 60° with minor quartz, carbonate brecciation.			
			- 456.03-462.00: weak to moderate quartz, carbonate alteration 1-3 cm wide stringer and micro fracture fill.	- trace pyrite.	
!				457.50-465.00: 1-3% pyrite and pyrrhotite disseminated throughout within epidote breccia.	

DATE: 20-March-1991

HOLE NUMBER: MU-10	
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TO TYPE	TEXTURE AND STRUCTURE	ANGLE TO CA		MINERALIZATION	REMARKS
8.10 BTUF 70 02.71	medium to dark grey, fine grained with moderate to poorly developed bedding, mm to cm scale. The unit is becoming more altered due to granite Upper contact gradiational over 10 m.	1	 moderate to strong epidote alteration fracture fill and hairline fractures. Weak chlorite alteration. 	- 2-3% pyrrhotite disseminated throughout.	
			- 461.00-462.00: strong carbonate, epidote alteration brecolating BTUF.	- finely disseminated pyrrhotite and pyrite.	
			- 462.30-462.90: moderate to strong chlorite, carbonate alteration.		
			- 465.30-465.50: moderate chlorite with weak carbonate alteration.	- 3-4% pyrrhotite, trace sphalerite and pyrite.	
	4470.10-472.50 #BIF* well developed BIF with a general foliation CA 40° sharp upper and lower contact CA 30°. 20-30% magnetic. Quartz vein 471.30-471.90.		- weak epidote alteration.	- 5-8% pyrrhotite with trace -1% chalcopyrite.	
	473.42-474.40: light green epidote, breccia at CA 10°, 3-4 cm wide.		- strong epidote, carbonate alteration.	- trace to 1% pyrite and pyrrhotite.	
			- 474.00485.80: light green to grey epidote, quartz, weak carbonate alteration along foliation. Sharp lower contact CA 60°.	 trace to 0.5% sphalerite within 1 cm at base altered zones. 	
'	- 485.80-491.00: more massive cone with a weak foliation.	; ;	- weak epidote and carbonate alteration.		
	 492.68-502.71: moderate to strongly baked and silicified BTUF. 		! : - Light green epidote and carbonate : alteration.	- trace pyrite and pyrrhotite.	
	- \$501.94-502.46} «{FAI}» broken and blocky core 10-30 cm chlorite clay gouge CA 50-80°. Lower contact strong epidote alteration.				
2.71 GR ro 0.13	 well developed feldspan and quartz rich, coarse grained weak granite with 30% mafic rich pyrite matrix. Sharp upper contact CA 50°. 		· light green epidote alteration.		
	515.10:515.15: fine grained black siliceous, baked up basaltic füFF unit. Sharp contact.				

DATE: 20-March-1991

FALCONBETOGE ETO

HOLE NUMBER: MIL 105			DRILL HOLE RECORD		DATE: 20-March 1991
FROM ROCK FO YPE	TEXTURE AND STRUCTURE	ANGLE TO CA	ALTERATION	MINERALIZATION	REMARKS
520.13 END OF HOLE					
520.13					

HOLE NUMBER: MU 10



900

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Report of Work

Name and Address of Recorded Holder FALCONBRIDGE EXPLORATION LIMITED, P.O. Box 40

FALCONBRIDGE.

ONTARIO

POM 1SO

Prospector's Licence No.

A 2167

elephone No 693-2761

Mining Division	Mining Clalm		Work		Mining Claim	Work	Mining Claim		Work
SUDBURY	Prefix	Number	Days Cr.	Prefix	Number	Days Cr.	Prefix	Number	Days Cr.
Township or Area	S	1046856	80	S	1046894 1	80	S	1094650	95
Total Assessment Credits Claimed	S	1046862	80	S	1046895	80	S	1094651	80
1556430	S	1046863 🗸	80	S	1046896 /	80	S	1094652	80
Type of Work Performed (Check one only)	S	1046864	80	S	1046897 V	80	S	1094653	80
Manual Work	S	1046865	80	S	1046904	80	S	1094654	80
Shaft Sinking Dretting or other Lateral Work	S	1046889	80	S	1046905	80	S	1094655	80
Mechanical equipment	S	1046890	80	S	1046906	80	S	1094656	80
Power Stripping other than Manual (maximum credit allowed 100 days	8	1046891	63	S	1094647	26.04	S	1094657	80
per claim) N Diamond or other Core dulling	\mid S	1046892	80	S	1094648	26.03	S	1094658	80
Core Specimens	S	1046893	80	S	1094649	120			

Dates when work was performed From: Sept 1990 otal No. of Day 15564.30 otal No. of Days Claimed 15564.30 Total No of Days to be Claimed at a Future Date 10. March 1991

All the work was performed on Mining Claim(s) Mining Chim Indicate no. of days performed on each claim S 046863 (See note No. 1 on reverse side) 94 of Days Mining Claim No of Days Moning Claim He of Days Mining Claim No of Days Mining Claim No. of Days 1076.05 S1046896 635.99 S1046897 1181.99 1148.29\$1046894 No. of Days Mining Claim No of Days

Required Information egi type of equipment, Names, Addresses, etc. (See Table on reverse side) If space below is insufficient, attach schedules with required information and location sketches

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Diamond Drilling - Ins - 3

Forage Dominik (1981) Inc. 1080, rue de l'Echo C.P. 247 Val D'Or, Québec J9P 4P3

Téléphone (819) 824-6839

Fax

(819) 824-4217



Certification of Beneficial Interest * (See Note No. 2 on reverse side)

I hereby certify that, at the time the work was performed, the claims covered in this reploit of work were recorded in the current recorded holder's name or held under a beneficial interest. Recprided Holder or Agent (Signature) April 1990

by the current recorded holder

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 Address of Person Certifying

Gregg Snyder, Falconbridge Exploration Limited, P.O. Box 40; Falconbridge

Ontario POM 1SO

Date Telephone No. As above

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Work Assignments

ONTARIO GEOLOGICAL SURVEY GIS - ASSESSMENT FILES

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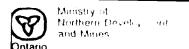
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Name and Address of Recorded Holder

W 9170. 00057

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For each type of work performed, a separate Report of Work should be completed.

For Geo-technical work, use form no. 1362 "Report of Work (Geological, Geophysical, Geochemical") and form no. 878 for Expenditures.

Refer to Sections 76 and 77, the Mining Act for assessment work requirements and the reverse side of this form for table of information.

Mining Act	Report of Work

Prospector's Licence	No.
Telephone No.	4 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -

Mining Division		Mining Claim		Mining Claim		Work	N	fining Claim	Work
	Prefix	Number	Days Cr.	Prefix	Number	Days Cr.	Prefix	Number	Days Cr
Township or Area MUNSTER	S	1046937	80	S	1046857	80	S	1046875	80
Total Assessment Credits Claimed	S	1046938	80	S	1046858	80	S	1046876	80
	S	1046940	80	S	1046859	80	S	1046916	80
Type of Work Performed (Check one only)	S	1046941	80	S	1046860	80	S	1046917	80
Manual Work	$\frac{1}{8}$	1046942	72.23	S	1046861	80	S	1046918	80
Shaft Sinking Dolling or other Lateral Work	S	1046943	80	S	1046872	80	S	1046919	80
CiMechanical equipment			i	S	1046873	80	S	1046920	80
Power Stripping other than Manual (maximum credit allowed - 100 days per claim) Diamond or other Core drilling				S	1046874	80	S	1046921	80

Dates when work	was performed	N. S. C.	Total No. of D	ays Performed	Total No	of Days Claimed	Total No Future Da	of Days to be Cla	med at a
From:	i Io		ļ						
	and the second of the second o	Micing Claire	N. J.O.	Monng Claire		Mining Claim	No. of Days	Mining Claim	No of Days
Indicate no. of	as performed on Mining Claims days performed on each claim b. 1 on reverse side)	\$1046872	2 1522.0	1S1046873	1 '	S1046874	1		
Mining Claim	No. of Days Mining Comic to or	See Mining Claim	No of Days	Miros q C aim	्या अस्तिहरी	Mining Claim	No of Days	Mining Claim	No of Days
				l					

Required Information eg. type of equipment, Names, Addresses, etc. (See Table on reverse side) If space below is insufficient, attach schedules with required information and location sketches

Certification of Beneficial Interest *	(See Note	No. 2 on reverse side)

I hereby certify that, at the time the work was performed, the claims covered in this report of work were recorded in the current recorded holder's name or held under a beneficial interiest by the current recorded holder. Recorded Holder or Agent (Signature)

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 Address of Person Certifying

Telephone No.

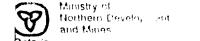
Certified By (Signature)

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Work Assignments

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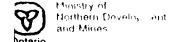
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- For each type of work performed, a separate Report of Work should be completed.
- For Geo-technical work, use form no. 1362 "Report of Work (Geological, Geophysical, Geochemical") and form no. 878 for Expenditures.

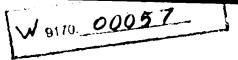
Expenditures.
Refer to Sections 76 and 77, the Mining Act for assessment world
requirements and the reverse side of this form for table of Information

Mining	Act

Report of Work

Name and Address of Recorded Holder							ephone No	Licence No.	
Summary of Distribution of Credits	and Wo	ork Performan	ce					<u></u>	
Mining Division		Mining Claim	Work	·	Mining Claim	Work	}	Aining Claim	Work
Township or Area	Prefix S	Number 1046886	Days Cr.	Prefix S	Number 1046907	Days Cr.	Prefix S	Number 1042317	Days Cr.
MONCRIEFF	ł ·			} · · · · ·	1046908	80	S S	1042317	85
Total Assessment Credits Claimed	S	1046887	80	S			· · · · · · · · · · · · · · · · · · ·	·	
Type of Work Performed	S	1046888	80	S	1046909	80	S	1042319	85
(Check one only)	S	1046898	80	S	1046910	80	S	1042320	85
Manual Work Shaft Sinking Drifting or often	S	1046899	80	S	1046911	80	S	1042321	85
L_ILateral Work	S	1046900	80	S	1046912	80	S	1042322	85
Mechanical equipment	S	1046901	80	S	1046913	80	S	1042323	85
Power Stripping other than Manual (maximum credit allowed 100 days per claim)	S	1046902	80	S	1013391	85	S	1042324	85
Diamond or other Core drilling	S	1046903	80	S	1013392	85	S	1042325	85
Core Specimens					<u> </u>		<u> </u>		
Dates when work was performed From: To:			Total No. of Day	s Pedami	ed Total No. of	Days Claimed	Total No Future D	of Days to be Cl ate	aimed at a
All the work was performed on Minin	q Claim(s) Mersia Chia	No. of Days N	tiring Canth	tio of Oays Mi	ning Ctairn	No of Day	s Mining Claim	No of Days
Indicate no. of days performed on ea * (See note No. 1 on reverse side)	ch claim	S1046886	i .		' '				
Mining Claim No. of Days Minera Claim	the cro	ays Mining Claim	ันระสะติลังธ์โร	lining Claim	tio of Days Mo	ning Claim	No of Day	s Mining Claim	No of Days
Certification of Beneficial Interest								A (6)	
I hereby certify that, at the time the work of work were recorded in the current record by the current recorded holder.	was perfor ed holder s	med, the claims of name or held unde	overed in this rep ir a beneficial inter	port Date		Heco	noed Hold	er or Agent (Sign	iatur e)
Certification Verifying Report of W	ork/			11					
I hereby certify that I have a personal or witnessed same during and/or after Name and Address of Person Certifying	al and inti er its com	mate knowledge pletion and the	of the facts s annexed repor	et forth ir t is true	the Report of W	ork annexed	hereto, h	naving performe	d the work
		Telepi	hone No		Date		Centilled I	By (Signature)	6
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Work Assignments					fleceiv		DBU EI EI	ŸED	





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For Geo-technical work, use form no. 1362: "Report of Work (Geological, Geophysical, Geochemical") and form no. 878 for Expenditures.

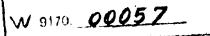
Refer to Sections 76 and 77, the Mining Act for assessment work requirements and the reverse side of this form for table of information.

Prospector's Licence No.

Mining	Act

Mining Act	Report of Work
Name and Address of Recorded Holder	

						Tet	ephone No.		
Summary of Distribution of Credits	and Wo	ork Performanc	:0						
Mining Division	·	Mining Claim	Wark		Mining Claim	Work	M	lining Claim	Work
	Prefix	Number	Days Cr.	Prefix	Number	Days Cr.	Prefix	Number	Days Cr.
Township or Area MONCRIEFF	S	1042363	85	S	1042387	85	S	1094639	80
Total Assessment Credits Claimed	S	1042367	85	S	1042388	85	S	1094640	80
Type of Work Performed	S	1042368	85	S	1046914	80	S	1094641	80
(Check one only)	S	1042369	85	S	1042946	85	S	1094642	80
Manual Work	S	1042370	85	S	1042952	85	S	1094643	80
: Shaft Sinking Drifting or other Lateral Work	s' S	1042370	35	S	1094635	80	S	1094644	80
^{f - t} Mechanica! equipri⊛nt	İ			1	Ì	80	1		80
Power Stripping other than Manual (maximum credit allowed - 100 days	S	1042372	85	S	1094636		S	1094645	
per claim)	S	1042377	85	S	1094637	. 80	S	1094646	1.80
Diamond or other Care drilling	\$	1042378	85	\$.	1094638	80			
() Come opproment	<u></u>			<u> </u>			<u> </u>		
Dates when work was performed From: To.			Cotal No. of Day	s Performe	d Total No	of Days Claimed	Total No. Future Da	of Days to be Cla	aimed at a
rioni.							<u> </u>		
All the work was performed on Mining Indicate no. of days performed on each	Claim(s)	Mering Claim	the of Days M	liping Claim	No of Days	Mining Claim	No of Days	Mining Claim	No of Days
* (See note No. 1 on reverse side) Mining Claim No. of Days Mining Claim		ays Maing Claim	No of Days M	Joung Claim	No of Days	Mining Claim	No of Days	Mining Claim	No of Days
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Certification of Beneficial Interest I hereby certify that, at the time the work of work were recorded in the current recorde by the current recorded holder. Certification Verifying Report of W	was perforr ed holder's r	ried, the claims co	vered in this rep	ort Date		Reco	orgina Holde	er or Agent (Sign	lejate)
I hereby certify that I have a persona or witnessed same during and/or afte Name and Address of Person Certifying					the Report of	Work annexed	hereto, h	aving performed	d the work
		Teleph	one No		Date		Certified B	y (Signature)	h
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Work Assignments			-		Rec	eived Stame	E C E	BURY NG DIV. EIVE [0



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For each type of work performed, a separate Report of Work should be completed.

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Mining Act	Report of Work	
Name and Address of Recorded Holder		Prospector's Licence No.
		Telephone No.
ummary of Distribution of Credits and Worl	k Performance	

	Telephone No.		
of Distribution of Credits and Work Performance sion	rk N	fining Claim	Work
Prefix Number Days Cr. Prefix Number Days		Number	Days Cr.
S 1042327 85 S 1042357 8	5 _ S	1046880	80 -
ssment Credits Claimed S 1042328 85 - S 1042400 86	S S	1046881	80
S 1042329 85 S 1042484 86	S	1046883	86 -
s 1042330 85 · S 1042485 86	S S	1046884	86 -
Work S 1042331 85 S 1042486 86	5 · S	1046922	80 -
inking Drifting or other S 1042332 86 S 1042487 86	5 - S	1046926	80 -
S 1042333 85 S 1042488 86	5, S	1046927	80
Stripping officer than Manual um credit allowed - 100 days S 1042334 85 S 1042504 86	s. S	1046928	80
) - S	1046929	80.
pecimens S 1042336 86 S 1046877 86	S	1046930	80 -
n work was performed Total No. of Days Performed Total No. of Days Clair	ned Total No.	of Days to be Cla	imed at a
To	Future Da		
ork was performed on Mining Claim(s) Mining Claim through Days Mining Claim through Days Mining Claim to of Days Mining Claim through Days Mining Claim through Days Mining Claim through Days Mining Claim through Days Mining Claim	No of Days	Mining Claim	No of Days
No of Days Mining Claim Per of Days Mining Claim No of Days Mining Claim No of Days Mining Claim	No of Days	Mining Claim	No of Days
d Information eg. type of equipment. Names, Addresses, etc. (See Table on reverse side) pelow is insufficient, attach schedules with required information and location sketches			

I hereby certify that, at the time the work was performed work were recorded in the current recorded holder, by the current recorded holder.			Recorded Holder or Agent (Signature)
Certification Verifying Report of Work			
I hereby certify that I have a personal and in or witnessed same during and/or after its col			of Work annexed hereto, having performed the work
Name and Address of Person Certifying			
	Telephone No	Date	Certified By (Signature)
For Office Use Only			

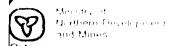
Work Assignments

Certification of Beneficial Interest * (See Note No. 2 on reverse side)

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Mining Act

Report of Work

Name and Address of Recorded Hordon	Prospector's Licence No
	Telephone No
Summary of Distribution of Credits and Work Performance	

Maring Chairman	Mariting 17 Auto	W/rick		Mason Clain	-Vork	N.	Mining Claim	Work
	 Hymbon	(Hayrotta	Frefix	*nortestez	Days Cr	Prefix	Number	Days Cr
TOMOREN STATE	 1042326	35	5	1042344	35 -	S	1042353	85
to eq. (Contract of the Contract of	1042335	¹ 35	5	1042345	35	S	1042354	85
The Arms Comment	1042337	85	3	1042346	35	S	1042355	85
(Check one only)	1042335	85	;	1042347	35	8	1042356	85
P.C. The second second	1047379	44	::	104734-	-,	;	1042358	35
atti kara sa kara sa kara sa kara sa kara sa kara sa kara sa kara sa kara sa kara sa kara sa kara sa kara sa k Kara sa kara s	1-142340	35	3	1042349	35	S	1042359	35
More and property	1042341	135	8	1042350	35	Š	1042360	85
Follower Etripping offices than Marca a comprehensive that are post of the Fig. ().	1-42-342	85	13	1042351	. ₹5	S	1042361	35
Same and the second of the second	104 (34)	35		104.1352	35	-	1042362	85
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fedicate is: of days performed on each (Jame)	1		1	1
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Required Information egi type of equipment. Names, Addresses, etc. (See Table on reverse side). If solve below is insufficient, attach scheduler, who required information and location sketches.

Certification	of Ropoticial	Interact	* 1800	Lloto	Mo	2 00	1000100	cidal

Certification of Beneficial Interest * (See Note No. 2 on reverse side)		
I hereby certify that, at the time the work was performed, the staims occurred in this report	Date	Recorded Holder or Agent (Signature)
of work were recorded in the current recorded holder's name or held under a beneficial interest.		
by the current recorded holder		

Certification Verifying Report of Work

I hereby certify that I have a personal and intimate knowledge of the facts sel 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 Address of Person Certifying

·	Telephone No	Date	Certified By (Signature)
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