010

GEOCHEMISTRY REPORT

FALCONBRIDGE AND BREMNER CLAIMS

OBA, ONTARIO

PN 506 AND 507

I.R. Morrison
Falconbridge Limited
May 8, 1984

TABLE OF CONTENTS

1.0 SUMMARY

The Oba property is comprised of some 425 contiguous mining claims held by Falconbridge Limited. Included in the property is a block of 77 claims under option from Larry Gervais and 162 claims under option from Daryl Bremner, both of Timmins, Ontario. In 1983 Falconbridge Limited undertook a reconnaissance rock and humus geochemical survey over a portion of the property as part of a gold exploration program. Table I shows the claims covered by the reconnaissance geochemical survey. Anomalous results were obtained which qualify the Oba property and further work.

2.0 INTRODUCTION

The main objective of the Oba project was to examine the apparent stratabound nature of several gold occurrences (including the former Shenango Mines and the 'Taylor' Showings) and attempt to extend the mineralization by way of geological mapping, prospecting and systematic rock and humus sampling.

Field work was carried out by I.R. Morrison, C.S. Bruce, R.L. Kenny, H.F. Keats, ably assisted by C. Rennie. The program commenced May 26 and was completed August 13, 1983. Topographic control was provided by 1:15840 aerial photographs. Claim lines provided ground control.

3.0 LOCATION AND ACCESS

Oba, Ontario, is located approximately 110 km south of the town of Hearst, Ontario, at the junction of the Canadian National and Algoma Central Railways. Access to Oba is provided by paved Hwy 583 for 37 km south of Hearst followed by 72 km of all-weather private gravel road.

The property is located 6 km south of Oba in Hawkins and Walls Townships. An all-weather gravel road from Oba crosses the northwest corner and

the Oba River provides access to the southwest corner of the claim block. For purposes of this geochemical survey, a rail assisted camp was constructed on the Canadian National Railway right-of-way at the Pichogen River with additional helicopter assisted fly-camps on the Pichogen River 3.5 km northwest of the CNR crossing and on Culbert Lake.

4.0 GENERAL GEOLOGY (see Figure 1)

The Oba property is underlain primarily by three parallel east-west trending monoclinal sequences of predominantly mafic metavolcanics belonging to the "Kabinakagami Lake Greenstone Belt". Interstratified with the mafic volcanics are lesser narrow felsic tuffs, sills, and minor derived clastic sediments. The several gold showings on the property appear to be at least spatially related to a felsic/mafic metavolcanic contact along the southern margin of the middle volcanic belt (see Figure 1). The showings themselves are positioned within 100 meters of stratigraphy straddling this contact. The gold occurs with quartz veins and sulphide mineralized felsic tuffs.

Flanking the belts to the north and south are granite and granite gneiss complexes.

Several fresh, north-trending diabase dykes cut the older units on the property.

Regional metamorphism is of the amphibolite rank with hornblende and biotite defining a strong east west foliation. When in contact with flanking granitic complexes, mafic volcanics sometimes have been severely hornfelsed.

The Pichogen River crosses the eastern end of the property following a major offsetting northeasterly fault structure whereas the regional set of lineaments trend northwesterly.

5.0 TOPOGRAPHY AND SURFICIAL DEPOSITS

The predominant greenstone belts underlying the property weather as moderate ridges. Bedrock exposure along the ridges range from fair to good. Granitic rocks and gneisses adjacent to the greenstones weather low and are poorly exposed.

A thin veneer of sand and gravelly ground moraine covers much of the area.

Drainage is varied and strongly controlled by underlying bedrock structural features. Vegetation consists of black spruce, cedar, tamarack, alders, black ash, sphagnum and labrador tea in the low-lying, poorly-drained areas and jack pine, white spruce, poplar, moose maple, birch, balsam and sumac on the high ground. Humus development varies widely, ranging from negligible to very thin (less than 1cm.) on the high, rocky and sandy ridges to thick (greater than 15 cm.) in the low-lying areas. In the better drained areas, good humus accumulations may occur in local depressions in the till or bedrock surfaces.

6.0 SAMPLING

6.1 Humus

Humus sampling was carried out on a 400m by 100m sample interval with some 1273 samples collected.

In general, the developed humus layer occurs up to several centimeters below the uppermost soil. It is dark brown to black in colour and has a greasy, clay-like consistency with all original vegetation structures totally decomposed.

Sampling was facilitated by use of a hand trowel. Hand sorting of the humus sample eliminated any visible inorganic components as well

as fresh vegetation such as roots, leaves, etc. The average sample weight was about 100 grams.

All samples were partially dried prior to shipment.

6.2 Rock

Bedrock geochemical sampling of the volcanic lithologies was carried out where possible on a 400m by 100m sample interval. Care was taken in the field to remove weathered material resulting in a finished sample averaging 0.5 to 1.0 kg. Additional prospecting samples were taken where more detailed information was desired (ie. mineralized or alteration zones, quartz veins, old trenches, etc.).

In total, some 271 rock samples were collected.

7.0 ANALYSES

7.1 Humus

The humus samples were prepared and analysed for gold by neutron activation by X-Ray Assay Laboratories Ltd., Don Mills, Ontario.

Sample preparation basically consists of 50 to 100 grams of primary material being split in a representative way to yield an 8 gram sample which is pressed (1000 kg/sq. cm.) into a 40 mm diameter pellet. This pellet is then sent for neutron activation. Here, the pellet is placed in a reactor and irradiated for approximately 22 minutes. A statistical count representing the gold content is made using a germanium detector linked to a multi-channel computer system, the count being converted to actual gold concentration in parts per billion by comparison to a standard. The sensitivity and detection limit provided by this procedure is 1.0 ppb.

7.2 Rock

Most of the rock samples were analysed for gold using the fire

assay direct couple plasma method by X-Ray Assay Laboratories Ltd., Don Mills, Ontario.

The analytical procedure begins with grinding the 500 to 1000 gram sample to -200 mesh from which a representative 20 gram cut is made. This 20 gram sample is sent for fire assay which produces a fused bead. This bead is then dissolved in aqua regia and the solution is then subjected (along with a set of standard solutions of known concentrations) to direct couple plasma emission. The intensity of the resultant radiation is measured using a spectrometer and the concentration of gold in the sample solution can be determined by comparison with the standards. The sensitivity of this method is 1.0 ppb with a detection limit of 2.0 ppb Au.

8.0 RESULTS

8.1 Humus Geochemistry

Formal statistical procedures were not applied to the humus geochemical data. By inspection, however, several statements can be made.

1. Background gold concentration in the humus appears to range between less than 1 and 5 ppb with 5 ppb Au representing the threshold between background and weakly anomalous.

2. Threshold and weakly anomalous (5-9 ppb) values appear scattered across the property and may or may not be significant.

3. Moderate (10-20 ppb) and strongly (greater than 20 ppb) anomalous samples do tend to cluster. However single isolated anomalous samples do occur.

4. Humus samples from the main mineralized horizon area did not

show up as anomalous in gold.

Following are the areas of anomalous humus geochemistry (see map - back pocket).

Anomaly	Peak	Distribution
"A"	99 ppb	Highly anomalous single sample
"B"	24 ppb	Broad moderate anomaly
"C"	80 ppb	Strong linear anomaly
"D"	31 ppb	Moderately anomalous single sample
"E"	32 ppb	Broad? Moderate anomaly

The risk of contamination from cultural sources (eg. old workings) is believed to be nil.

8.2 Rock Geochemistry

Gold values obtained from the rock geochemical survey ranged from less than 2 ppb to 85 ppb. Inspection of the results indicate that values greater than 50 ppb are obviously highly anomalous. By excluding values greater than 50 ppb from statistical calculations, the sample population was found to have a mean of 2.4 and a standard deviation of 5 ppb. As the analytical detection limit is 2 ppb, all values less than 2 ppb were assigned a value of 1 ppb.

On this basis, the following definitions have been made:

Mean + 1 standard deviation = 8 ppb	Weakly anomalous
Mean + 2 standard deviations = 13 ppb	Moderately anomalous
Mean + 3 standard deviations = 18 ppb	Strongly anomalous
Mean + greater than 3 standard deviations	

The sixteen (16) anomalous samples are :

BS 4347	47 ppb	BS 4348	34 ppb	BS 4349	10 ppb
BS 4342	12 ppb	BS 4341	9 ppb	BS 4331	9 ppb

BS 4727	30 ppb	BS 4440	12 ppb	BS 4327	25 ppb
BS 4312	85 ppb	BS 4409	8 ppb	BS 4308	9 ppb
FS 4265	10 ppb	BS 4351	21 ppb	BS 4352	24 ppb
BS 4711	8 ppb				

Of the prospecting samples collected, the following returned anomalous gold:

4443	9900 ppb	4344	>10,000 ppb	4345	37 ppb
4346	>10,000 ppb				

The first eleven (11) rock samples as well as all of the anomalous prospecting samples were collected in the vicinity of the main horizon.

9.0 DISCUSSION

The rock geochemistry indicates that the anomalous gold horizon identified on the Gervais Option (the 'Main Horizon') continues to the east, extending along strike for the width of the property. Considering the wide line spacing and sample interval, these results are quite acceptable and warrant further definition.

It is significant that rock geochemical surveys performed in similar geological environments (ie. Madsen - Starratt Olsen Belt, Red Lake, Ontario,) produced results of this order in actual mine environments[1] (see Figure 2). In this and other mine situations, geochemical gold has been a reliable pathfinder to ore.

The humus geochemistry did not locate the mineralized horizon identified by the rock geochemistry. The nature of the overburden, drainage, vegetation etc. here may have precluded gold enrichment in the humus. In any case,

1 DUROCHER, M.E., 1983: The Nature of Hydrothermal Alteration Associated with the Madsen and Starratt Olsen Gold Deposits; P. 123-140 in the Geology of Gold in Ontario, Ont. Geol. Survey Misc. Paper 110, 278 p.

this should not detract from the quality of the rock geochem anomaly. On the other hand, the humus survey did reveal several areas of anomalous gold. However, to make a geological interpretation of these anomalies, considering the spacing and distribution of the samples, would be premature. It will probably suffice to say that by identifying these areas as being anomalous in gold, the humus geochemistry has done its job and the areas qualify for follow up work using more direct methods.

10.0 RECOMMENDATIONS

The humus and rock geochemistry has outlined broad areas which warrant a more detailed follow-up program. A 100 meter grid should be cut to cover the anomalous rock geochemistry horizon (ie. Shenango-Taylor Extension) as well as the anomalous humus areas.

Detailed rock sampling, prospecting and geological mapping along and between lines particularly in the felsic metavolcanics should be completed along the main horizon assisted by power stripping and trenching where significant gaps in bedrock exposure exist. A ground magnetometer survey would aid in structural interpretation.

In the anomalous humus areas, detailed mapping, rock sampling and prospecting along with a ground magnetometer survey would further qualify the anomalies. A VLF-EM survey with lines run both north-south and east-west is strongly recommended to help identify structures which may control mineralization and, hence, diamond drill targets. If results indicate a gold-sulphide affinity, an induced polarization (IP) survey should be considered. Structural information obtained from the mapping, magnetic and VLF-EM surveys will dictate the orientation of the IP survey.

Respectfully submitted.....

I.R. Morrison

STATEMENT OF QUALIFICATIONS

I, I.R. Morrison, of 167 Wilson Avenue, Timmins, Ontario, do hereby certify that I am a graduate of the University of Western Ontario with an Honours Degree in Geology, 1977. I have been practising my profession in Canada since 1974.

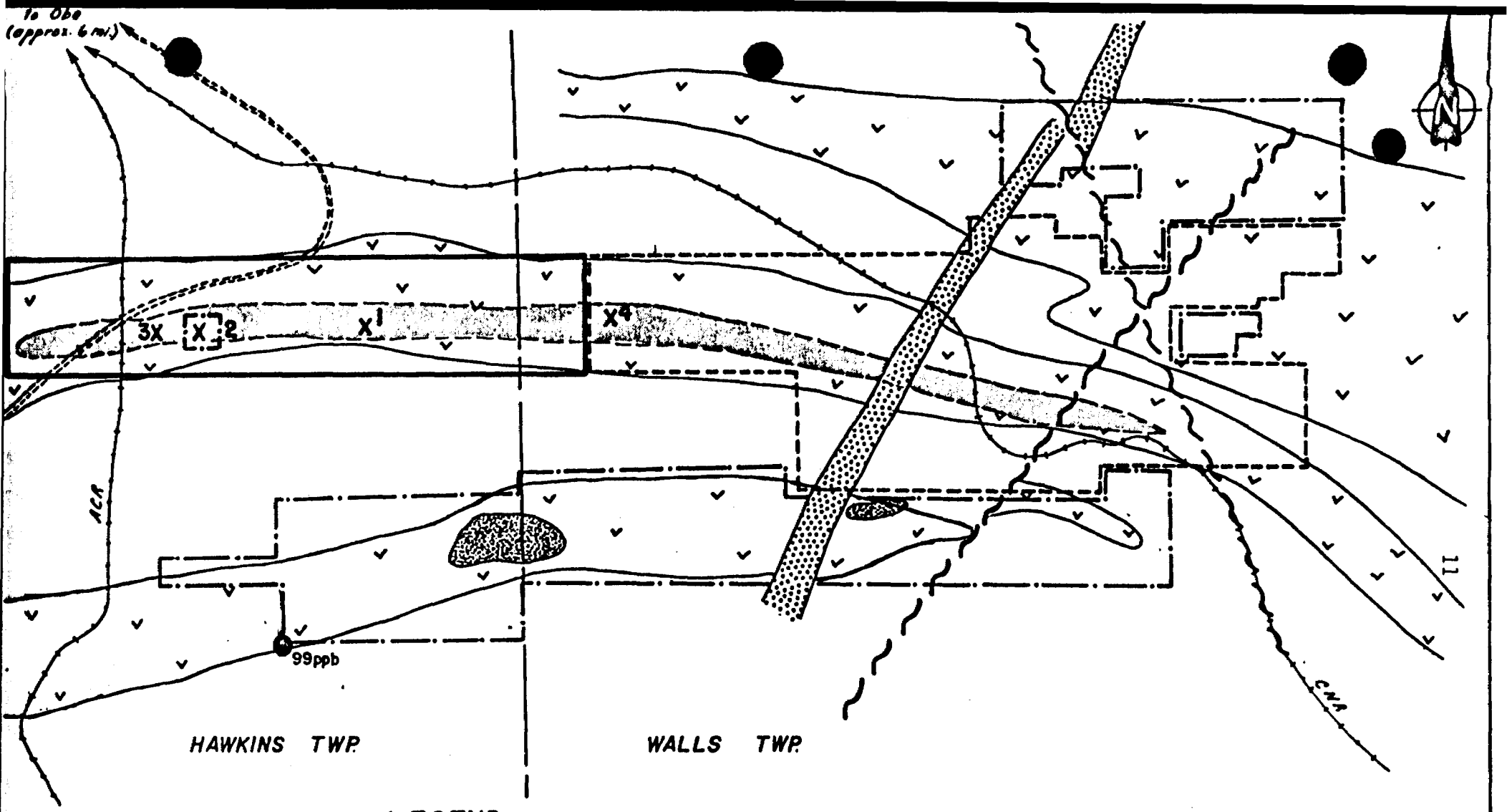
I further certify that I have no direct interest in this claim group and the accompanying report is based on the interpretation obtained during the geochemical survey of the property.

I.R. Morrison

TABLE I

Claims Covered by the Reconnaissance Geochemical Survey

	Claims	Recording Date
Bremner Option:	686901-686942 incl.	March 29, 1983
	700124-700155 incl.	March 29, 1983
	700455-700484 incl.	April 5, 1983
	700497-700499 incl.	April 5, 1983
	700485-700496 incl.	April 11, 1983
	700500-700504 incl.	April 11, 1983
	700405-700434 incl.	April 12, 1983
	700437-700444 incl.	April 12, 1983
Falconbridge:	758693	April 5, 1983
	658006-658009 incl.	April 25, 1983
	597999, 598000	April 25, 1983
	658101-658143 incl.	April 25, 1983
	758681-758692 incl.	April 25, 1983
	758694-758703 incl.	April 25, 1983
	761001-761020 incl.	April 25, 1983
	761041-761056 incl.	April 25, 1983
	764301-764315 incl.	April 25, 1983
	764317-764352 incl.	April 25, 1983
	764371-764386 incl.	April 25, 1983
	764388-764390 incl.	April 25, 1983
	764353-764360 incl.	May 26, 1983



LEGEND

- F.L. Oba Claims
- Bremner Option
- L. Gervais
- Railway
- Roads
- Volcanics
- Diabase

Gold Showings:
1. Taylor showing
2. Shenango # 1
3. Shenango # 2
4. Culbert - Dubroy

- Major Fault
- Rock and Humus Anomaly 5-230 ppb Au
- Humus Anomaly (Au)
- Humus Anomaly (80,29,25 ppb Au)

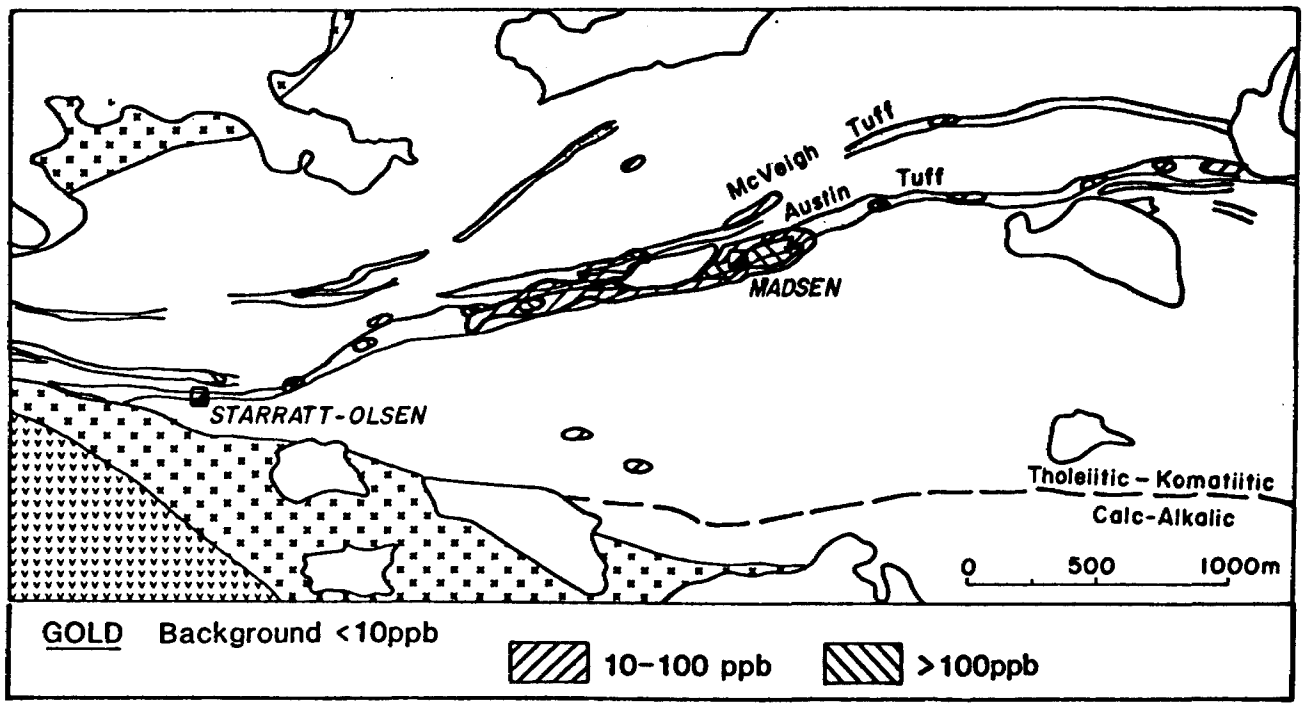
FIGURE 1

0 1 mile 2 miles

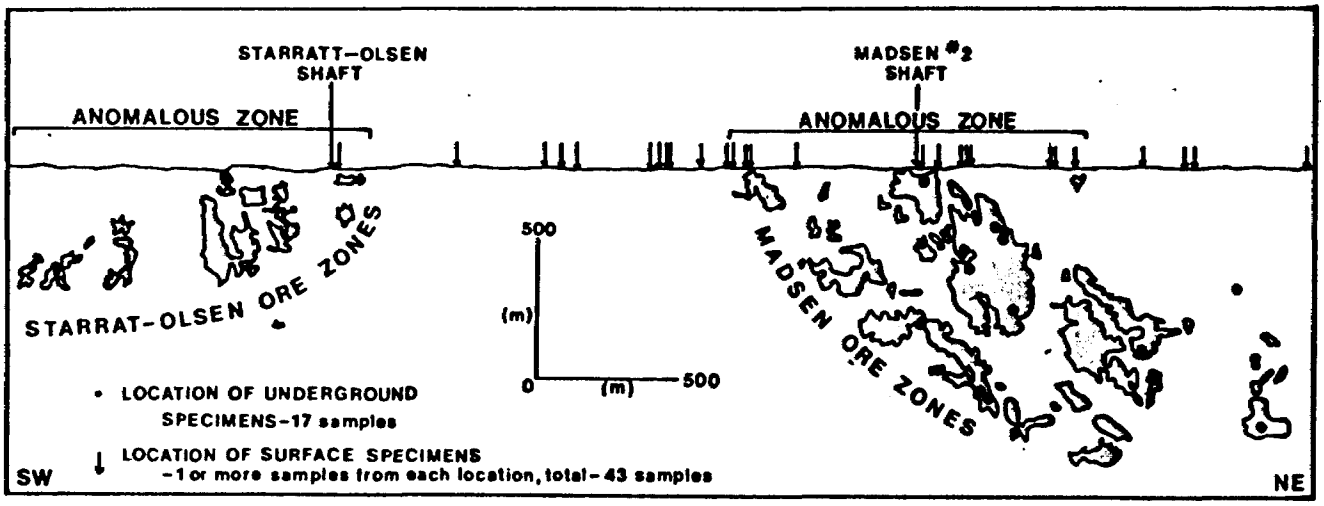
FALCONBRIDGE LTD.

OBA AREA PROJECTS
Property Summary

May 12, 1983 / drawn: VCH / data: RBB



Distribution pattern of Au in rocks of the Madsen and Starratt-Olsen Mines area.



Longitudinal section, in the plane of the Austin tuff, showing the distribution of the Madsen and Starratt-Olsen ore zones.

AFTER DUROCHER, 1983

FIGURE 2

OBA PROPERTY

BREMNER - FALCONBRIDGE CLAIMS

GEOCHEMICAL SURVEY SUMMARY

Total number of claims surveyed: 340

Man days:	June -	12
(field)	July -	39
	August -	9
Man days		8
(office)		
		68 man days

Technical days credit: 68 x 7 = 476

Days credit per claim: 476 ÷ 340 = 1.4 days

TIME DISTRIBUTION
MAN HOURS

Geochemical Survey

JUNE 1983

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
Ian R. Morrison 167 Wilson Ave., Timmins, Ontario	8	8	8	8	8	8	8	8		8	8	8	8	8	8	8											8	8	8	8
C. Scott Bruce 167 Wilson Ave., Timmins, Ontario	8	8	8	8	8	8	8	8		8	8	8	8	8	8	8	8	8	8	8							8	8	8	8
H. F. Keats 100-3074 Portage Ave., Winnipeg, Manitoba	8	8	8	8	8	8	8	8																						
Richard L. Kenny 100-3074 Portage Ave., Winnipeg, Manitoba													8	8	8	8	8	4	8	8							8	8	8	8
Colette Rennie Box 171 Pomquet, R. R. #7, Antigonish, N.S.	8	8	8	8	8	8	8	8		8	8	8	8	8	8	8	8													

TIME DISTRIBUTION
MAN HOURS

Geochemical Survey

JULY 1983

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
Ian R. Morrison 167 Wilson Ave., Timmins, Ontario	8	8	8		8	8	4	4													8	8	8	8	8	8	8	8	8	8	
C. Scott Bruce 167 Wilson Ave., Timmins, Ontario	8	8	8		8	8	4	4													8	8	8	8	8	8	8	8	8	8	
Richard L. Kenny 100-3074 Portage Ave., Winnipeg, Manitoba	8	8	8		8	8																									
Colette Rennie Box 171 Pomquet, R. R. #7, Antigonish, N.S.					8	8																									

TIME DISTRIBUTION
MAN HOUR

Geochemical Survey

AUGUST 1983

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
Ian R. Morrison 167 Wilson Ave., Timmins, Ontario	8	8	8	4	8			8	8	8	8	8	8																		
C. Scott Bruce 167 Wilson Ave., Timmins, Ontario	8	8	8	4	8	8																									

ANALYTICAL COST SUMMARY

BREMNER - FALCONBRIDGE CLAIMS

Certificate No.	Sample	No. Samples	$ Cost	
14092	rock	13	122.66	
	humus	163	1,197.09	
14549	rock	99	1,058.25	
14558	humus	477	3,434.40	
15059	humus	20	130.00	
14127	rock	1	9.25	
	Falconbridge claims			5,951.65
14558	humus	198	1,426.30	
14092	rock	91	858.60	
	humus	423	3,111.55	
14548	rock	50	462.50	
	Bremner claims			5,858.95
	TOTAL EXPENDITURES			11,810.60

RECEIPTS FOR ANALYTICAL COSTS

XRAL

X-RAY ASSAY LABORATORIES
LIMITED
1885 LESLIE STREET • DON MILLS, ONTARIO M3B 3J4 • (416) 445-5755

January 11,1984

Falconbridge Limited
Suite 100-3074 Portage Ave
Winnipeg, Manitoba R3K 0Y2

Dear Sir/Madam:

This is a statement as requested to confirm payment received by us for the following invoices:

14549 - 14558 - 15059 - 14127 - 14092 - 14548 - 14274 - 14495 - 13804 - 14013 - 13765 - 13846 - 13928.

Yours very truly,

X-Ray Assay Laboratories Limited

Judy Wong.

Judy Wong, Accounts Receivable Dept

KRAL

X-RAY ASSAY LABORATORIES
LIMITED

1885 LESLIE STREET • DON MILLS ONTARIO M3B 3J4 • (416) 445-5755

COPY TO

TO
FALCONBRIDGE LIMITED
ATTN: H.R. STOCKFORD
3074 PORTAGE AVENUE, SUITE 100
WINNIPEG, MANITOBA
R3K 0Y2

ED TO:
FALCONBRIDGE LIMITED
ATTN: H.R. STOCKFORD
3074 PORTAGE AVENUE, SUITE 100
WINNIPEG, MANITOBA
R3K 0Y2

CUSTOMER NO. 228

INVOICE NO.	INVOICE DATE	WORK ORDER NO.	DATE SUBMITTED
18935	15-SEP-83	[redacted]	11-AUG-83

TERMS

TERMS NET 30 DAYS
1.5% PER MONTH INTEREST ON ACCOUNT OVER 30 DAYS

P.O. NO.	CLIENT PROJECT NO.		TYPE OF SAMPLES SUBMITTED
	506		ROCK

	SHIPPED VIA	WAYBILL NO.	SHIPPED FROM
	CNX	213609830	

QUANTITY	DESCRIPTION METHOD	XRAL CODE	UNIT COST	AMOUNT
99	AU	2, 10, 7, 0, 0, 0	6.50	643.50
99	ROCK, CRUSHING & MILLING (CHROME STEEL MILL)	99, 1, 0, 0, 0, 0	2.75	272.25

Pd through Head Office OEA #83-38

3-3

SUB-TOTAL $ 915.75

SHIPPING CHARGES	CUSTOM BROKERAGE	TELEX	MINIMUM CHARGES	
142.50				$ 142.50
OTHER			SURCHARGE - RUSH SERVICE	

TOTAL IN CANADIAN FUNDS $ 1058.25

NAL INVOICE

X-RAY ASSAY LABORATORIES LIMITED

1885 LESLIE STREET, DON MILLS, ONTARIO M3B 3J4

PHONE 416-445-5755 TELEX 06-986947

CERTIFICATE OF ANALYSIS

TO: FALCONBRIDGE LIMITED
ATTN: H.R. STOCKFORD
3074 PORTAGE AVENUE, SUITE 100
WINNIPEG, MANITOBA
R3K 0Y2

CUSTOMER NO. 228

DATE SUBMITTED
11-AUG-83

REPORT 18935

REF. FILE 14549-K4

99 ROCKS PROJ. 506

WERE ANALYSED AS FOLLOWS:

	METHOD	DETECTION LIMIT
AU PPB	FADCP	2.000

X-RAY ASSAY LABORATORIES LIMITED

DATE 15-SEP-83

CERTIFIED BY .....

SAMPLE	AU PPB
FS4217	<2
FS4218	<2
FS4219	<2
FS4220	<2
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FS4222	<2
FS4223	<2
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FS4609	<2
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FS4650	<2
FS4651	2
FS4652	<2
FS4653	<2
FS4654	<2
FS4655	2

X-RAY ASSAY LABORATORIES
LIMITED

1885 LESLIE STREET • DON MILLS ONTARIO M3B 3J4 • (416) 445-5755

COPY TO

FALCONBRIDGE LIMITED
ATTN. RICHARD KENNY
3074 PORTAGE AVENUE, SUITE 100
WINNIPEG, MANITOBA
R3K 0Y2

ATTN
FALCONBRIDGE LIMITED
ATTN. RICHARD KENNY
3074 PORTAGE AVENUE, SUITE 100
WINNIPEG, MANITOBA
R3K 0Y2

CUSTOMER NO. 228

INVOICE NO.	INVOICE DATE	WORK ORDER NO.	DATE SUBMITTED
18332	26-JUL-83	[redacted]	14-JUL-83

TERMS

TERMS NET 30 DAYS
1.5% PER MONTH INTEREST ON ACCOUNT OVER 30 DAYS

NO.	CLIENT PROJECT NO		TYPE OF SAMPLES SUBMITTED
			ROCK

	SHIPPED VIA	WAY BILL NO.	SHIPPED FROM
	POST		

QTY	DESCRIPTION / METHOD	PREP CODE	UNIT COST	AMOUNT
1	AU	2, 10, 7, 0, 0, 0	6.50	6.50
1	ROCK, CRUSHING & MILLING (CHROME STEEL MILL)	99, 1, 0, 0, 0, 0	2.75	2.75

FB

EXPENSE	DETAIL	PROJECT	AMOUNT	GST
70305	608	506	9 25	

APPROVED	CODED	EXT. & ADDS.	CHEQUE No.
Hms	FB	FB	218

SUB-TOTAL $ 9.25

SHIPPING CHARGES	CUSTOM BROKERAGE	TELEX	MINIMUM CHARGES

OTHER

SURCHARGE - RUSH SERVICE

TOTAL IN CANADIAN FUNDS $ 9.25

FINAL INVOICE

X-RAY ASSAY LABORATORIES LIMITED

1885 LESLIE STREET, DON MILLS, ONTARIO M3B 3J4

PHONE 416-445-5755 TELEX 06-986947

Typed Proofed FB

CERTIFICATE OF ANALYSIS

TO: FALCONBRIDGE LIMITED
ATTN: RICHARD KENNY
3074 PORTAGE AVENUE, SUITE 100
WINNIPEG, MANITOBA
R3K 0Y2

CUSTOMER NO. 228

DATE SUBMITTED
14-JUL-83

REPORT 18332

REF. FILE 14127-G4

1 ROCK

WERE ANALYSED AS FOLLOWS:

	METHOD	DETECTION LIMIT
AU PPB	FADCP	2.000

FB

DATE 26-JUL-83

X-RAY ASSAY LABORATORIES LIMITED

CERTIFIED BY .....

SAMPLE	AU PPB
FS4803	3

RAL

X-RAY ASSAY LABORATORIES
LIMITED

1885 LESLIE STREET • DON MILLS ONTARIO M3B 3J4 • (416) 445-5755

COPY TO:

ALCONBRIDGE LIMITED
ATTN: RICHARD KENNY
1074 PORTAGE AVENUE, SUITE 100
WINNIPEG, MANITOBA
R3K 0Y2

TO
ALCONBRIDGE LIMITED
ATTN: RICHARD KENNY
1074 PORTAGE AVENUE, SUITE 100
WINNIPEG, MANITOBA
R3K 0Y2

CUSTOMER NO. 228

INVOICE NO.	INVOICE DATE	WORK ORDER NO	DATE SUBMITTED
18546	15-AUG-83	14092	13-JUL-83

TERMS

TERMS NET 30 DAYS
1.5% PER MONTH INTEREST ON ACCOUNT OVER 30 DAYS

NO.	CLIENT PROJECT NO.		TYPE OF SAMPLES SUBMITTED
			ROCK HUMUS

SHIPPED VIA	WAY BILL NO.	SHIPPED FROM
CNX	213604926	

	DESCRIPTION METHOD	XRAL CODE	UNIT COST	AMOUNT
14	AU	2, 10, 7, 0, 0, 0	6.50	676.00
16	AU, HUMUS	13, 2, 20, 0, 0, 0	6.50	3809.00
14	ROCK, CRUSHING & MILLING (CHROME STEEL MILL)	99, 1, 0, 0, 0, 0	2.75	286.00
73	HUMUS, DRYING & BLENDING	99, 2, 0, 0, 0, 0	0.70	415.10
1	MISSING SAMPLES			

Returned
H + S

2-2

SUB-TOTAL $ 5186.10

SHIPPING CHARGES	CUSTOM BROKERAGE	TELEX	MINIMUM CHARGES	
103.80				
OTHER			SURCHARGE - RUSH SERVICE	$ 103.80

TOTAL IN CANADIAN FUNDS $ 5289.90

NAL INVOICE

X-RAY ASSAY LABORATORIES LIMITED

1885 LESLIE STREET, DON MILLS, ONTARIO M3B 3J4

PHONE 416-445-5755 TELEX 06-986947

FH & BH

CERTIFICATE OF ANALYSIS

TO: FALCONBRIDGE LIMITED
ATTN: RICHARD KENNY
3074 PORTAGE AVENUE, SUITE 100
WINNIPEG, MANITOBA
R3K 0Y2

CUSTOMER NO. 228

DATE SUBMITTED
13-JUL-83

REPORT 18546

REF. FILE 14092-S1

104 ROCKS,593 HUMUS

WERE ANALYSED AS FOLLOWS:

	METHOD	DETECTION LIMIT
AU PPB	FADCP	2.000
AL PPB	NA	1.000

X-RAY ASSAY LABORATORIES LIMITED

DATE 15-AUG-83

CERTIFIED BY .....

X-RAY ASSAY LABORATORIES 15-AUG-83 REPORT 18546 REF. FILE 14092-S1 PAGE 1

SAMPLE	AU PPB	AU PPB	SAMPLE	AU PPB	AU PPB
BS-4301	2	--	BS-4426	<2	--
BS-4302	2	--	BS-4427	<2	--
BS-4303	<2	--	BS-4428	<2	--
BS-4304	<2	--	BS-4429	<2	--
BS-4305	<2	--	BS-4433	<2	--
BS-4306	<2	--	BS-4434	<2	--
BS-4307	<2	--	BS-4435	<2	--
BS-4308	9	--	BS-4436	<2	--
BS-4309	<2	--	BS-4437	<2	--
BS-4310	<2	--	BS-4438	<2	--
BS-4311	<2	--	BS-4439	<2	--
BS-4312	85	--	BS-4440	12	--
BS-4313	4	--	BS-4441	<2	--
BS-4314	<2	--	BS-4706	<2	--
BS-4315	<2	--	BS-4707	2	--
BS-4316	<2	--	BS-4710	<2	--
BS-4317	<2	--	BS-4711	8	--
BS-4318	<2	--	BS-4712	<2	--
BS-4319	<2	--	BS-4713	<2	--
BS-4320	<2	--	BS-4714	<2	--
BS-4321	<2	--	BS-4715	<2	--
BS-4322	<2	--	BS-4716	2	--
BS-4323	2	--	BS-4717	<2	--
BS-4324	<2	--	BS-4718	<2	--
BS-4325	7	--	BS-4719	<2	--
BS-4326	<2	--	BS-4720	<2	--
BS-4327	25	--	BS-4721	<2	--
BS-4328	<2	--	BS-4722	<2	--
BS-4329	<2	--	BS-4723	<2	--
BS-4330	<2	--	BS-4724	<2	--
BS-4401	<2	--	BS-4725	3	--
BS-4402	3	--	BS-4726	<2	--
BS-4403	<2	--	BS-4727	30	--
BS-4404	3	--	BS-4728	3	--
BS-4405	<2	--	BS-4729	<2	--
BS-4406	<2	--	BS-4730	<2	--
BS-4407	<2	--	FS-4211	2	--
BS-4408	<2	--	FS-4212	<2	--
BS-4409	8	--	FS-4213	<2	--
BS-4410	2	--	FS-4214	<2	--
BS-4411	<2	--	FS-4215	<2	--
BS-4412	<2	--	FS-4216	<2	--
BS-4413	<2	--	FS-4430	<2	--
BS-4414	<2	--	FS-4431	<2	--
BS-4415	<2	--	FS-4432	4	--
BS-4416	<2	--	FS-4801	<2	--
BS-4417	<2	--	FS-4802	<2	--
BS-4418	<2	--	FS-4804	<2	--
BS-4419	<2	--	FS-4805	<2	--
BS-4420	<2	--	BH-0001	--	2
BS-4421	<2	--	BH-0002	--	2
BS-4422	<2	--	BH-0003	--	5
BS-4423	<2	--	BH-0004	--	<1
BS-4424	<2	--	BH-0005	--	2
BS-4425	<2	--	BH-0006	--	1

SAMPLE	AU PPB	AU PPB	SAMPLE	AU PPB	AU PPB
BH-0007	--	2	BH-0062	--	3
BH-0008	--	3	BH-0063	--	1
BH-0009	--	<1	BH-0064	--	1
BH-0010	--	<1	BH-0065	--	2
BH-0011	--	3	BH-0066	--	2
BH-0012	--	3	BH-0067	--	2
BH-0013	--	2	BH-0068	--	3
BH-0014	--	1	BH-0068A	--	3
BH-0015	--	3	BH-0069	--	9
BH-0016	--	2	BH-0070	--	1
BH-0017	--	1	BH-0071	--	4
BH-0018	--	3	BH-0072	--	2
BH-0019	--	1	BH-0073	--	3
BH-0020	--	3	BH-0074	--	1
BH-0021	--	6	BH-0075	--	1
BH-0022	--	1	BH-0076	--	3
BH-0023	--	2	BH-0077	--	2
BH-0024	--	4	BH-0078	--	4
BH-0025	--	<1	BH-0079	--	2
BH-0026	--	3	BH-0080	--	<1
BH-0027	--	1	BH-0081	--	2
BH-0028	--	<1	BH-0082	--	1
BH-0029	--	<1	BH-0083	--	1
BH-0030	--	<1	BH-0084	--	1
BH-0031	--	3	BH-0085	--	3
BH-0032	--	NH	BH-0086	--	1
BH-0033	--	3	BH-0087	--	1
BH-0034	--	1	BH-0088	--	3
BH-0035	--	3	BH-0089	--	7
BH-0036	--	1	BH-0090	--	1
BH-0037	--	<1	BH-0091	--	3
BH-0038	--	<1	BH-0092	--	NH
BH-0039	--	1	BH-0093	--	2
BH-0040	--	1	BH-0094	--	5
BH-0041	--	<1	BH-0095	--	3
BH-0042	--	NH	BH-0096	--	2
BH-0043	--	NH	BH-0097	--	<1
BH-0044	--	<1	BH-0098	--	4
BH-0045	--	2	BH-0099	--	6
BH-0046	--	3	BH-0100	--	2
BH-0047	--	1	BH-0101	--	2
BH-0048	--	1	BH-0102	--	1
BH-0049	--	1	BH-0103	--	3
BH-0050	--	<1	BH-0104	--	4
BH-0051	--	<1	BH-0105	--	1
BH-0052	--	<1	BH-0106	--	2
BH-0053	--	3	BH-0107	--	2
BH-0054	--	<1	BH-0108	--	2
BH-0055	--	3	BH-0109	--	8
BH-0056	--	2	BH-0110	--	4
BH-0057	--	1	BH-0111	--	3
BH-0058	--	1	BH-0112	--	3
BH-0059	--	1	BH-0113	--	<1
BH-0060	--	1	BH-0114	--	3
BH-0061	--	<1	BH-0115	--	<1

SAMPLE	AU PPB	AU PPB	SAMPLE	AU PPB	AU PPB
BH-0116	--	2	BH-2011	--	3
BH-0117	--	<1	BH-2012	--	3
BH-0118	--	1	BH-2013	--	<1
BH-0119	--	<1	BH-2014	--	2
BH-0120	--	1	BH-2015	--	2
BH-0121	--	1	BH-2016	--	<1
BH-0122	--	1	BH-2017	--	1
BH-0123	--	2	BH-2018	--	2
BH-0124	--	3	BH-2019	--	1
BH-0125	--	1	BH-2020	--	5
BH-0126	--	2	BH-2021	--	1
BH-0127	--	<1	BH-2022	--	<1
BH-0128	--	1	BH-2023	--	1
BH-0129	--	1	BH-2024	--	1
BH-0130	--	NH	BH-2025	--	1
BH-0131	--	4	BH-2026	--	1
BH-0132	--	4	BH-2027	--	2
BH-0133	--	5	BH-2028	--	2
BH-0134	--	3	BH-2029	--	1
BH-0135	--	2	BH-2030	--	<1
BH-0136	--	3	BH-2031	--	5
BH-0137	--	1	BH-2032	--	<1
BH-0138	--	2	BH-2033	--	<1
BH-0139	--	2	BH-2034	--	2
BH-0140	--	3	BH-2035	--	3
BH-0141	--	3	BH-2036	--	3
BH-0142	--	2	BH-2037	--	2
BH-0143	--	2	BH-2038	--	2
BH-0143A	--	3	BH-2039	--	3
BH-0144	--	<1	BH-2040	--	1
BH-0145	--	1	BH-2041	--	1
BH-0146	--	1	BH-2042	--	3
BH-0147	--	1	BH-2043	--	2
BH-0148	--	3	BH-2044	--	2
BH-0149	--	4	BH-2045	--	2
BH-0150	--	1	BH-2046	--	2
BH-0151	--	1	BH-2047	--	<1
BH-0152	--	2	BH-2048	--	<1
BH-0153	--	<1	BH-2049	--	2
BH-0154	--	<1	BH-2050	--	4
BH-0155	--	3	BH-2051	--	2
BH-0156	--	1	BH-2052	--	2
BH-0157	--	1	BH-2053	--	2
BH-0158	--	3	BH-2054	--	<1
BH-0159	--	2	BH-2055	--	3
BH-20C1	--	2	BH-2056	--	2
BH-20C2	--	2	BH-2057	--	<1
BH-2003	--	5	BH-2058	--	<1
BH-20C4	--	<1	BH-2059	--	2
BH-20C5	--	1	BH-2060	--	3
BH-2006	--	1	BH-2061	--	2
BH-20C7	--	2	BH-2062	--	3
BH-20C8	--	2	BH-2063	--	<1
BH-2009	--	1	BH-2064	--	2
BH-2010	--	1	BH-2065	--	6

SAMPLE	AU PPB	AU PPB	SAMPLE	AU PPB	AU PPB
BH-2066	--	2	BH-2123	--	2
BH-2067	--	3	BH-2124	--	2
BH-2068	--	1	BH-2125	--	2
BH-2069	--	<1	BH-2126	--	<1
BH-2070	--	SMP MISS	BH-2127	--	<1
BH-2071	--	NH	BH-2128	--	1
BH-2072	--	1	BH-2129	--	<1
BH-2073	--	1	BH-2130	--	1
BH-2074	--	<1	BH-2131	--	1
BH-2075	--	<1	BH-2132	--	2
BH-2076	--	3	BH-2133	--	<1
BH-2077	--	3	BH-2134	--	1
BH-2078	--	<1	BH-2135	--	4
BH-2079	--	2	BH-2136	--	NH
BH-2080	--	2	BH-4001	--	<1
BH-2081	--	2	BH-4002	--	4
BH-2082	--	<1	BH-4003	--	NH
BH-2084	--	3	BH-4004	--	3
BH-2085	--	2	BH-4005	--	<1
BH-2086	--	1	BH-4006	--	<1
BH-2087	--	1	BH-4010	--	<1
BH-2088	--	2	BH-4011	--	1
BH-2089	--	1	BH-4012	--	2
BH-2090	--	2	BH-4013	--	<1
BH-2091	--	<1	BH-4014	--	2
BH-2092	--	1	BH-4015	--	<1
BH-2094	--	3	BH-4016	--	1
BH-2095	--	<1	BH-4017	--	2
BH-2096	--	<1	BH-4018	--	<1
BH-2097	--	1	BH-4019	--	1
BH-2098	--	2	BH-4020	--	3
BH-2099	--	1	BH-4021	--	3
BH-2100	--	2	BH-4022	--	<1
BH-21C1	--	2	BH-4023	--	1
BH-21C2	--	1	BH-4024	--	1
BH-21C3	--	2	BH-4025	--	2
BH-21C4	--	1	BH-4026	--	<1
BH-21C5	--	1	BH-4027	--	<1
BH-21C6	--	1	BH-4028	--	2
BH-21C7	--	3	BH-4029	--	<1
BH-21C8	--	1	BH-4030	--	2
BH-21C9	--	3	BH-4031	--	1
BH-2110	--	1	BH-4033	--	3
BH-2111	--	3	BH-4034	--	<1
BH-2112	--	2	BH-4035	--	3
BH-2113	--	<1	BH-4036	--	<1
BH-2114	--	<1	BH-4037	--	2
BH-2115	--	1	BH-4038	--	5
BH-2116	--	1	BH-4039	--	<1
BH-2117	--	1	BH-4040	--	<1
BH-2118	--	<1	BH-4041	--	<1
BH-2119	--	1	BH-4042	--	1
BH-2120	--	<1	BH-4043	--	<1
BH-2121	--	3	BH-4044	--	2
BH-2122	--	2	BH-4045	--	1

SAMPLE	AU PPB	AU PPB	SAMPLE	AU PPB	AU PPB
BH-4046	--	3	BH-4101	--	<1
BH-4047	--	<1	BH-4102	--	2
BH-4048	--	<1	BH-4103	--	3
BH-4049	--	<1	BH-4104	--	<1
BH-4050	--	<1	BH-4105	--	2
BH-4051	--	1	BH-4106	--	2
BH-4052	--	1	BH-4107	--	<1
BH-4053	--	<1	BH-4108	--	<1
BH-4054	--	2	BH-4109	--	2
BH-4055	--	1	BH-4110	--	1
BH-4056	--	1	BH-4111	--	<1
BH-4057	--	2	BH-4112	--	<1
BH-4058	--	<1	BH-4113	--	3
BH-4059	--	<1	BH-4114	--	1
BH-4060	--	2	BH-4115	--	1
BH-4061	--	3	BH-4116	--	<1
BH-4062	--	<1	BH-4117	--	2
BH-4063	--	1	BH-4118	--	<1
BH-4064	--	3	BH-4119	--	<1
BH-4065	--	1	BH-4120	--	1
BH-4066	--	<1	BH-4121	--	<1
BH-4067	--	3	BH-4122	--	3
BH-4068	--	2	BH-4123	--	<1
BH-4069	--	3	BH-4124	--	2
BH-4070	--	2	BH-4125	--	1
BH-4071	--	<1	BH-4126	--	5
BH-4072	--	<1	BH-4127	--	<1
BH-4073	--	2	BH-4128	--	2
BH-4074	--	2	BH-4129	--	1
BH-4075	--	4	BH-4130	--	1
BH-4076	--	3	BH-4131	--	1
BH-4077	--	31	BH-4132	--	2
BH-4078	--	3	BH-4133	--	3
BH-4079	--	<1	BH-4134	--	2
BH-4080	--	<1	BH-4135	--	<1
BH-4081	--	3	BH-4136	--	2
BH-4082	--	3	BH-4137	--	<1
BH-4083	--	3	BH-4138	--	3
BH-4084	--	1	BH-4139	--	<1
BH-4085	--	<1	BH-4140	--	7
BH-4086	--	1	BH-4141	--	5
BH-4087	--	6	FH-0001	--	1
BH-4088	--	5	FH-0002	--	2
BH-4089	--	3	FH-0003	--	2
BH-4090	--	4	FH-0004	--	1
BH-4091	--	3	FH-0005	--	<1
BH-4092	--	2	FH-0006	--	3
BH-4093	--	1	FH-0007	--	2
BH-4094	--	1	FH-0008	--	5
BH-4095	--	3	FH-0009	--	4
BH-4096	--	<1	FH-0010	--	1
BH-4097	--	1	FH-0011	--	<1
BH-4098	--	4	FH-0012	--	<1
BH-4099	--	2	FH-0013	--	2
BH-4100	--	5	FH-0014	--	<1

SAMPLE	AU PPB	AU PPB	SAMPLE	AU PPB	AU PPB
FH-0015	--	2	FH-2024	--	3
FH-0016	--	2	FH-2025	--	<1
FH-0017	--	3	FH-2026	--	<1
FH-0018	--	1	FH-2027	--	<1
FH-0019	--	3	FH-2028	--	<1
FH-0020	--	1	FH-2029	--	<1
FH-0021	--	<1	FH-2030	--	<1
FH-0022	--	<1	FH-2031	--	3
FH-0023	--	<1	FH-2032	--	1
FH-0024	--	4	FH-2033	--	5
FH-0025	--	1	FH-2034	--	3
FH-0026	--	1	FH-2035	--	3
FH-0027	--	<1	FH-2036	--	1
FH-0028	--	2	FH-2037	--	6
FH-0029	--	2	FH-2038	--	2
FH-0030	--	1	FH-2039	--	1
FH-0031	--	1	FH-2040	--	2
FH-0032	--	2	FH-2041	--	2
FH-0033	--	1	FH-2042	--	3
FH-0034	--	2	FH-2043	--	5
FH-0035	--	<1	FH-2044	--	<1
FH-0036	--	1	FH-2045	--	2
FH-0037	--	<1	FH-2046	--	2
FH-0038	--	3	FH-2047	--	1
FH-0039	--	<1	FH-2048	--	2
FH-0040	--	4	FH-2049	--	3
FH-0041	--	4	FH-2050	--	2
FH-0042	--	2	FH-2051	--	1
FH-0043	--	2	FH-2052	--	3
FH-0044	--	1	FH-2053	--	2
FH-0045	--	<1	FH-2054	--	2
FH-0046	--	1	FH-2055	--	1
FH-2001	--	<1	FH-2056	--	<1
FH-2002	--	3	FH-2057	--	<1
FH-2003	--	2	FH-2058	--	8
FH-2004	--	1	FH-2059	--	1
FH-2005	--	<1	FH-2060	--	2
FH-2006	--	<1	FH-2061	--	3
FH-2007	--	1	FH-2062	--	2
FH-2008	--	15	FH-2063	--	2
FH-2009	--	11	FH-4001	--	2
FH-2010	--	1	FH-4002	--	2
FH-2011	--	<1	FH-4003	--	<1
FH-2012	--	2	FH-4004	--	<1
FH-2013	--	4	FH-4005	--	2
FH-2014	--	1	FH-4006	--	2
FH-2015	--	1	FH-4007	--	2
FH-2016	--	<1	FH-4010	--	<1
FH-2017	--	2	FH-4011	--	1
FH-2018	--	3	FH-4012	--	1
FH-2019	--	3	FH-4013	--	3
FH-2020	--	1	FH-4014	--	2
FH-2021	--	2	FH-4015	--	4
FH-2022	--	<1	FH-4016	--	4
FH-2023	--	<1	FH-4017	--	3

SAMPLE	AU PPB	AU PPB	SAMPLE	AU PPB	AU PPB
FH-4018	--	3	FH-4041	--	3
FH-4019	--	3	FH-4042	--	3
FH-4020	--	1	FH-4043	--	1
FH-4021	--	<1	FH-4044	--	1
FH-4022	--	10	FH-4045	--	2
FH-4023	--	1	FH-4046	--	<1
FH-4024	--	3	FH-4047	--	1
FH-4025	--	1	FH-4048	--	1
FH-4026	--	2	FH-4049	--	1
FH-4027	--	1	FH-4050	--	1
FH-4028	--	<1	FH-4051	--	4
FH-4029	--	2	FH-4052	--	1
FH-4030	--	1	FH-4053	--	2
FH-4031	--	<1	FH-4054	--	3
FH-4032	--	3	FH-4055	--	3
FH-4036	--	3	FH-4056	--	<1
FH-4037	--	4	FH-4057	--	1
FH-4038	--	2	FH-4058	--	1
FH-4039	--	1	FH-4059	--	<1
FH-4040	--	<1			

NH - NOT HUMUS

RAL

X-RAY ASSAY LABORATORIES
LIMITED

1885 LESLIE STREET • DON MILLS ONTARIO M3B 3J4 • (416) 445-5755

COPY TO

SAME

FALCONBRIDGE LIMITED
ATTN: H.R. STOCKFORD
1074 PORTAGE AVENUE, SUITE 100
WINNIPEG, MANITOBA
R3K 0Y2

TO
FALCONBRIDGE LIMITED
ATTN: H.R. STOCKFORD
1074 PORTAGE AVENUE, SUITE 100
WINNIPEG, MANITOBA
R3K 0Y2

CUSTOMER NO. 228

INVOICE NO.	INVOICE DATE	WORK ORDER NO.	DATE SUBMITTED
19050	26-SEP-83	14558	11-AUG-83

TERMS

TERMS NET 30 DAYS
1.5% PER MONTH INTEREST ON ACCOUNT OVER 30 DAYS

CLIENT PROJECT NO.	TYPE OF SAMPLES SUBMITTED
	HUMUS

SHIPPED VIA	WAY BILL NO.	SHIPPED FROM

#	DESCRIPTION METHOD	XRAL CODE	UNIT COST	AMOUNT
9	AU, HUMUS	13, 2, 20, 0, 0, 0	6.50	4550.00
1	HUMUS, DRYING & BLENDING	99, 2, 0, 0, 0, 0	0.70	490.70

BH → 199

FH → 476

GH → 25

FALCONBRIDGE NICKEL MINES LIMITED

VENDOR NAME	INVOICE NUMBER OR DATE	CURRENCY 1 - CDN 2 - U.S.	F. I. L.
X-RAY ASSAY LAB	19050	1	

ACCOUNT CODE GENERAL LEDGER	DETAIL	EXPLORATION PROJECTS	AMOUNT	CR X
210130 15	6108	5016	3142.80	
210130 15	6108	5017	1143.20	
210130 15	6108	5018	180.00	

APPROVED	CODED	EXT. & ADDITION	A/PAY
			93-40

M.O. 79-1-75

Checked

SUB-TOTAL $ 5040.70

MINIMUM CHARGE

SURCHARGE

TOTAL IN CANADIAN FUNDS $ 5040.70

L INV

X-RAY ASSAY LABORATORIES LIMITED
1885 LESLIE STREET, DON MILLS, ONTARIO M3B 3J4
PHONE 416-445-5755 TELEX 06-986947

CERTIFICATE OF ANALYSIS

TO: FALCONBRIDGE LIMITED
ATTN: H.R. STOCKFORD
3074 PORTAGE AVENUE, SUITE 100
WINNIPEG, MANITOBA
R3K 0Y2

CUSTOMER NO. 228

DATE SUBMITTED
11-AUG-83

REPORT 19050

REF. FILE 14558-SR

701 HUMUS

WERE ANALYSED AS FOLLOWS:

	METHOD	DETECTION LIMIT
AU PPB	NA	1.000

This was not typed anywhere
AB

Bremner
Falconbridge Claims
'Gervais

RECEIVED
SEP 2? 1983
Falconbridge Nickel Mines Ltd.

X-RAY ASSAY LABORATORIES LIMITED

DATE 26-SEP-83

CERTIFIED BY ....

*** UNLESS INSTRUCTED OTHERWISE WE WILL DISCARD PULPS 180 DAYS ***
AND REJECTS 90 DAYS FROM DATE OF THIS REPORT

SAMPLE	AU PPB
BH0160	2
BH0161	1
BH0162	2
BH0163	1
BH0164	4
BH0165	<1
BH0166	4
BH0167	6
BH0168	<1
BH0169	<1
BH0170	3
BH0171	<1
BH0172	2
BH0173	3
BH0174	<1
BH0175	<1
BH0176	5
BH0177	7
BH0178	<1
BH0179	3
BH0180	4
BH0181	1
BH0182	5
BH0183	<1
BH0184	2
BH0185	4
BH0186	3
BH0187	<1
BH0188	1
BH0189	2
BH0190	<1
BH0191	4
BH0192	3
BH0193	<1
BH0194	1
BH0195	2
BH0196	2
BH0197	2
BH0198	1
BH0199	<1
BH0200	3
BH0201	2
BH0202	1
BH0203	<1
BH0204	2
BH0205	<1
BH0206	1
BH0207	2
BH0208	1
BH0209	4

SAMPLE	AU PPB
BH0210	3
BH0211	3
BH0212	2
BH0213	5
BH0214	4
BH0215	3
BH0216	1
BH0217	<1
BH0218	<1
BH0219	1
BH0220	4
BH0221	4
BH0222	1
BH0223	<1
BH0224	5
BH0225	<1
BH0226	<1
BH0227	3
BH0228	1
BH0229	2
BH0230	2
BH0231	3
BH0232	1
BH0233	1
BH0234	<1
BH0235	<1
BH0236	<1
BH0237	1
BH0238	4
BH0239	<1
BH0240	2
BH0241	2
BH0242	4
BH0243	5
BH0244	<1
BH0245	1
BH0246	8
BH0247	3
BH0248	<1
BH0249	1
BH0250	3
BH0251	<1
BH0252	5
BH0253	2
BH0254	<1
BH0255	4
BH0256	2
BH0257	1
BH0258	4
BH0259	1

SAMPLE	AU PPB
BH0260	<1
BH0261	<1
BH0262	1
BH0263	<1
BH0264	3
BH0265	3
BH0266	3
BH0267	1
BH0268	2
BH0269	3
BH0270	<1
BH0271	3
BH0272	13
BH0273	3
BH0274	3
BH0275	<1
BH0276	<1
BH0277	<1
BH0278	2
BH0279	6
BH0280	<1
BH0281	4
BH0282	1
BH0283	1
BH2137	<1
BH2138	<1
BH2139	<1
BH2140	2
BH2141	2
BH2142	1
BH2143	<1
BH2144	1
BH2145	3
BH2146	3
BH2147	2
BH2148	2
BH2149	<1
BH2150	<1
BH2151	3
BH2152	<1
BH2153	3
BH2154	2
BH2155	1
BH2156	2
BH2157	<1
BH2158	2
BH2159	2
BH2160	<1
BH2161	4
BH2162	<1

SAMPLE	AU PPB
BH2163	1
BH2164	1
BH2165	1
BH2166	8
BH2167	2
BH2168	<1
BH2169	<1
BH2170	<1
BH2171	3
BH2172	<1
BH2173	2
BH2174	2
BH2175	<1
BH2176	4
BH2177	6
BH2178	2
BH2179	<1
BH2180	<1
BH2181	1
BH2182	1
BH2183	<1
BH2184	3
BH2185	4
BH2186	4
BH2187	3
BH2188	2
BH2189	2
BH2190	<1
BH2191	2
BH2192	3
BH2193	<1
BH2194	<1
BH2195	3
BH2196	2
BH2197	<1
BH2198	<1
BH2199	NH
BH2200	<1
BH2201	2
BH2202	<1
BH2203	<1
BH2204	2
BH2205	2
BH2206	2
BH2207	<1
BH2208	1
BH2209	1
BH2210	1
BH2211	1
FH0047	1

Could be BS?

NH - NOT HUMUS

SAMPLE	AU PPB
FH0048	<1
FH0049	3
FH0050	1
FH0051	2
FH0052	1
FH0053	2
FH0054	<1
FH0055	<1
FH0056	1
FH0057	<1
FH0058	<1
FH0059	2
FH0060	<1
FH0061	<1
FH0062	<1
FH0063	3
FH0064	<1
FH0065	1
FH0066	2
FH0067	2
FH0068	5
FH0069	1
FH0070	<1
FH0071	<1
FH0072	1
FH0073	2
FH0074	3
FH0075	<1
FH0076	2
FH0077	1
FH0078	7
FH0079	<1
FH0080	3
FH0081	3
FH0082	<1
FH0083	2
FH0084	1
FH0085	4
FH0086	15
FH0087	4
FH0088	1
FH0089	1
FH0090	2
FH0091	2
FH0092	2
FH0093	2
FH0094	3
FH0095	2
FH0096	1
FH0097	4

SAMPLE	AU PPB
FH0098	<1
FH0099	6
FH0100	3
FH0101	<1
FH0102	2
FH0103	3
FH0104	4
FH0105	5
FH0106	3
FH0107	3
FH0108	<1
FH0109	3
FH0110	1
FH0111	2
FH0112	2
FH0113	2
FH0114	<1
FH0115	2
FH0116	25
FH0117	2
FH0118	2
FH0119	<1
FH0120	1
FH0121	1
FH0122	<1
FH0123	2
FH0124	<1
FH0125	4
FH0126	<1
FH0127	3
FH0128	2
FH0129	2
FH0130	1
FH0131	<1
FH0132	2
FH0133	1
FH0134	<1
FH0135	80
FH0136	3
FH0137	1
FH0138	<1
FH0139	1
FH0140	3
FH0141	1
FH0142	3
FH0143	3
FH0144	1
FH0145	2
FH0146	2
FH0147	2

SAMPLE	AU PPB
FH0148	2
FH0149	<1
FH0150	1
FH0151	4
FH0152	4
FH0153	<1
FH0154	<1
FH0155	2
FH0156	8
FH0157	2
FH0158	3
FH0159	<1
FH0160	2
FH0161	<1
FH0162	11
FH0163	4
FH0164	4
FH0165	3
FH0166	1
FH0167	4
FH0168	4
FH0169	2
FH0170	4
FH0171	3
FH0172	1
FH0173	7
FH0174	1
FH0175	10
FH0176	9
FH0177	2
FH0178	3
FH0179	<1
FH0180	2
FH0181	5
FH0182	5
FH0183	3
FH0184	<1
FH0185	2
FH0186	2
FH0187	2
FH0188	<1
FH0189	4
FH0190	3
FH0191	3
FH0192	5
FH0193	2
FH0194	1
FH0195	5
FH0196	<1
FH0197	4

SAMPLE	AU PPB
FH0198	5
FH0199	9
FH0200	3
FH0201	<1
FH0202	3
FH0203	3
FH0204	7
FH0205	3
FH0206	3
FH0207	11
FH0208	5
FH0209	3
FH0210	4
FH0211	1
FH0212	3
FH0213	8
FH0214	1
FH0215	3
FH0216	2
FH0217	2
FH0218	2
FH0219	4
FH0220	2
FH0221	2
FH0222	2
FH0223	6
FH0224	1
FH0225	3
FH0226	4
FH0227	6
FH0228	1
FH0229	4
FH0230	2
FH0231	4
FH0232	1
FH0233	4
FH0234	4
FH0235	3
FH0236	7
FH0237	2
FH0238	8
FH0239	3
FH0240	2
FH0241	1
FH0242	1
FH0243	4
FH0244	1
FH0245	1
FH0246	1
FH0247	1

SAMPLE	AU PPB
FH0248	<1
FH0249	3
FH0250	2
FH0251	<1
FH0252	2
FH0253	<1
FH0254	1
FH0255	<1
FH0256	<1
FH0257	<1
FH0258	<1
FH0259	1
FH0260	5
FH0261	3
FH0262	1
FH0263	3
FH0264	1
FH0265	2
FH0266	1
FH0267	3
FH0268	4
FH0269	<1
FH0270	2
FH0271	<1
FH0272	<1
FH0273	1
FH0274	3
FH0275	<1
FH0276	2
FH0277	<1
FH0278	1
FH0279	2
FH0280	5
FH0281	5
FH0282	1
FH0283	3
FH0284	3
FH0285	8
FH0286	1
FH0287	2
FH0288	1
FH0289	7
FH0290	3
FH0291	2
FH0292	2
FH0293	3
FH0294	<1
FH0295	<1
FH0296	3
FH0297	2

SAMPLE	AU PPB
FH0298	2
FH0299	1
FH0300	<1
FH0301	1
FH0302	6
FH0303	<1
FH0304	1
FH0305	2
FH0306	2
FH0307	<1
FH0308	2
FH0309	<1
FH2064	1
FH2065	2
FH2066	1
FH2067	2
FH2068	<1
FH2069	1
FH2070	2
FH2071	2
FH2072	<5
FH2073	1
FH2074	<1
FH2075	2
FH2076	2
FH2077	1
FH2078	1
FH2079	1
FH2080	2
FH2081	3
FH2082	2
FH2083	1
FH2084	6
FH2085	1
FH2086	1
FH2087	2
FH2088	<1
FH2089	2
FH2090	2
FH2091	1
FH2092	1
FH2093	1
FH2094	2
FH2095	2
FH2096	1
FH2097	4
FH2098	<5
FH2099	2
FH2100	1
FH2101	2

MPLE	AU PPB
FH2102	<1
FH2103	29
FH2104	3
FH2105	4
FH2106	2
FH2107	2
FH2108	2
FH2109	<1
FH2110	2
FH2111	1
FH2112	1
FH2113	1
FH2114	3
FH2115	<1
FH2116	1
FH2117	1
FH2118	3
FH2119	<1
FH2120	<1
FH2121	3
FH2122	<1
FH2123	1
FH2124	<1
FH2125	<1
FH2126	<1
FH2127	2
FH2128	3
FH2129	<1
FH2130	1
FH2131	2
FH2132	<1
FH2133	2
FH2134	2
FH2135	2
FH2136	2
FH2137	<1
FH2138	<1
FH2139	<1
FH2140	2
FH2141	3
FH2142	1
FH2143	4
FH2144	2
FH2145	1
FH2146	4
FH2147	1
FH2148	2
FH2149	4
FH2150	2
FH2151	<1

SAMPLE	AU PPB
FH2152	<1
FH2153	3
FH2154	1
FH2155	4
FH2156	6
FH2157	<1
FH2158	12
FH2159	4
FH2160	11
FH2161	30
FH2162	7
FH2163	10
FH2164	9
FH2165	20
FH2166	2
FH2167	13
FH2168	6
FH2169	13
FH2170	9
FH2171	26
FH2172	3
FH2173	3
FH2174	3
FH2175	1
FH2176	<1
FH2177	3
FH2178	4
FH2179	<1
FH2180	1
FH2181	<1
FH2182	2
FH2183	3
FH2184	4
FH2185	2
FH2186	2
FH2187	1
FH2188	<1
FH2189	2
FH2190	<1
FH2191	1
FH2192	5
FH2193	<1
FH2194	<1
FH2195	1
FH2196	<1
FH2197	1
FH2198	<1
FH2199	3
FH2200	1
FH2201	<1

MPLE	AU PPB
FH2202	<1
FH2203	2
FH2204	2
FH2205	3
FH2206	1
FH2207	4
FH2208	2
FH2209	1
FH2210	4
FH2211	2
FH2212	2
FH2213	<1
FH2214	3
FH2215	1
FH2216	<1
FH2217	1
FH2218	2
FH2219	<1
FH2220	2
FH2221	5
FH2222	1
FH2223	2
FH2224	<1
FH2225	2
FH2226	5
FH2227	1
FH2228	2
FH2229	3
FH2230	<1
FH2231	2
FH2232	<1
FH2233	1
FH2234	2
FH2235	3
FH2236	<1
FH2237	4
FH2238	2
FH2239	<1
FH2240	<1
FH2241	2
FH2242	<1
FH2243	<1
FH2244	3
FH2245	3
FH2246	1
FH2247	2
FH2248	1
FH2249	<1
FH2250	3
FH2251	3

MPLE	AU PPB
FH2252	2
FH2253	3
FH2254	<1
FH2255	<1
FH2256	2
FH2257	2
FH2258	5
FH2259	3
FH2260	3
FH2261	3
FH2262	4
FH2263	2
FH2264	<1
FH2265	1
FH2266	2
FH2267	4
FH2268	1
FH2269	<1
FH2270	<1
FH2271	<1
FH2272	1
FH2273	7
FH2274	4
FH2275	5
FH2276	<1
FH2277	1
GH2349	3
GH2350	1
GH2351	3
GH2352	3
GH2353	1
GH2354	1
GH2355	3
GH2356	3
GH2357	6
GH2358	2
GH2359	3
GH2360	3
GH2361	3
GH2362	3
GH2363	2
GH2364	1
GH2365	3
GH2366	2
GH2367	4
GH2368	3
GH2369	2
GH2370	1
GH2371	4
GH2372	<1

MPLE	AU PPB
GH2373	2

X-RAY ASSAY LABORATORIES
LIMITED

1885 LESLIE STREET • DON MILLS ONTARIO M3B 3J4 • (416) 445-5755

COPY TO

FALCONBRIDGE LIMITED
ATTN: R.B. BAND
3074 PORTAGE AVENUE, SUITE 100
WINNIPEG, MANITOBA
R3K 0Y2

TO
FALCONBRIDGE LIMITED
ATTN: R.B. BAND
3074 PORTAGE AVENUE, SUITE 100
WINNIPEG, MANITOBA
R3K 0Y2

CUSTOMER NO. 228

INVOICE NO.	INVOICE DATE	WORK ORDER NO.	DATE SUBMITTED
19390	24-OCT-83	[redacted]	30-SEP-83

TERMS

TERMS NET 30 DAYS
1.5% PER MONTH INTEREST ON ACCOUNT OVER 30 DAYS

NO	CLIENT PROJECT NO.		TYPE OF SAMPLES SUBMITTED
			HUMUS

	SHIPPED VIA	WAY BILL NO.	SHIPPED FROM
	ON-HAND NO. 14558		

	DESCRIPTION / PERIOD	GAL CODE	UNIT COST	AMOUNT
20	AU. HUMUS	13, 2, 20, 0, 0, 0	6.50	130.00

PN 506

EXPENSE	DETAIL	PROJECT	AMOUNT
70305	608	506	130 00

APPROVED	CODED	EXT. & ADDS.	CHEQUE No.
			420

SUB-TOTAL			$ 130.00
SHIPPING CHARGES	CUSTOM BROKERAGE	TELEX	MINIMUM CHARGES
OTHER			SURCHARGE - RUSH SERVICE
TOTAL IN CANADIAN FUNDS			$ 130.00

NAI INVOICE

X-RAY ASSAY LABORATORIES LIMITED

1885 LESLIE STREET, DON MILLS, ONTARIO M3B 3J4

PHONE 416-445-5755 TELEX 06-986947

CERTIFICATE OF ANALYSIS

TO: FALCONBRIDGE LIMITED
ATTN: R.B. BAND
3074 PORTAGE AVENUE, SUITE 100
WINNIPEG, MANITOBA
R3K 0Y2

CUSTOMER NO. 228

DATE SUBMITTED
30-SEP-83

REPORT 19390

REF. FILE 15059-SR

20 PULPS ON HAND WO#14558 - RPT#19050

WERE ANALYSED AS FOLLOWS:

	METHOD	DETECTION LIMIT
AU PPB	NA	1.000

X-RAY ASSAY LABORATORIES LIMITED

DATE 24-OCT-83

CERTIFIED BY .....

*** UNLESS INSTRUCTED OTHERWISE WE WILL DISCARD PULPS 180 DAYS ***
AND REJECTS 90 DAYS FROM DATE OF THIS REPORT

MPLE	AU PPB
FH2155	4
FH2156	4
FH2157	2
FH2158	15
FH2159	8
FH2160	15
FH2161	24
FH2162	7
FH2163	11
FH2164	12
FH2165	10
FH2166	4
FH2167	14
FH2168	10
FH2169	17
FH2170	8
FH2171	32
FH2172	4
FH2173	<1
FH2174	5

XRAL

X-RAY ASSAY LABORATORIES
LIMITED

1885 LESLIE STREET • DON MILLS ONTARIO M3B 3J4 • (416) 445-5755

COPY TO

TO
FALCONBRIDGE LIMITED
ATTN: H.R. STOCKFORD
3074 PORTAGE AVENUE, SUITE 100
WINNIPEG, MANITOBA
R3K 0Y2

D TO:
FALCONBRIDGE LIMITED
ATTN: H.R. STOCKFORD
3074 PORTAGE AVENUE, SUITE 100
WINNIPEG, MANITOBA
R3K 0Y2

CUSTOMER NO. 228

INVOICE NO.	INVOICE DATE	WORK ORDER NO.	DATE SUBMITTED
18874	09-SEP-83	[redacted]	11-AUG-83

TERMS

TERMS NET 30 DAYS
1.5% PER MONTH INTEREST ON ACCOUNT OVER 30 DAYS

NO.	CLIENT PROJECT NO.		TYPE OF SAMPLES SUBMITTED
	507		ROCK

SHIPPED VIA	WAY BILL NO.	SHIPPED FROM
CNX	213609830	

	DESCRIPTION METHOD	XRAL CODE	UNIT COST	AMOUNT
50	AU	2, 10, 7, 0, 0, 0	6.50	325.00 ✓
10	ROCK, CRUSHING & MILLING (CHROME STEEL MILL)	99, 1, 0, 0, 0, 0	2.75	137.50 ✓

EXPENSE	DETAIL	PROJECT	AMOUNT
70305	608	507	462 50

APPROVED	CODED	EXT. & ADDS.	CHEQUE No.
Aut.	KB	KB	332

SUB-TOTAL $ 462.50

SHIPPING CHARGES	CUSTOM BROKERAGE	TELEX	MINIMUM CHARGES

OTHER	SURCHARGE - RUSH SERVICE

TOTAL IN CANADIAN FUNDS $ 462.50

KB

INVOICE

X-RAY ASSAY LABORATORIES LIMITED

1885 LESLIE STREET, DON MILLS, ONTARIO M3B 3J4

PHONE 416-445-5755 TELEX 06-986947

CERTIFICATE OF ANALYSIS

TO: FALCONBRIDGE LIMITED
ATTN: H.R. STOCKFORD
3074 PORTAGE AVENUE, SUITE 100
WINNIPEG, MANITOBA
R3K 0Y2

CUSTOMER NO. 228

DATE SUBMITTED
11-AUG-83

REPORT 18874

REF. FILE 14548-B6

50 ROCKS PROJ. 507

WERE ANALYSED AS FOLLOWS:

	METHOD	DETECTION LIMIT
AU PPB	FADCP	2.000

X-RAY ASSAY LABORATORIES LIMITED

DATE 09-SEP-83

CERTIFIED BY .....

SAMPLE	AU PPB
BS4331	9
BS4332	<2
BS4333	5
BS4334	4
BS4335	<2
BS4336	<2
BS4337	<2
BS4338	<2
BS4339	<2
BS4340	5
BS4341	9
BS4342	12
BS4343	3
[redacted]4344	>10000
[redacted]4345	37
[redacted]4346	>10000
BS4347	47
BS4348	34
BS4349	10
BS4350	3
BS4351	21
BS4352	24
BS4353	<2
BS4354	<2
BS4355	<2
BS4356	<2
BS4357	<2
BS4358	<2
BS4442	3
[redacted]4443	9900
BS4444	<2
BS4445	3
BS4446	2
BS4447	<2
BS4448	2
BS4449	6
BS4450	4
BS4451	<2
BS4452	2
BS4453	2
BS4454	<2
BS4455	<2
BS4456	4
BS4457	5
BS4458	3
BS4459	<2
[redacted]4460	<2
BS4461	<2
BS4462	<2
BS4463	2

> - CONCENTRATION TOO HIGH FOR TREATMENT BY GEOCHEMICAL METHOD

900

Mining Lands Section

File No 2.6751

Control Sheet

TYPE OF SURVEY

____ GEOPHYSICAL

____ GEOLOGICAL

✓ GEOCHEMICAL

✓ EXPENDITURE

MINING LANDS COMMENTS:

LGD L.D

D. Hurst

Signature of Assessor

July 14/84

Date

May 11 '84

Ministry of Natural Resources
Ontario

Report of Work
(Geophysical, Geological, Geochemical and Expenditures)

#61/84
2.6751

The Mining Act

Instructions: – Please type or print.
– If number of mining claims traversed exceeds space on this form, attach a list.
Note: – Only days credits calculated in the "Expenditures" section may be entered in the "Expend. Days Cr." columns.
– Do not use shaded areas below.

Type of Survey(s): Geochemical
Township or Area: Walls and Hawkins Twps.
Claim Holder(s): Falconbridge Limited,
Prospector's Licence No.: A21647
Address: Box 40, Commerce Court West, Toronto, Ont. M5L 1B4
Survey Company: Falconbridge Limited
Date of Survey (from & to): 27 6 83 (Day Mo. Yr.) – 1 3 84 (Day Mo. Yr.)
Total Miles of line Cut:
Name and Address of Author (of Geo-Technical report): R.B. Band, 2546 Assiniboine Ave., Winnipeg, Man.

Credits Requested per Each Claim in Columns at right

Special Provisions	Geophysical	Days per Claim
For first survey: Enter 40 days. (This includes line cutting)	- Electromagnetic	
	- Magnetometer	
For each additional survey: using the same grid:	- Radiometric	
Enter 20 days (for each)	- Other	
	Geological	
	Geochemical	
Man Days	**Geophysical**	**Days per Claim**
Complete reverse side and enter total(s) here	- Electromagnetic	
	- Magnetometer	
	- Radiometric	
	- Other	
	Geological	
	Geochemical	1.4
Airborne Credits		**Days per Claim**
Note: Special provisions credits do not apply to Airborne Surveys.	Electromagnetic	
	Magnetometer	
	Radiometric	

RECEIVED
APR 9 1984
MINING LANDS SECTION

PORCUPINE MINING DIVISION
RECEIVED
MAR 12 1984
A.M. 7 8 9 10 11 12 P.M. 1 2 3 4 5 6

Mining Claims Traversed (List in numerical sequence)

Prefix	Number	Expend. Days Cr.	Prefix	Number	Expend. Days Cr.
P	597999		P	658119	
	598000			658121	
	658006			685122	
	658007			658123	
	658008			658124	
	658009			658125	
	658101			658126	
	658102			658128	
	658103			658129	
	658104			658130	
	658105			658131	
	658106			658132	
	658107			658133	
	658108			658134	
	658109			658135	
	658110			658136	
	658111			658137	
	658112			658138	
	658113			658139	
	658114			658140	
	658115			658141	
	658116			658142	
	658117			658143	

Total number of mining claims covered by this report of work: 340

Expenditures (excludes power stripping)

Type of Work Performed: Geochemical (analyses) Sect. 77-19
Performed on Claim(s): All claims listed

RECORDED
MAR 12 1984
Receipt No. C/

Calculation of Expenditure Days Credits

Total Expenditures				Total Days Credits
$ 11810.60	+	15	=	787.3

Instructions: Total Days Credits may be apportioned at the claim holder's choice. Enter number of days credits per claim selected in columns at right.

For Office Use Only

Total Days Cr. Recorded	Date Recorded	Mining Recorder
1263.3	March 12/84	[signature]
	Date Approved as Recorded	Branch Director
	84.7.16	[signature]

Date: March 9, 1984
Recorded Holder or Agent (Signature): RB Band

Certification Verifying Report of Work

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

Name and Postal Address of Person Certifying: R.B. Band, 2546 Assiniboine Crescent, Winnipeg Man.

Date Certified: March 9, 1984
Certified by (Signature): RB Band

1362 (81/9)

Assessment Work Breakdown

Man Days are based on eight (8) hour Technical or Line-cutting days. Technical days include work performed by consultants, draftsmen, etc..

Type of Survey

Technical Days				Technical Days Credits		Line-cutting Days		Total Credits		No. of Claims		Days per Claim
68	X	7	=	476	+		=		÷	340	=	1.4

Type of Survey

Technical Days				Technical Days Credits		Line-cutting Days		Total Credits		No. of Claims		Days per Claim
	X	7	=		+		=		÷		=	

Type of Survey

Technical Days				Technical Days Credits		Line-cutting Days		Total Credits		No. of Claims		Days per Claim
	X	7	=		+		=		÷		=	

Type of Survey

Technical Days				Technical Days Credits		Line-cutting Days		Total Credits		No. of Claims		Days per Claim
	X	7	=		+		=		÷		=	

Addendum to Report of Work filed by Falconbridge Limited covering a geochemical survey in Walls and Hawkins Twps., dated March 9, 1984

PREFIX	NUMBER	EXPEND. DAYS CR.	PREFIX	NUMBER	EXPEND. DAYS CR.
P	686901	18.6	P	700132	18.6
	686902	18.6		700133	
	686903			700134	
	686904			700135	
	686905			700136	
	686906	18.6		700137	
	686907	18.6		700138	
	686908	18.6		700139	18.6
	686909	18.6		700140	18.6
	686910			700141	
	686911			700142	
	686912			700143	
	686913	18.6		700144	
	686914	18.6		700145	
	686915	18.6		700146	
	686916	18.6		700147	18.6
	686917			700148	18.6
	686918			700149	6.1
	686919			700150	1.4
	686920	18.6		700151	
	686921	18.6		700152	
	686922			700153	
	686923	18.6		700154	18.6
	686924	18.6		700155	18.6
	686925				
	686926			700405	
	686927			700406	
	686928	18.6		700407	
	686929	18.6		700408	
	686930			700409	
	686931			700410	
	686932			700411	
	686933	18.6		700412	
	686934	18.6		700413	
	686935			700414	
	686936			700415	
	686937	18.6		700416	
	686938	18.6		700417	
	686939			700418	
	686940	1.4		700419	
	686941	1.4		700420	
	686942	18.6		700421	
				700422	
	700124	18.6		700423	
	700125			700424	
	700126			700425	
	700127			700426	
	700128			700427	
	700129			700428	
	700130			700429	
	700131	18.6		700430	

Addendum to Report of Work filed by Falconbridge Limited covering a geochemical survey in Walls and Hawkins Twps., dated March 9, 1984

PREFIX	NUMBER	EXPEND. DAYS CR.	PREFIX	NUMBER	EXPEND. DAYS CR.
P	700431		P	700490	
	700432			700491	
	700433			700492	
	700434			700493	
	~~700435~~	refused application		700494	
	~~700436~~	" "		700495	
	700437			700496	
	700438			700497	
	700439			700498	
	700440			700499	18.6
	700441			700500	
	700442			700501	
	700443			700502	
	700444			700503	
	700455	18.6		700504	
	700456	18.6			
	700457	18.6		758681	
	700458	18.6		758682	
	700459	18.6		758683	
	700460			758684	
	700461			758685	
	700462			758686	
	700463	18.6		758687	
	700464	18.6		758688	
	700465			758689	
	700466			758690	
	700467			758691	
	700468	18.6		758692	
	700469	18.6		758693	
	700470	18.6		758694	
	700471	18.6		758695	
	700472			758696	
	700473			758697	
	700474			758698	
	700475			758699	
	700476			758700	
	700477			758701	
	700478			758702	
	700479			758703	
	700480				
	700481			761001	
	700482			761002	
	700483			761003	
	700484			761004	
	700485			761005	
	700486			761006	
	700487			761007	
	700488			761008	
	700489			761009	

Addendum to Report of Work filed by Falconbridge Limited, covering a geochemical survey in Wall and Hawkins Twps., dated March 9, 1984

PREFIX	NUMBER	EXPEND. DAYS CR.	PREFIX	NUMBER	EXPEND. DAYS CR.
P	761010		P	764325	
	761011			764326	
	761012			764327	
	761013			764328	
	761014			764329	
	761015			764330	
	761016			764331	
	761041			764332	
	761042			764333	
	761043			764334	
	761044			764335	
	761045			764336	
	761046			764337	
	761047			764338	
	761048			764339	
	761049			764340	
	761050			764341	
	761051			764342	
	761052			764343	
	761053			764344	
	761054			764345	
	761055			764346	
	761056			764347	
				764348	
	764301			764349	
	764302			764350	
	764303			764351	
	764304			764352	
	764305			764353	
	764306			764354	
	764307			764355	
	764308			764356	
	764309			764357	
	764310			764358	
	764311			764359	
	764312			764360	
	764313				
	764314			764371	
	764315			764372	
	764316			764373	
	764317			764374	
	764318			764375	
	764319			764376	
	764320			764377	
	764321			764378	
	764322			764379	
	764323			764380	
	764324			764381	

Addendum to Report of Work filed by Falconbridge Limited covering a geochemical survey in Walls and Hawkins Twps., dated March 9, 1984

PREFIX	NUMBER	EXPEND. DAYS CR.
P	764382	
	764383	
	764384	
	764385	
	764386	
	764388	
	764389	
	764390	

1984 05 24

Your File: 61
Our File: 2.6751

Mr. Bruce W. Hanley
Mining Recorder
Ministry of Natural Resources
60 Wilson Avenue
Timmins, Ontario
P4N 2S7

Dear Sir:

We have received Data for a Geochemical Survey and Assaying submitted under Section 77(19) of the Mining Act R.S.O. 1980 for Mining Claims P 597999 et al in the Townships of Walls and Hawkins.

This material will be examined and assessed and a statement of assessment work credits will be issued.

Yours sincerely,

S.E. Yundt
Director
Land Management Branch

Whitney Block, Room 6643
Queen's Park
Toronto, Ontario
M7A 1W3
Phone:(416)965-6918

A. Barr:mc

cc: Falconbridge Limited
Box 40
Commerce Court West
Toronto, Ontario
M5L 1B4

cc: R.B. Band
c/o Falconbridge Limited
2546 Assiniboine Crescent
Winnipeg, Manitoba
R3J 0B2

Ontario

Ministry of Natural Resources

File _____

GEOPHYSICAL – GEOLOGICAL – GEOCHEMICAL TECHNICAL DATA STATEMENT

TO BE ATTACHED AS AN APPENDIX TO TECHNICAL REPORT.
FACTS SHOWN HERE NEED NOT BE REPEATED IN REPORT.
TECHNICAL REPORT MUST CONTAIN INTERPRETATION, CONCLUSIONS ETC.

Type of Survey(s) GEOCHEMICAL

Township or Area HAWKINS AND WALLS TWP.

Claim Holder(s) FALCONBRIDGE LTD.
P.O.BOX 40, COMMERCE COURT W. TORONTO

Survey Company FALCONBRIDGE LTD.

Author of Report I. R. MORRISON

Address of Author 167 WILSON AVE. TIMMINS, ONTARIO

Covering Dates of Survey 27/6/83 to 1/3/84
(linecutting to office)

Total Miles of Line Cut N/A

SPECIAL PROVISIONS CREDITS REQUESTED

ENTER 40 days (includes line cutting) for first survey.

ENTER 20 days for each additional survey using same grid.

DAYS per claim

Geophysical
–Electromagnetic _____
–Magnetometer _____
–Radiometric _____
–Other _____
Geological _____
Geochemical _____

AIRBORNE CREDITS (Special provision credits do not apply to airborne surveys)

Magnetometer _____ Electromagnetic _____ Radiometric _____
(enter days per claim)

DATE: 11 May 1984 SIGNATURE: I R Morrison
Author of Report or Agent

Res. Geol. _____ Qualifications 2.3447

Previous Surveys

File No.	Type	Date	Claim Holder

OFFICE USE ONLY

MINING CLAIMS TRAVERSED
List numerically

(prefix) (number)

P - 686901 - 686942
700124 - 700155
700455 - 700484
700497 - 700499
700485 - 700496
700500 - 700504
700405 - 700434
700437 - 700444
758693
658006 - 658009
597999 - 598000
658101 - 658143
758681 - 758692
758694 - 758703
761001 - 761020
761041 - 761056
764301 - 764315
764317 - 764352
764371 - 764386
764388 - 764390
764353 - 764360

If space insufficient, attach list

TOTAL CLAIMS 348

837 (5/79)

GEOPHYSICAL TECHNICAL DATA

GROUND SURVEYS – If more than one survey, specify data for each type of survey

Number of Stations _____ Number of Readings _____

Station interval _____ Line spacing _____

Profile scale _____

Contour interval _____

MAGNETIC

Instrument _____

Accuracy – Scale constant _____

Diurnal correction method _____

Base Station check-in interval (hours) _____

Base Station location and value _____

_____

ELECTROMAGNETIC

Instrument _____

Coil configuration _____

Coil separation _____

Accuracy _____

Method: ☐ Fixed transmitter ☐ Shoot back ☐ In line ☐ Parallel line

Frequency _____
(specify V.L.F. station)

Parameters measured _____

GRAVITY

Instrument _____

Scale constant _____

Corrections made _____

_____

Base station value and location _____

_____

Elevation accuracy _____

INDUCED POLARIZATION RESISTIVITY

Instrument _____

Method ☐ Time Domain ☐ Frequency Domain

Parameters – On time _____ Frequency _____

– Off time _____ Range _____

– Delay time _____

– Integration time _____

Power _____

Electrode array _____

Electrode spacing _____

Type of electrode _____

SELF POTENTIAL

Instrument _____ Range _____

Survey Method _____

_____

Corrections made _____

_____

RADIOMETRIC

Instrument _____

Values measured _____

Energy windows (levels) _____

Height of instrument _____ Background Count _____

Size of detector _____

Overburden _____

(type, depth – include outcrop map)

OTHERS (SEISMIC, DRILL WELL LOGGING ETC.)

Type of survey _____

Instrument _____

Accuracy _____

Parameters measured _____

_____

Additional information (for understanding results) _____

_____

_____

AIRBORNE SURVEYS

Type of survey(s) _____

Instrument(s) _____

(specify for each type of survey)

Accuracy _____

(specify for each type of survey)

Aircraft used _____

Sensor altitude _____

Navigation and flight path recovery method _____

_____

Aircraft altitude _____ Line Spacing _____

Miles flown over total area _____ Over claims only _____

GEOCHEMICAL SURVEY – PROCEDURE RECORD

Numbers of claims from which samples taken (SEE ATTACHED LIST) 348 claims

1273 HUMUS
271 ROCK

Total Number of Samples

Type of Sample HUMUS & ROCK
(Nature of Material)

Average Sample Weight HUMUS: 100 g / ROCK: 0.5 - 1.0 kg

Method of Collection HAND TROWEL AND SLEDGE HAMMER

Soil Horizon Sampled Ah

Horizon Development

Sample Depth VARIABLE (0 - 15cm)

Terrain LOW TO MODERATE RELIEF

Drainage Development FAIR TO POOR

Estimated Range of Overburden Thickness 0 TO 30 m

SAMPLE PREPARATION
(Includes drying, screening, crushing, ashing)

Mesh size of fraction used for analysis

General

ANALYTICAL METHODS

Values expressed in: per cent ☐ p. p. m. ☐ p. p. b. ☒

Cu, Pb, Zn, Ni, Co, Ag, Mo, As,-(circle)

Others Au

Field Analysis (_____ tests)

Extraction Method

Analytical Method

Reagents Used

Field Laboratory Analysis

No. (_____ tests)

Extraction Method

Analytical Method

Reagents Used

1273 HUMUS
271 ROCK

Commercial Laboratory (_____ tests)

Name of Laboratory XRAY ASSAY LABORATORIES

Extraction Method WHOLE SAMPLE ANALYZED

Analytical Method N.A. & FADCP

Reagents Used

General

FALCONBRIDGE LIMITED

PN 506, 907, 908

OBA PROJECT

WALLS/HAWKINS TWPS.

HUMUS SAMPLE LOCATION PLAN

DATE	MAY 16,1983
NTS REF	42 F/1
DRAWN	VCH
DWG.	

0 500 1000 1500 2000M

1" = 1MILE APPROX.

Township Boundaries

Roads/Trails

Railroad

Lake/River & Shoreline

Intermittent Stream

Swamp

Gravelpit

Ropes

Centre of Airphoto

x Humus Sample Location

4031 Sample Number

D&G W1

D&G W7

OBA PROPERTY

1" = 20 MILES

Falconbridge

Nickel

Sudbury

Creek

Road

Power Line

Rail Road

BOOMERANG LAKE

MOONDANCE LAKE

WALLS TWP

MARJORIE TWP

HAWKINS TWP

IRVING TWP

CLIMAX LAKE

ARMON LAKE

ZOL LAKE

SWANSON LAKE

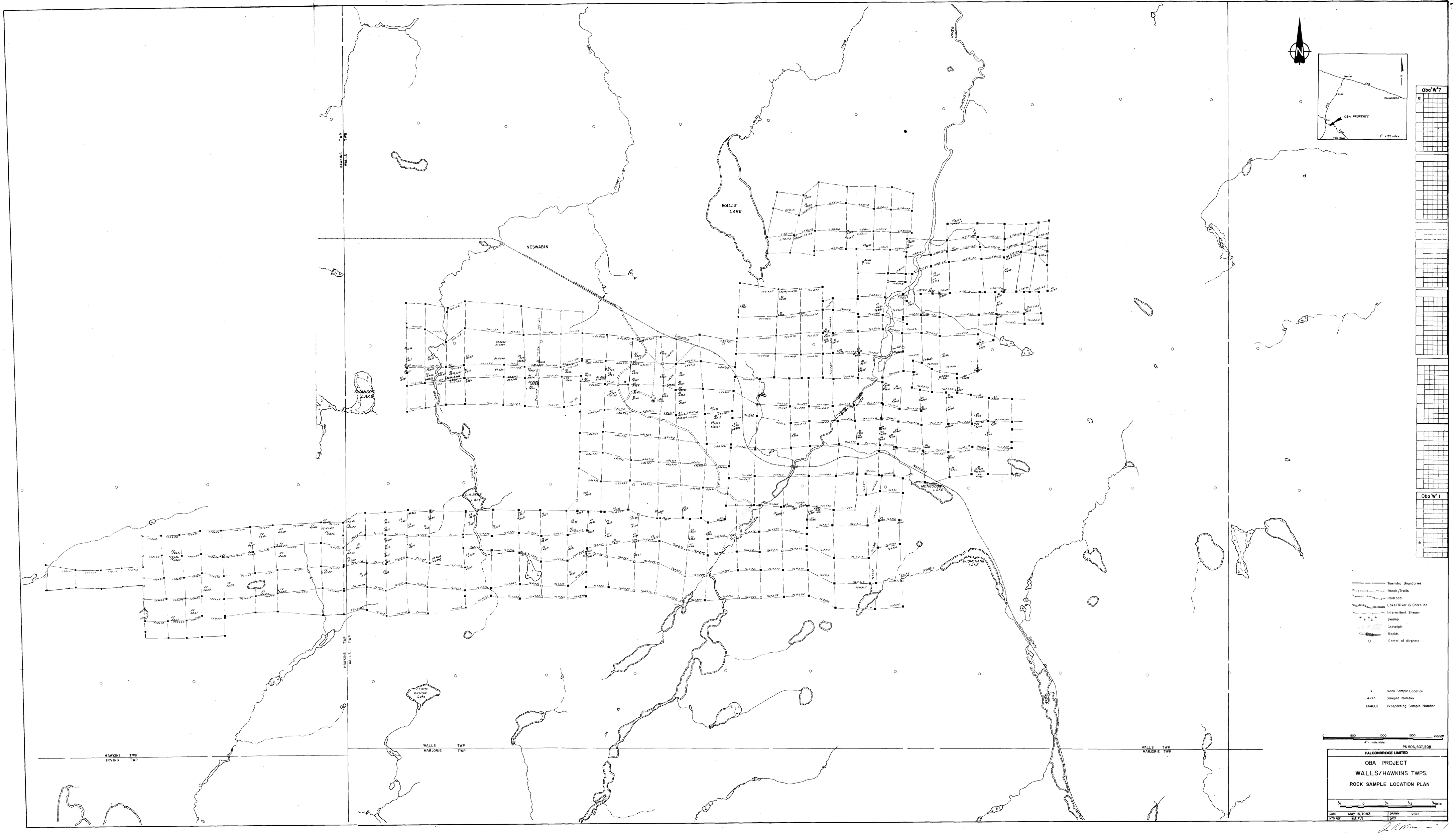
NESWABIN

WALLS LAKE

RIVER

CREEK

NESWABIN
WALLS LAKE
SWANSON LAKE
CULBERT LAKE
Little AKRON Lake
MONGOOSE LAKE
BOOMERANG LAKE
RIVER
PICHOGEN RIVER
Culbert
Creek
HAWKINS TWP
WALLS TWP
IRVING TWP
MARJORIE TWP
A
B
C
D
E
?
?
OBA PROPERTY
1" = 25 miles
Oba'W'7
Oba'W'1
b
e
Township Boundaries
Roads, Trails
Railroad
Lake/River & Shoreline
Intermittent Stream
Swamp
Gravelpit
Rapids
Center of Airphoto
2 Au (ppb) Values (Humus Samples)
NH Not Humus
Anomalies
5-9ppb Au Weakly Anomalous
> 10ppb Au Anomalous
0 500 1000 1500 2000M
4" = 1 mile Meter
PN 506, 507, 508
FALCONBRIDGE LIMITED
OBA PROJECT
WALLS/HAWKINS TWPS.
HUMUS SAMPLE GOLD VALUES
1/4 0 1/4 1/2 3/4 mile
DATE MAY 16, 1983
DRAWN VCH
NTS REF 42 F/1
DATA
2.675-1
11 May 1984



220

11 May 1984 #6757

OBA PROPERTY
1" = 25 miles
Oba'W'7
b
Oba'W'1
e
NESWABIN
WALLS LAKE
SWANSON LAKE
CULBERT LAKE
MONGOOSE LAKE
BOOMERANG LAKE
Little AKRON Lake
RICHOGEN
RIVER
GOAT RIVER
HAWKINS TWP
WALLS TWP
IRVING TWP
MARJORIE TWP
Township Boundaries
Roads, Trails
Railroad
Lake/River & Shoreline
Intermittent Stream
Swamp
Gravel pit
Rapids
Center of Airphoto
MAIN HORIZON
(Shenango-Taylor Extension)
8-18ppb Au
> 18ppb Au
x 8 Au (ppb) Values (Rock Samples)
•(37) Au Values (Prospecting Samples)
0 500 1000 1500 2000M
4" = 1 mile Meter
PN 506, 507, 508
FALCONBRIDGE LIMITED
OBA PROJECT
WALLS/HAWKINS TWPS.
ROCK SAMPLE GOLD VALUES
1/4 0 1/4 1/2 3/4 mile
DATE MAY 16, 1983
DRAWN VCH
NTS REF 42 F/1
DATA
11 May 1984
2.6751
230