



41009SE0006 2.9523 HUFFMAN

010

REPORT ON  
SOIL SAMPLING PROGRAMME

HUFFMAN TOWNSHIP  
PORCUPINE MINING DIVISION, ONTARIO

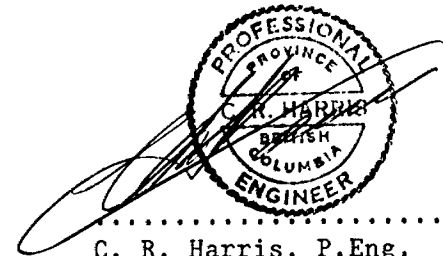
for

TONOPAH RESOURCES INC.

**RECEIVED**

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**MINING LANDS SECTION**



.....  
C. R. Harris, P.Eng.  
November 30, 1986



41009SE0006 2.9523 HUFFMAN

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## INTRODUCTION

At the request of Tonopah Resources Inc., the writer has prepared this brief report to summarize the results of their 1986 geochemical soil sampling program.

## SUMMARY

A total of 970 soil and humus samples were collected along 19.5 miles of prepared line during august 1986. Samples were analyzed for gold and arsenic.

No strong geochemical arsenic or gold anomalies were located by this survey although isolated high values were found and weakly anomalous trends appear to coincide with several geophysical anomalies located by previous work.

Although weak, this confirmation of the geophysics is very encouraging and further work is recommended to prospect the area by both trenching and short hole diamond drilling.

## PROPERTY

The property consists of 25 contiguous claim located in Huffman Tp. as shown on Figure 1.

The Claim numbers are:

P 683961  
P 688086 to 688096  
P 683182 & 683183  
P 683202  
P 684003 to 684012

The claims are owned by;

Tonopah Resources Inc.,  
1258 - 409 Granville Street,  
Vancouver, B. C. V6C 1T1  
Tel. 604 669 7628

### LOCATION & ACCESS

The property consists of 25, 40 acre claims in the southwest corner of Huffman Township. The claim block is about  $1\frac{1}{2}$  miles long, from east to west, and 1 mile wide. Figure 1 shows the location and arrangement of the claims.

The property may be reached from Timmins or Sudbury via Highway 144 and a series of logging roads which reach the south shore of Lake Opeepeesway and pass within one mile and a half of the western boundary of the claim block. The property is also accessible by float plane to a  $1\frac{1}{2}$  mile long lake joining the northwest corner of the claim block as well as by helicopter.

### TOPOGRAPHY & PHYSICAL

The area is typical of the Superior Province of the Precambrian Shield. It is relatively flat and forested and contains numerous small lakes and swampy areas. Several small streams drain northward into Lake Opeepeesway some  $\frac{1}{2}$  mile north of the claims.

Overburden is sandy and generally thin with poorly developed soil horizons.

### HISTORY

The claim area was undoubtedly prospected in the late 1930s following discovery of the Jerome Mine in Osway Township some  $2\frac{1}{2}$  miles to the northwest of the claims, Intermittent prospecting led to diamond drilling in 1966 by Falconbridge when three short holes were put down into an ironstone formation. Two of these had short intersections grading 0.46 % copper with low values in gold ( 0.015 oz/ton).

In august 1980, Geophysical Surveys Inc. of Quebec City conducted

# LOCATION AND CLAIM MAP TONAPAH RESOURCES INC. HUFFMAN TOWNSHIP ONTARIO



SCALE: 1 in. = 1/2 mi.

SCALE: 1 in. = 200 MI.

SCALE: 1 in. = 4 mi.

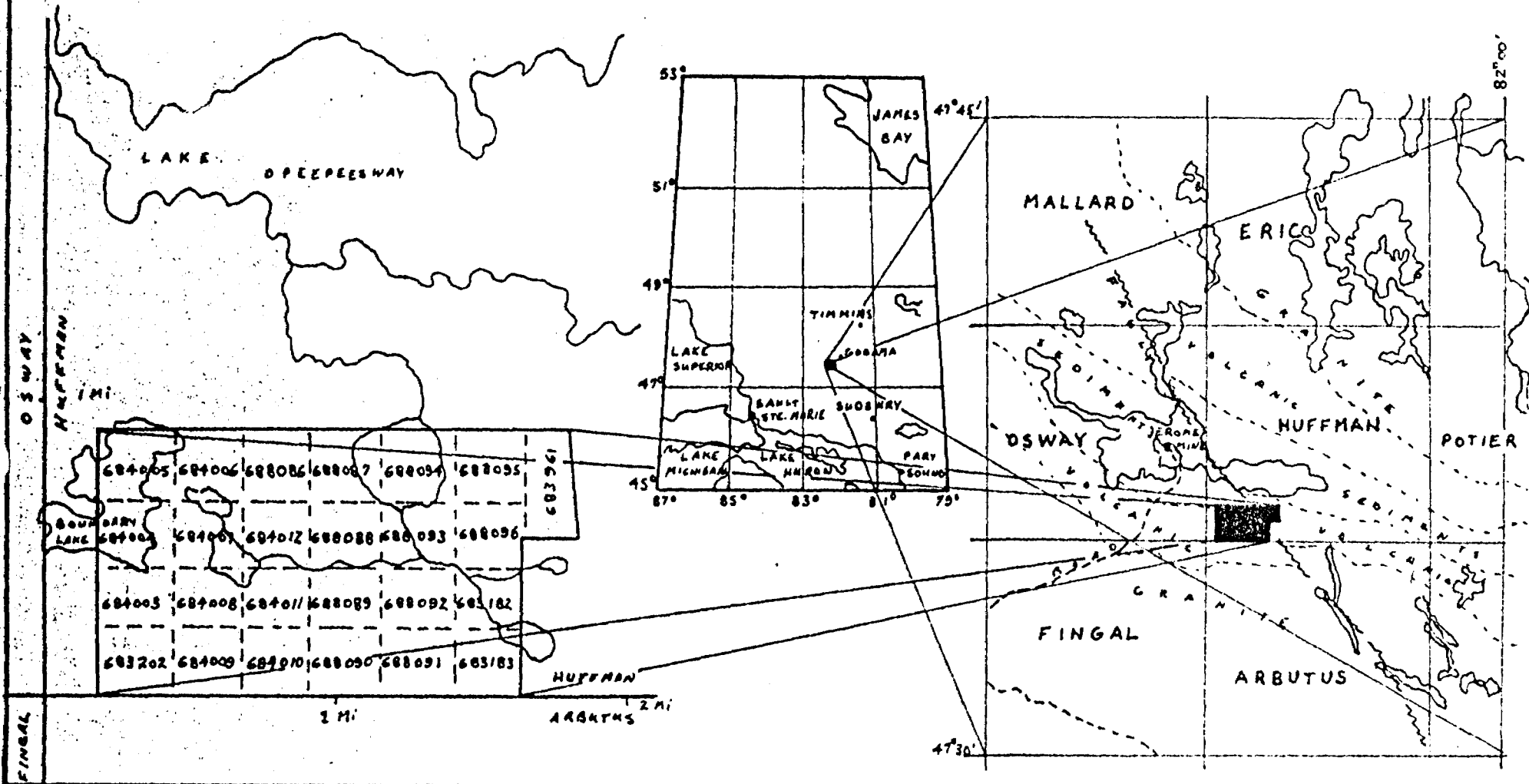


Figure 1.

a 2600 mile helicopter geophysical survey (REXHEM) over a large area which includes the claim block described in this report. In addition, the region was covered by a 741 mile fixed wing airborne survey (INPUT) by Questor Surveys of Mississauga in september of 1980.

In March & April of 1984, Tonopah Resources Inc. had a horizontal loop electromagnetic survey and a magnetometer survey carried out on the property. This was followed by a geological report prepared by John R. Boissoneault, P.Eng., in March 1986.

### GEOLOGY

The property lies within the Superior Province of the Precambrian Shield. A greenstone belt of isoclinally folded metavolcanics, pyroclastics and metasediments of Archean age crosses the region in a general direction of N 70° W. This belt is about seven miles wide where it enters Huffman Township from the west. The greenstone belt forms a large steeply dipping syncline (the Swayze Syncline) with the pyroclastics and meta sediments to the inside (younger) and the metavolcanics to the outside. It is intruded to the north and south by Archean granitic rocks of varying composition. All the rocks are cut by a set of major faults and younger diabase dikes trending NNW.

Locally, the claims lie along the southern limb of the Swayze Syncline. The metasediment-metavolcanic contact crosses the northern edge of the property, conforming to the volcanics. The strike of these formations is N 80° W and they lie in contact with thick metasediments to the north, and with regional granitic intrusives to the south.

A large fault zone crosses the central portion of the claim block in a N 45° W direction, displacing the eastern part of the metavolcanic belt about 3000 feet to the northwest.

Ironstone formations, containing low values in copper and gold occur on the property but it is mineralized shears expressed as magnetic lows which appear to have the greatest potential for higher grade gold mineralization.

## DESCRIPTION OF WORK

During the latter part of August 1986, Mid Canada Exploration of Timmins conducted a geochemical soil sampling survey for Tonopah Resources Inc. Using a previously established grid, a total of 970 soil samples were taken and assayed. The grid consists of a total of 19.5 miles of cut line with stations established every 100 feet along lines 400 feet apart. Sampling was at 100 foot intervals except over areas of geophysical anomalies where the spacing was reduced to 50 feet.

For the most part, samples were collected from the B soil horizon using small shovels and placed in kraft paper bags for shipment to Vancouver for assay. At many locations soils were only very poorly developed or entirely absent in which case organic and humic material was collected. Humic samples are identified on the assay sheets appended.

Samples were shipped to Min-En Laboratories of North Vancouver, B. C., and assayed for arsenic and gold by spectrophotometric and wet methods. The results are plotted and contoured on Figures 2 & 3

## DISCUSSION

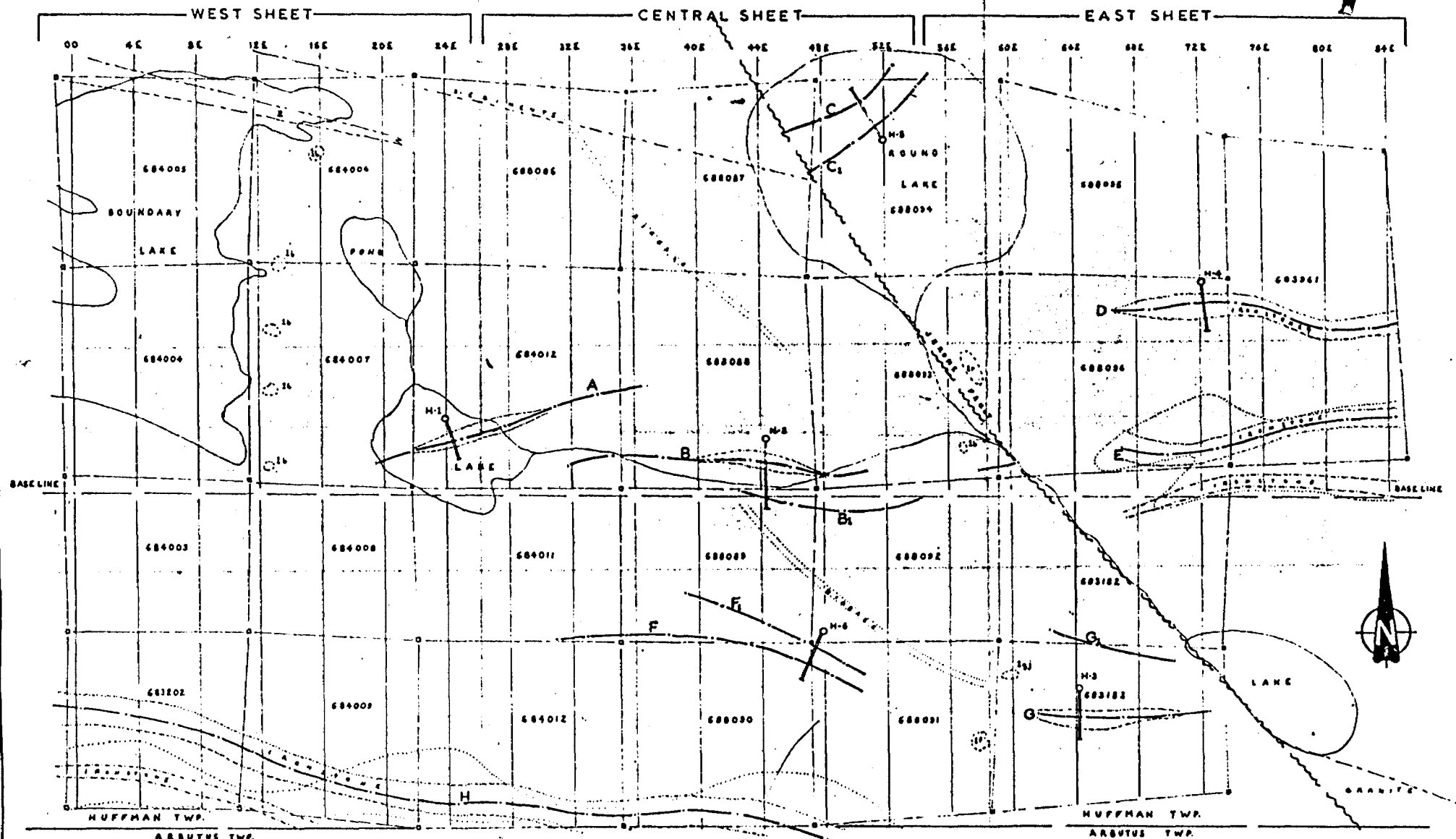
No truly strong geochemical anomalies are evident from the survey. Isolated high values were found but these do not show either lateral continuity or gradient over width. However, one possible structure showing coincident high gold and arsenic values occurs in the northwest corner of the block just to the east of Boundary Lake. This area does not correspond with any geophysical anomaly but should be checked by ground prospecting as it parallels a narrow felsic volcanic unit just to the north. A similar gold high near the south boundary along line 16 E should also be investigated as it corresponds more or less with a known ironstone formation

Low to moderate gold and arsenic anomalies ( Au > 15 ppb, As > 10 ppm ) occur more or less coincident with geophysical anomalies b and B1, F and F1, G and G1, shown on Figure 4. Although generally weak, these do provide added confirmation to the possibility of mineralized shears or fracture

Figure 4.

# GENERAL PLAN

SCALE: 1in.=400 ft.



**LEGEND**

- CLAIM LINE ————
- PICKET LINE - - - - -
- LAKE HOLE ~~~~~
- PROBABLE DRILL HOLE —○—
- OUTCROP (16)

**GEOPHYSICAL**

- AXIS OF CONDUCTIVITY ————
- CONDUCTOR WIDTH - - - - -
- MAGNETIC HIGH ······
- FAULT ~~~~~

**GEOLOGICAL**

- 16 MAGIC VOLCANIC, FOLIATED
- 17 MAGIC VOLCANIC, COARSE GRAINED
- 18 MAGIC VOLCANIC, MED GRAINED, QUARTZ VEINS
- 19 MAGIC VOLCANIC, HIGHLY SHEARED
- 2 FELSIC VOLCANIC, (LAPILLI)



TONAPAH RESOURCES INC.  
 GEOPHYSICAL SURVEY  
 HUFFMAN TOWNSHIP,  
 ONTARIO

Date: March 31, 1959



zones at these locations. A modest short hole drill program could easily test these possibilities.

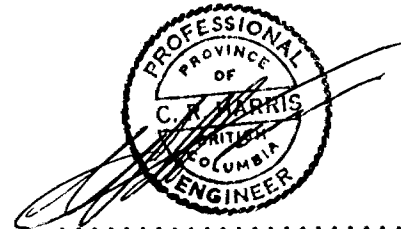
REFERENCES

1. John R. Boissoneault, Report on Electromagnetic (H.E.M.) and Magnetometer Survey, July 31, 1985.
2. John R. Boissoneault, Geological Report on Huffman Township Claims, March 17, 1986.

CERTIFICATE

I, Charles R. Harris, of 2709 Wembley Drive, North Vancouver, B. C.  
do hereby certify that:

1. I am a graduate of the University of British Columbia with a degree of Bachelor of Applied Science in Mining Engineering.
2. I am a registered member, in good standing, of the Association of Professional Engineers of B. C. and I have practiced my profession continuously for the past twenty two years.
3. I have no interest, direct or indirect, in the properties or securities of Tonopah Resources Inc., nor do I expect to receive any.



.....  
C. R. Harris, P.Eng.  
November 30, 1986

**MIN-EN LABORATORIES LTD.**  
*Specialists in Mineral Environments*  
 705 West 15th Street North Vancouver, B.C. Canada V7N 1T2

PHONE: (604) 980-5814 OR (604) 988-4524

TELEX: VIA USA 7601067 UC

**Certificate of GEOCHEM**

Company: MID CANADA EXPL.  
 Project:  
 Attention:

File: 62-350/P1  
 Date: SEPT 8/86  
 Type: SOIL GEOCHEM

We hereby certify the following results for samples submitted.

Sample Number	AS PPM	AU PPB	
LO 6N	6	5	
LO 5N	7	5	
LO 4N	5	10	
LO 3N	1	5	
LO 2N	2	5	
LO 1N	1	5	
LO BLO HUM	4	5	40MESH
LO 0+50S	1	15	
LO 18	3	5	
LO 1+50S	1	5	
LO 28	3	5	
LO 2+50S	1	20	
LO 38	1	5	
LO 48	2	5	
LO 58	1	5	
LO 68	1	10	
LO 78	1	5	
LO 88	1	5	
LO 98	1	5	
LO 108 HUM	1	10	40MESH
LO 118	1	5	40MESH
LO 128	2	10	
LO 138 HUM	2	5	40MESH
LO 13+50S HUM	5	5	20MESH
LO 148 HUM	17	10	20MESH
LO 14+50S	1	5	
LO 158 HUM	1	5	20MESH
LO 15+50S	1	5	
LO 168	2	5	
LO 16+50S	2	10	

Certified by

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**MIN-EN Laboratories Ltd.**

705 WEST 15th STREET,  
 NORTH VANCOUVER, B.C., CANADA V7M 1T2  
 TELEPHONE (604) 980-5814

**ANALYTICAL REPORT**

Project ..... Date of report Sept 12/86  
 File No. 62-350 ..... Date samples received August 25/86  
 Samples submitted by: .....  
 Company: Mid Canada Expl.  
 Report on: 970 ..... Geochem samples  
 ..... Assay samples

Copies sent to:

- Mid Canada Expl., c/o J. Laitin, Timmins, Ont.
- .....
- .....

Samples: Sieved to mesh -80 ..... Ground to mesh .....

Prepared samples stored  discarded

rejects stored  discarded

Methods of analysis: As-Spectrophotometric... Au-wet.

Remarks: .....

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Specialists in Mineral Environments  
705 West 15th Street North Vancouver, B.C. Canada V7M 1T2

PHONE: (604) 980-5814 OR (604) 988-4524

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Certificate of GEOCHEM

Company: MID CANADA EXPL.  
Project:  
Attention:

File: 62-350/P3  
Date: SEPT 8/86  
Type: SOIL GEOCHEM

We hereby certify the following results for samples submitted.

Sample Number	AS PPM	AU PPB	
L4E 16S	1	5	
L4E 16+50S	1	5	
L4E 17S	3	3	
L4E 17+50S	17	10	
L4E 18S	1	5	
L4E 18+50S	1	5	
L8E 3N	1	10	
L8E 2N	6	5	40MESH
L8E 1N	7	3	
L8E 0+00 HUM	1	5	20MESH
L8E 1S	1	5	
L8E 2S	4	5	
L8E 3S	1	10	
L8E 4S	1	10	
L8E 5S	1	5	
L8E 6S	1	5	
L8E 7S-1	1	5	
L8E 7S-2	1	3	
L8E 8S	1	5	
L8E 9S	1	5	
L8E 10S	2	10	
L8E 11S	1	5	
L8E 12S	1	5	
L8E 13S	1	10	
L8E 13+50S	3	10	
L8E 14S	4	5	
L8E 14+50S	2	5	
L8E 15S	3	5	
L8E 15+50S	2	10	

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Certificate of GEOCHEM

Company: MID CANADA EXPL.  
Project:  
Attention:

File: 62-350/P2  
Date: SEPT 8/86  
Type: SOIL GEOCHEM

We hereby certify the following results for samples submitted.

Sample Number	AS PPM	AU PPB	
L0 17S	1	5	
L0 17+50S	1	5	
L0 18S	2	15	
L0 18+50S	2	5	
L0 19S	1	10	
L4E 4+50N	1	10	
L4E 4N	2	5	
L4E 3N	11	5	
L4E 2N HUM	3	10	20MESH
L4E 1N	1	5	
L4E BLO	1	5	
L4E 1S	1	5	
L4E 2S	1	5	
L4E 3S	6	10	
L4E 4S	5	5	
L4E 5S	5	5	
L4E 6S	1	10	
L4E 7S	10	10	
L4E 8S	7	5	
L4E 9S HUM	2	5	20MESH
L4E 10S	2	5	
L4E 11S	3	5	
L4E 12S	4	5	20MESH
L4E 13S	6	10	
L4E 13+50S	4	5	
L4E 14S	11	5	40MESH
L4E 14+50S HUM	6	5	20MESH
L4E 15S	7	5	
L4E 15+50S	10	5	

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Company: MID CANADA EXPL.  
Project:  
Attention:

File: 62-350/P5  
Date: SEPT 9/86  
Type: SOIL GEOCHEM

We hereby certify the following results for samples submitted.

Sample Number	AS PPM	AU PPB	
L12E 21N	2	5	
L12E 22N	110	1300	40MESH
L12E BLO HUM	2	5	
L12E 18 HUM	4	10	40MESH
L12E 28 HUM	2	5	40MESH
L12E 38 HUM	1	5	40MESH
L12E 48 HUM	1	5	40MESH
L12E 58 HUM	2	10	20MESH
L12E 68 HUM	2	5	20MESH
L12E 78 HUM	3	5	20MESH
L12E 88 HUM	1	5	20MESH
L12E 98 HUM	1	5	20MESH
L12E 108 HUM	1	10	20MESH
L12E 118 HUM	1	5	20MESH
L12E 128 HUM	1	5	20MESH
L12E 138	1	5	
L12E 13+50S	1	10	
L12E 148	1	5	
L12E 14+50S	1	5	
L12E 158	1	5	
L12E 15+50S	1	10	
L12E 168 HUM	6	5	
L12E 16+50S HUM	3	5	40MESH
L12E 178 HUM	1	5	40MESH
L12E 17+50S HUM	1	10	40MESH
L12E 188	1	5	
L12E 18+50S	1	5	
L12E 198	1	5	
L12E 19+50S	1	5	20MESH
L12E 208	1	5	

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TELEX: VIA USA 7601067 UC

Certificate of GEOCHEM

Company: MID CANADA EXPL.  
Project:  
Attention:

File: 62-350/P4  
Date: SEPT 8/86  
Type: SOIL GEOCHEM

We hereby certify the following results for samples submitted.

Sample Number	AS PPM	AU PPB	
L8E 168 HUM	2	5	20MESH
L8E 16+50S HUM	1	10	20MESH
L8E 178	2	5	
L8E 17+50S	1	5	
L8E 188	1	5	
L8E 18+50S	1	5	
L8E 198	1	10	
L8E 19+50S	1	5	
L8E 208	2	10	
L12E 1N	1	5	
L12E 2N	3	5	
L12E 3N	1	5	
L12E 4N	1	3	
L12E 5N	3	5	
L12E 6N	7	5	
L12E 7N	1	10	
L12E 8N	4	5	
L12E 9N	1	5	
L12E 10N	2	5	
L12E 11N	1	10	
L12E 12N	3	5	
L12E 13N	1	5	
L12E 14N	5	10	
L12E 15N	27	5	
L12E 16N	425	5	
L12E 17N	13	5	
L12E 18N	14	5	
L12E 19N	3	5	
L12E 20N	5	5	

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**MIN-EN LABORATORIES LTD.**  
Specialists in Mineral Environments  
705 West 15th Street North Vancouver, B.C. Canada V7K 1T2

PHONE: (604) 980-5814 OR (604) 988-4524

TELEX: VIA USA 7601067 UC

Certificate of GEOCHEM

Company: MID CANADA EXPL.  
Project:  
Attention:

File: 62-350/P7  
Date: SEPT 10/86  
Type: SOIL GEOCHEM

We hereby certify the following results for samples submitted.

Sample Number	AS PPM	AU PPB	
L16E 5S	4	10	
L16E 6S	3	5	
L16E 7S	5	10	
L16E 8S	5	15	
L16E 9S	9	5	
L16E 10S	5	5	
L16E 11S	4	10	
L16E 12S	5	5	
L16E 13S	6	5	
L16E 13+50S	3	5	
L16E 14S	3	5	
L16E 14+50S	2	10	
L16E 15S	2	5	
L16E 15+50S	4	5	
L16E 16S	15	2500	
L16E 16+50S HUM	6	10	20MESH
L16E 17S HUM	4	5	20MESH
L16E 17+50S HUM	NES	10	
L16E 18S HUM	7	2	20MESH
L16E 18+50S HUM	8	10	20MESH
L16E 19S HUM	4	5	20MESH
L16E 19+50S HUM	4	5	20MESH
L16E 20S	14	5	
L20E 18N	9	5	
L20E 1N	6	10	
L20E 2N	10	5	40MESH
L20E 19N	6	5	
L20E 20N	139	100	
L20E 21N	8	5	40MESH
L20E 22N	6	5	

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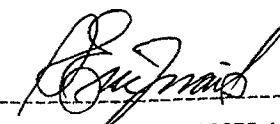
Company: MID CANADA EXPL.  
Project:  
Attention:

File: 62-350/P6  
Date: SEPT 9/86  
Type: SOIL GEOCHEM

We hereby certify the following results for samples submitted.

Sample Number	AS PPM	AU PPB	
L14E 14S	2	5	
L16E 1N	4	10	
L16E 2N	8	10	
L16E 3N	4	10	20MESH
L16E 4N	1	10	20MESH
L16E 5N	3	5	
L16E 6N	2	5	
L16E 7N	2	5	
L16E 8N	1	10	
L16E 9N	1	5	20MESH
L16E 10N	3	5	
L16E 11N	6	5	
L16E 12N	3	5	
L16E 13N HUM	3	10	
L16E 14N HUM	6	5	
L16E 15N	7	3	
L16E 17N	17	5	
L16E 18N	2	10	
L16E 19N HUM	1	5	
L16E 20N	3	5	
L16E 21N	1	10	
L16E 22N	1	5	
L16E 23N	2	5	
L16E 24N	2	5	
L16E BLO+00	3	5	
L16E 1B	2	5	
L16E 2B	2	3	
L16E 3B	3	10	
L16E 4B	3	5	

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*Specialists in Mineral Environments*  
 705 West 15th Street North Vancouver, B.C. Canada V7M 1T2

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TELEX: VIA USA 7601067 UC

Certificate of GEOCHEM

Company: MID CANADA EXPL.  
 Project:  
 Attention:

File: 62-350/P9  
 Date: SEPT 9/86  
 Type: SOIL GEOCHEM

We hereby certify the following results for samples submitted.

Sample Number	AS PPM	AU PPB	
L24E 13N	36	5	
L24E 14N	2	10	
L24E 15N	1	5	
L24E 16N	1	5	
L24E 17N	1	5	
L24E 18N	1	5	
L24E 19N	2	10	
L24E 20N	1	5	
L24E 21N	1	5	
L24E 22N	1	20	
L24E 23N	1	10	
L24E 25N HUM	1	20	
L24E 26N HUM	1	5	
L24E 1S	6	5	
L24E 2S	3	5	
L24E 3S	12	5	
L24E 4S	13	5	
L24E 5S	20	10	
L24E 6S	3	25	
L24E 7S	5	15	
L24E 8S	2	5	
L24E 9S	1	5	
L24E 10S	5	30	
L24E 11S	1	5	
L24E 12S	3	10	
L24E 14S	4	5	
L24E 15S	5	5	
L24E 16S HUM	2	5	20MESH
L24E 17S HUM	2	5	20MESH

Certified by \_\_\_\_\_

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*Specialists in Mineral Environments*  
 705 West 15th Street North Vancouver, B.C. Canada V7M 1T2

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TELEX: VIA USA 7601067 UC

Certificate of GEOCHEM

Company: MID CANADA EXPL.  
 Project:  
 Attention:

File: 62-350/P8  
 Date: SEPT 9/86  
 Type: SOIL GEOCHEM

We hereby certify the following results for samples submitted.

Sample Number	AS PPM	AU PPB	
L20E 23N	3	5	
L20E 24N	2	10	
L20E 25N	2	20	
L20E 26N	2	5	
L20E BLD+00	3	5	
L20E 1B	1	5	
L20E 2S	1	10	
L20E 3S	7	5	20MESH
L20E 4S	3	5	20MESH
L20E 5S	1	10	
L20E 6S	3	5	
L20E 8S	2	5	
L20E 9S	2	5	
L20E 10S	6	3	
L20E 11S	1	10	
L20E 12S	3	5	
L20E 13S	10	5	
L20E 14S	1	5	40MESH
L20E 15S	1	10	
L20E 16S	6	5	
L20E 17S HUM	1	5	20MESH
L20E 18S HUM	1	10	
L20E 19S HUM	1	5	
L20E 20S	2	5	
L20E 21S	1	5	
L24E 11N	1	5	
L24E 11+50N	1	10	
L24E 12N	4	5	
L24E 12+50N	2	5	

Certified by \_\_\_\_\_

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**MIN-EN LABORATORIES LTD.**

*Specialists in Mineral Environments*

705 West 15th Street North Vancouver, B.C. Canada V7H 1T2

PHONE: (604) 980-5814 DR (604) 988-4524

TELEX: VIA USA 7601067 UC

Certificate of GEOCHEM

Company: MID CANADA EXPL.

Project:

Attention:

File: 62-350/P11

Date: SEPT 9/86

Type: SOIL GEOCHEM

We hereby certify the following results for samples submitted.

Sample Number	AS PPM	AU PPB	
L28E 22N	1	5	
L28E 24N HUM	1	5	20MESH
L28E 25N	2	5	
L28E 26N	1	10	
L28E 5S	1	10	
L28E 6S	1	5	
L28E 7S	3	5	
L28E 8S	3	5	
L28E 9S	5	5	
L28E 10S	1	10	
L28E 11S	1	5	
L28E 12S	1	5	
L28E 13S-1S	4	10	
L28E 13S-2S	3	5	
L28E 14S	3	15	
L28E 15S	2	5	
L28E 16S	1	10	
L28E 17S HUM	4	5	
L28E 18S HUM	1	5	
L28E 19S	1	10	
L28E 20S	1	5	
L28E 21S	1	15	
L32E 30N	1	5	
L32E 1N	1	5	
L32E 1+50N	1	10	
L32E 2N	1	5	
L32E 2+50N	1	5	
L32E 3N	4	5	
L32E 3+50N	1	5	20MESH

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PHONE: (604) 980-5814 DR (604) 988-4524

TELEX: VIA USA 7601067 UC

Certificate of GEOCHEM

Company: MID CANADA EXPL.

Project:

Attention:

File: 62-350/P10

Date: SEPT 10/86

Type: SOIL GEOCHEM

We hereby certify the following results for samples submitted.

Sample Number	AS PPM	AU PPB	
L24E 18S HUM	1	20	20MESH
L24E 19S	1	5	
L24E 20S	3	5	
L24E 21S	1	5	
L24E 24S	1	5	
L28E 5N	4	5	
L28E 5+50N	3	5	
L28E 6N	1	3	
L28E 6+50N	3	10	
L28E 7N	4	5	
L28E 7+50N	4	5	
L28E 8N	1	5	
L28E 8+50N	2	10	
L28E 9N	2	15	40MESH
L28E 9+50N	16	130	
L28E 10N	5	5	
L28E 10+50N	2	5	
L28E 11N	5	5	
L28E 11+50N	1	10	
L28E 12N	2	5	
L28E 12+50N	12	5	
L28E 13N	6	5	
L28E 14N	1	5	
L28E 15N	2	10	
L28E 16N	4	5	
L28E 17N	6	5	
L28E 18N	48	15	
L28E 19N	5	5	
L28E 20N	3	15	40MESH
L28E 21N	2	5	

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PHONE: (604) 980-5814 DR (604) 988-4324

TELEX: VIA USA 7601067 UC

Certificate of GEOCHEM

Company: MID CANADA EXPL.

File: 62-350/P13

Project:

Date: SEPT 10/86

Attention:

Type: SOIL GEOCHEM

We hereby certify the following results for samples submitted.

Sample Number	AS PPM	AU PPB	
L32E 26+40N	1	5	
L32E BL.0	18	10	
L32E .50S	3	35	40MESH
L32E 18	4	5	
L32E 1+50S	1	5	
L32E 28	2	5	
L32E 2+50S	1	5	40MESH
L32E 36	3	30	
L32E 3+50S	2	5	
L32E 48	1	10	
L32E 4+50S	1	5	
L32E 58	2	5	
L32E 5+50S	4	5	
L32E 68	1	10	
L32E 78 HUM	3	5	20MESH
L32E 88 HUM	1	5	20MESH
L32E 98 HUM	1	5	20MESH
L32E 108 HUM	1	10	20MESH
L32E 118 HUM	1	15	20MESH
L32E 128 HUM	1	5	20MESH
L32E 138 HUM	1	5	20MESH
L32E 148 HUM	1	5	20MESH
L32E 158 HUM	1	5	20MESH
L32E 168 HUM	1	10	20MESH
L32E 178 HUM	1	5	20MESH
L32E 188 HUM	1	10	20MESH
L32E 198 HUM	1	15	20MESH
L32E 208 HUM	1	5	20MESH
L32E 218 HUM	1	5	20MESH

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PHONE: (604) 980-5814 DR (604) 988-4324

TELEX: VIA USA 7601067 UC

Certificate of GEOCHEM

Company: MID CANADA EXPL.

File: 62-350/P12

Project:

Date: SEPT 10/86

Attention:

Type: SOIL GEOCHEM

We hereby certify the following results for samples submitted.

Sample Number	AS PPM	AU PPB	
L32E 4N	2	5	
L32E 4+50N	6	5	
L32E 5N	3	10	40MESH
L32E 5+50N	1	5	
L32E 6N	2	5	
L32E 6+50N	1	5	
L32E 7N	3	10	
L32E 7+50N	4	5	
L32E 8N	1	5	
L32E 8+50N	4	20	
L32E 9N	1	5	
L32E 9+50N	6	5	
L32E 10N	1	10	
L32E 11N	1	5	
L32E 12N	4	5	
L32E 13N HUM	1	5	
L32E 14N HUM	1	5	20MESH
L32E 15N	20	5	
L32E 16-1N	1	10	
L32E 16-2N	1	5	
L32E 17N	3	25	
L32E 18N HUM	1	5	20MESH
L32E 19N	8	10	
L32E 20N	4	5	40MESH
L32E 21N	1	5	
L32E 22N	3	5	
L32E 23N	10	5	40MESH
L32E 24N	2	15	40MESH
L32E 25N	1	5	
L32E 26N	1	5	

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PHONE: (604) 980-5814 OR (604) 988-4524

TELEX: VIA USA 7601067 UC

Certificate of GEOCHEM

Company: MID CANADA EXPL.  
 Project:  
 Attention:

File: 62-350/P15  
 Date: SEPT 10/86  
 Type: SOIL GEOCHEM

We hereby certify the following results for samples submitted.

Sample Number	AS PPM	AU PPB	
L36E 25N	3	5	40MESH
L36E 26N	2	5	
L36E 26+35N	2	5	
L36E BL-0	3	10	
L36E .50S	3	5	
L36E 1S	4	5	
L36E 1+50S	6	20	
L36E 2S	3	5	
L36E 2+50S	23	5	
L36E 3S HUM	5	10	20MESH
L36E 3+50S	3	5	
L36E 4S HUM	1	5	20MESH
L36E 4+50S	4	10	
L36E 5S	1	5	
L36E 6S	1	5	
L36E 7S HUM	2	10	20MESH
L36E 8S HUM	8	5	
L36E 9S HUM	1	15	20MESH
L36E 10S HUM	3	5	20MESH
L36E 11S HUM	4	5	20MESH
L36E 12S HUM	2	5	20MESH
L36E 13S HUM	1	5	20MESH
L36E 14S HUM	1	10	20MESH
L36E 15S HUM	2	5	20MESH
L36E 16S HUM	1	5	20MESH
L36E 17S HUM	2	5	20MESH
L36E 18S HUM	1	5	20MESH
L36E 19S HUM	1	25	20MESH
L36E 20S HUM	1	5	20MESH
L36E 21S HUM	1	5	20MESH

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TELEX: VIA USA 7601067 UC

Certificate of GEOCHEM

Company: MID CANADA EXPL.  
 Project:  
 Attention:

File: 62-350/P14  
 Date: SEPT 10/86  
 Type: SOIL GEOCHEM

We hereby certify the following results for samples submitted.

Sample Number	AS PPM	AU PPB	
L36E .50N	2	10	
L36E 1N	2	5	40MESH
L36E 1+50N	1	5	40MESH
L36E 2N	2	10	
L36E 4N HUM	1	15	
L36E 4+50N	1	5	
L36E 5N	4	5	40MESH
L36E 5+50N	2	5	40MESH
L36E 6N	1	5	40MESH
L36E 6+50N	1	10	
L36E 7N	2	5	40MESH
L36E 7+50N	5	5	
L36E 8N	1	10	
L36E 8+50N	2	5	
L36E 9N	1	5	
L36E 9+50N	1	5	
L36E 10N HUM	1	10	20MESH
L36E 11N HUM	2	5	20MESH
L36E 12N HUM	1	20	20MESH
L36E 13N HUM	1	5	20MESH
L36E 14N HUM	1	5	20MESH
L36E 15N	2	10	
L36E 17N	1	5	
L36E 18N	2	5	40MESH
L36E 19N	3	5	40MESH
L36E 20N	1	10	
L36E 21N	2	5	
L36E 22N	1	5	
L36E 23N	1	5	
L36E 24N	3	5	

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TELEX: VIA USA 7601067 UC

Certificate of GEOCHEM

Company: MID CANADA EXPL.  
 Project:  
 Attention:

File: 62-350/P17  
 Date: SEPT 10/86  
 Type: SOIL GEOCHEM

We hereby certify the following results for samples submitted.

Sample Number	AS PPM	AU PPB	
L40E 22N	1	5	
L40E 23N	1	5	
L40E 24N	3	3	
L40E 25 HUM	2	10	
L40E 2+50S	1	5	
L40E 3S	17	5	
L40E 3+50S	3	5	
L40E 4S	2	10	
L40E 4+50S	4	10	
L40E 5S	5	10	
L40E 5+50S	3	5	
L40E 6S	5	5	
L40E 6+50S	2	10	
L40E 7S	5	15	
L40E 8S	1	750	
L40E 9S	1	5	
L40E 10S	1	10	
L40E 10-2S	3	5	
L40E 11S HUM	2	5	40MESH
L40E 12S HUM	2	10	20MESH
L40E 13S HUM	3	5	20MESH
L40E 14S HUM	1	5	20MESH
L40E 15S	1	10	40MESH
L40E 16S HUM	1	10	
L40E 17S HUM	1	15	
L40E 18S HUM	1	10	
L40E 19S HUM	1	5	
L40E 20S HUM	1	5	
L40E 21S	1	5	
L40E 21+60S	1	10	

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PHONE: (604) 980-5814 OR (604) 988-4524

TELEX: VIA USA 7601067 UC

Certificate of GEOCHEM

Company: MID CANADA EXPL.  
 Project:  
 Attention:

File: 62-350/P16  
 Date: SEPT 10/86  
 Type: SOIL GEOCHEM

We hereby certify the following results for samples submitted.

Sample Number	AS PPM	AU PPB	
L40E 2N HUM	14	5	20MESH
L40E 2+50N HUM	6	5	20MESH
L40E 3N HUM	9	10	20MESH
L40E 4N HUM	1	5	20MESH
L40E 3+50N HUM	25	5	
L40E 4+50N HUM	1	5	
L40E 5N	1	15	40MESH
L40E 5+50N	2	5	
L40E 6N	1	10	
L40E 6+50N	2	5	40MESH
L40E 7N	1	5	40MESH
L40E 7+50N	1	5	
L40E 8N	2	10	40MESH
L40E 8+50N	3	5	
L40E 9N	7	5	
L40E 9+50N	1	10	
L40E 10N	4	5	
L40E 10+50N HUM	1	5	20MESH
L40E 11N	2	5	
L40E 11+50N	1	10	
L40E 12N	1	5	
L40E 13N	1	5	
L40E 14N	1	5	
L40E 15N	6	10	
L40E 16N	2	5	
L40E 17N	1	5	
L40E 18N	1	10	
L40E 19N	1	5	
L40E 20N	3	5	
L40E 21N	4	5	

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PHONE: (604) 980-5814 OR (604) 988-4524

TELEX: VIA USA 7601067 UC

Certificate of GEOCHEM

Company: MID CANADA EXPL.  
Project:  
Attention:

File: 62-350/P19  
Date: SEPT 11/86  
Type: SOIL GEOCHEM

We hereby certify the following results for samples submitted.

Sample Number	AS PPM	AU PPB	
L44E 19N	3	10	
L44E 20N	5	5	40MESH
L44E 21N	4	20	20MESH
L44E 22N HUM	3	10	20MESH
L44E 23N HUM	3	5	20MESH
L44E 24N HUM	4	10	20MESH
L44E 25N	10	5	
L44E 26N	10	5	
L44E 26+40N	4	10	
L44E 1+50S	6	5	
L44E 2B	9	5	20MESH
L44E 2+50S	8	5	20MESH
L44E 3S	7	5	40MESH
L44E 3+50S	5	10	
L44E 4S	8	5	
L44E 4+50S	4	10	
L44E 5S	6	5	
L44E 5+50S	15	5	20MESH
L44E 6S	4	5	40MESH
L44E 6+50S	5	10	
L44E 7S	3	5	
L44E 7+50S	12	5	40MESH
L44E 8S	14	5	40MESH
L44E 8+50S HUM	4	3	20MESH
L44E 9S	18	5	20MESH
L44E 9+50S	25	10	40MESH
L44E 10S	21	5	
L44E 10+50S	8	5	
L44E 11S	7	5	
L44E 11+50S	5	10	

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TELEX: VIA USA 7601067 UC

Certificate of GEOCHEM

Company: MID CANADA EXPL.  
Project:  
Attention:

File: 62-350/P18  
Date: SEPT 11/86  
Type: SOIL GEOCHEM

We hereby certify the following results for samples submitted.

Sample Number	AS PPM	AU PPB	
L44E .50N HUM	5	5	
L44E 1N	5	3	
L44E 1+50N	2	10	
L44E 2N	4	5	
L44E 2+50N	3	5	
L44E 3N	2	5	
L44E 3+50N	2	10	
L44E 4N	10	5	
L44E 4+50N	5	5	40MESH
L44E 5N	6	5	20MESH
L44E 5+50N	3	5	20MESH
L44E 6N	4	5	20MESH
L44E 6+50N	4	5	
L44E 7N	3	10	
L44E 7+50N	3	5	
L44E 8N	7	5	
L44E 8+50N HUM	3	5	20MESH
L44E 9N HUM	10	10	20MESH
L44E 9+50N HUM	1	5	20MESH
L44E 10N	1	3	20MESH
L44E 10+50N	4	5	
L44E 11N	5	5	40MESH
L44E 11+50N	3	10	
L44E 12N	7	5	
L44E 13N	11	5	
L44E 14N	4	5	
L44E 15N	2	5	
L44E 16N	4	5	
L44E 17N	2	5	
L44E 18N	2	5	

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TELEX: VIA USA 7601067 UC

Certificate of GEOCHEM

Company: MID CANADA EXPL.  
 Project:  
 Attention:

File: 62-350/P20  
 Date: SEPT 11/86  
 Type: SOIL GEOCHEM

We hereby certify the following results for samples submitted.

Sample Number	AS PPM	AU PPB	
L44E 12S	4	10	
L44E 13S	13	5	
L44E 14S	10	5	40MESH
L44E 15S	2	5	
L44E 16S	3	10	
L44E 17S	9	5	
L44E 18S	6	5	40MESH
L44E 19S	7	5	
L44E 20S	8	10	
L44E 21S	6	5	
L44E 21+60S	8	5	
L48E .50N	15	5	
L48E 1N	30	950	
L48E 1+50N	28	5	
L48E 2N	8	5	
L48E 2+50N	14	10	
L48E 3N	9	5	
L48E 3+50N	8	5	
L48E 4N	12	10	
L48E 4+50N	9	5	
L48E 5N	9	5	
L48E 5+50N	30	5	
L48E 6N	8	3	
L48E 7N	7	5	
L48E 8N	12	10	
L48E 9N HUM	7	5	20MESH
L48E 10N HUM	6	10	20MESH
L48E 11N HUM	7	10	20MESH
L48E 12N	7	15	

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PHONE: (604) 980-5814 DR (604) 980-4524

TELEX: VIA USA 7601067 UC

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Company: MID CANADA EXPL.  
 Project:  
 Attention:

File: 62-350/P21  
 Date: SEPT 11/86  
 Type: SOIL GEOCHEM

We hereby certify the following results for samples submitted.

Sample Number	AS PPM	AU PPB	
L48E 13N	5	10	
L48E 14N	3	5	40MESH
L48E 15N	48	10	20MESH
L48E .50S	2	5	
L48E 1S	4	5	40MESH
L48E 1+50S	3	5	
L48E 2S	1	3	
L48E 2+50S	2	5	
L48E 3S HUM	1	5	20MESH
L48E 3+50S HUM	1	5	20MESH
L48E 4S	1	10	20MESH
L48E 4+50S	1	5	
L48E 5S	5	10	20MESH
L48E 5+50S	1	5	
L48E 6S	3	5	
L48E 6+50S	1	10	
L48E 7S	5	15	
L48E 8S	1	20	
L48E 8+50S HUM	1	5	20MESH
L48E 9S HUM	1	5	20MESH
L48E 9+50S HUM	1	10	
L48E 10S	1	5	
L48E 10+50S	1	5	
L48E 11S	1	5	
L48E 11+50S	1	10	40MESH
L48E 12S HUM	1	5	20MESH
L48E 13S	6	10	
L48E 14S	11	5	
L48E 15S	3	10	
L48E 16S	5	5	40MESH

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PHONE: (604) 980-5814 OR (604) 988-4524

TELEX: VIA USA 7601067 UC

Certificate of GEOCHEM

Company: MID CANADA EXPL.  
Project:  
Attention:

File: 62-350/P23  
Date: SEPT 11/86  
Type: SOIL GEOCHEM

We hereby certify the following results for samples submitted.

Sample Number	AS PPM	AU PPB	
L52E 15S	3	5	20MESH
L52E 16S HUM	1	5	
L52E 17S	1	5	
L52E 18S	2	5	
L52E 19S	2	5	40MESH
L52E 20S	1	10	
L52E 20+75S	2	5	40MESH
L56E 1N HUM	1	5	
L56E 2N	1	5	
L56E 3N	4	5	
L56E 4N	2	10	40MESH
L56E 5N	8	5	
L56E 7N	1	10	
L56E 8N	4	10	40MESH
L56E 9N	1	5	
L56E 10N	12	5	
L56E 11N	1	5	
L56E 12N	5	10	
L56E 13N	8	5	
L56E 14N	2	5	
L56E BLO HUM	2	5	40MESH
L56E 18	5	15	
L56E 2S HUM	4	5	20MESH
L56E 3S	2	5	20MESH
L56E 4S	7	5	
L56E 5S	3	5	
L56E 6S	1	5	40MESH
L56E 7S	7	5	
L56E 8S	1	5	

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Certificate of GEOCHEM

Company: MID CANADA EXPL.  
Project:  
Attention:

File: 62-350/P22  
Date: SEPT 11/86  
Type: SOIL GEOCHEM

We hereby certify the following results for samples submitted.

Sample Number	AS PPM	AU PPB	
L48E 17S	3	10	
L48E 18S HUM	1	10	20MESH
L48E 19S	1	5	40MESH
L48E 20S	1	5	
L48E 21S	1	5	
L48E 21+60S	5	10	
L52E 1N	3	5	
L52E 2N	1	5	
L52E 3N	11	10	40MESH
L52E 4N	5	5	
L52E 5N	5	10	
L52E 6N	10	10	
L52E 7N	17	10	
L52E 8N	3	5	
L52E 9N HUM	2	5	
L52E BLO	4	5	
L52E 1S	5	10	
L52E 2S	6	5	
L52E 3S	8	5	
L52E 4S	2	10	
L52E 5S	8	10	
L52E 6S HUM	7	5	20MESH
L52E 7S	16	5	
L52E 8S	6	5	20MESH
L52E 9S HUM	5	5	20MESH
L52E 10S	2	10	
L52E 11S	1	5	
L52E 12S	4	5	
L52E 13S	3	15	

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PHONE: (604) 980-5814 DR (604) 988-4524

TELEX: VIA USA 7601067 UC

Certificate of GEOCHEM

Company: MID CANADA EXPL.  
Project:  
Attention:

File: 62-350/P25  
Date: SEPT 12/86  
Type: SOIL GEOCHEM

We hereby certify the following results for samples submitted.

Sample Number	AS PPM	AU PPB	
L60E 2S	3	10	
L60E 3S	1	5	40MESH
L60E 4S	4	5	
L60E 5S HUM	6	15	20MESH
L60E 6S	3	5	
L60E 7S	21	5	40MESH
L60E 8S	6	5	20MESH
L60E 9S	3	5	40MESH
L60E 10S	20	5	
L60E 10+50S	15	5	
L60E 11S	4	5	
L60E 11+50S	3	5	
L60E 12S	15	5	
L60E 12+50S	5	10	
L60E 13S	3	5	
L60E 13+50S	8	5	
L60E 14S	12	5	
L60E 14+50S	13	5	
L60E 15S	12	5	
L60E 15+50S	10	5	
L60E 16S	4	5	
L60E 16+50S	8	5	
L60E 17S	16	5	
L60E 17+50S	6	10	
L60E 18S	4	5	
L60E 19S	10	5	
L60E 19+50S	4	5	

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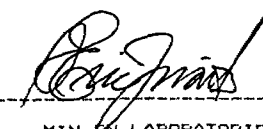
Company: MID CANADA EXPL.  
Project:  
Attention:

File: 62-350/P24  
Date: SEPT 11/86  
Type: SOIL GEOCHEM

We hereby certify the following results for samples submitted.

Sample Number	AS PPM	AU PPB	
L56E 9S	3	5	
L56E 10S	12	5	
L56E 11S	16	10	
L56E 12S	30	15	
L56E 13S	7	5	
L56E 14S	5	5	
L56E 15S	2	5	20MESH
L56E 16S	5	5	
L56E 17S	6	5	
L56E 18S	5	5	40MESH
L56E 19S	9	5	40MESH
L56E 20S HUM	1	10	20MESH
L60E 1N	21	5	
L60E 2N	5	5	
L60E 3N	3	5	
L60E 4N	4	10	
L60E 5N	6	5	40MESH
L60E 6N	1	5	
L60E 7N	7	5	
L60E 8N	3	5	
L60E 9N	6	5	20MESH
L60E 10N	6	15	
L60E 11N	3	10	
L60E 12N	7	10	
L60E 13N	10	5	
L60E 14N	4	10	
L60E 15N	6	5	
L60E BLO	7	5	
L60E 1S	6	5	

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Company: MID CANADA EXPL.  
Project:  
Attention:

File: 62-350/P27  
Date: SEPT 12/86  
Type: SOIL GEOCHEM

We hereby certify the following results for samples submitted.

Sample Number	AS PPM	AU PPB	
L64E 11+50S	4	5	
L64E 12S	5	10	40MESH
L64E 12+50S	4	5	
L64E 13S	10	5	
L64E 14S	8	5	
L64E 14+50S	4	10	
L64E 15S	1	5	
L64E 15+50S	6	20	40MESH
L64E 16S	5	5	
L64E 16+50S	2	10	
L64E 17S	2	5	40MESH
L64E 17+50S	3	5	
L64E 18S	9	5	20MESH
L64E 18+50S	3	10	
L64E 19S	2	5	
L68E .50N	3	5	
L68E 1N	2	5	40MESH
L68E 1+50N	3	5	
L68E 2N	3	10	40MESH
L68E 2+50N	4	5	
L68E 3N	6	5	40MESH
L68E 3+50N	4	5	
L68E 4N	3	5	40MESH
L68E 4+50N	3	5	
L68E 5N	4	10	40MESH
L68E 5+50N	5	5	
L68E 6N	5	5	40MESH
L68E 6+50N	8	10	40MESH
L68E 7N	2	5	

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Company: MID CANADA EXPL.  
Project:  
Attention:

File: 62-350/P26  
Date: SEPT 12/86  
Type: SOIL GEOCHEM

We hereby certify the following results for samples submitted.

Sample Number	AS PPM	AU PPB	
L64E 1N	6	5	40MESH
L64E 2N HUM	8	10	20MESH
L64E 3N	5	5	
L64E 4N	3	5	
L64E 5N	3	25	
L64E 6N	2	5	
L64E 7N	3	5	40MESH
L64E 8N	2	10	
L64E 9N	3	5	
L64E 10N	4	5	
L64E 11N	2	5	
L64E 12-1N	1	15	
L64E 12-2N	2	5	
L64E 13N	7	10	
L64E 13+50N	8	5	
L64E BL 0+00	8	5	
L64E 1S	3	5	40MESH
L64E 2S	3	5	
L64E 3S	1	25	
L64E 4S	1	15	40MESH
L64E 5S	2	5	40MESH
L64E 6S HUM	1	10	20MESH
L64E 7S	5	20	
L64E 8S	1	15	
L64E 8+50S	1	5	
L64E 9+00S	12	10	
L64E 9+50S	30	5	
L64E 10S	3	5	
L64E 10+50S	1	5	
L64E 11S	1	10	

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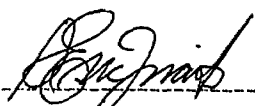
Company: MID CANADA EXPL.  
Project:  
Attention:

File: 62-350/P28  
Date: SEPT 12/86  
Type: SOIL GEOCHEM

We hereby certify the following results for samples submitted.

Sample Number	AS PPM	AU PPB	
L68E 7+50N	3	5	
L68E 8N	7	5	
L68E 9N	4	5	
L68E 10N	4	5	40MESH
L68E 11N	7	15	
L68E 12N	7	5	40MESH
L68E 13N	4	5	
L68E 14N HUM	3	5	20MESH
L68E 15N HUM	10	10	20MESH
L68E 16N HUM	4	5	20MESH
L68E 17N HUM	2	5	20MESH
L68E 18N HUM	4	10	20MESH
L68E 19N	3	10	
L68E 20N	4	5	
L68E 21N	8	5	
L68E 22N	4	5	
L68E 22+50N	3	5	
L68E BL 0+00	8	10	
L68E 1S	5	5	40MESH
L68E 2S HUM	6	5	20MESH
L68E 3S	7	5	40MESH
L68E 3+50S	5	5	20MESH
L68E 4+50S STREAM	9	5	40MESH
L68E 5S STREAM	11	5	20MESH
L68E 5+50S	8	5	40MESH
L68E 6S	3	10	
L68E 6+50S	6	5	
L68E 7S	4	5	
L68E 8S	5	5	
L68E 8+50S	7	5	

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Attention:

File: 62-350/P29  
Date: SEPT 12/86  
Type: SOIL GEOCHEM

We hereby certify the following results for samples submitted.

Sample Number	AS PPM	AU PPB	
L68E 9S	15	10	
L68E 9+50S	5	5	
L68E 10S	3	10	40MESH
L68E 10+50S	4	5	
L68E 11S	8	15	
L68E 11+50S	4	5	
L68E 12S	2	5	
L68E 12+50S	6	5	
L68E 13S	5	10	
L68E 13+50S	7	5	
L68E 14S	8	5	
L68E 14+50S	8	5	
L68E 15S	12	5	
L68E 15S	5	10	
L68E 16S	6	10	
L68E 16+50S	4	5	
L68E 17S	8	5	40MESH
L68E 17+50S	6	5	
L68E 18S	6	5	
L72E 0+50N	7	5	
L72E 1N	3	5	
L72E 1+50N	2	5	
L72E 2N	4	10	
L72E 2+50N HUM	3	5	20MESH
L72E 3N	6	5	
L72E 3+50N	4	5	
L72E 4N	3	5	
L72E 4+50N	3	5	
L72E 5N	4	5	

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Certificate of GEOCHEM

Company: MID CANADA EXPL.  
 Project:  
 Attention:

File: 62-350/P30  
 Date: SEPT 12/86  
 Type: SOIL GEOCHEM

We hereby certify the following results for samples submitted.

Sample Number	AS PPM	AU PPB	
L72E 5+50N	6	5	
L72E 6N	4	5	
L72E 6+50N	6	5	
L72E 7N	6	10	
L72E 7+50N	12	5	
L72E 8N	1	5	
L72E 8+50N	1	5	40MESH
L72E 9N	2	10	
L72E 9+50N	5	5	
L72E 10N	3	10	
L72E 10+50N	2	5	
L72E 11N	2	15	
L72E 11+50N	1	10	
L72E 12N	11	5	
L72E 12+50N	2	5	
L72E 13N	1	5	
L72E 13+50N	3	10	
L72E 14N	4	5	
L72E 15N	3	5	
L72E 16N	2	5	
L72E 17N	1	5	
L72E 18N	2	10	
L72E 19N	1	5	
L72E 20N	1	5	
L72E 21N	2	5	
L72E 22N	1	15	
L72E BLO HUM	10	5	20MESH
L72E 1S HUM	1	10	20MESH
L72E 2S HUM	27	5	20MESH
L72E 3S	2	5	

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Certificate of GEOCHEM

Company: MID CANADA EXPL.  
 Project:  
 Attention:

File: 62-350/P31  
 Date: SEPT 12/86  
 Type: SOIL GEOCHEM

We hereby certify the following results for samples submitted.

Sample Number	AS PPM	AU PPB	
L72E 4S	3	10	
L72E 5S	2	5	
L72E 6S	2	5	
L72E 7S	2	5	
L72E 8S	7	15	
L72E 9S	5	10	
L72E 10S	3	10	
L72E 11S	4	5	
L72E 12S	4	5	
L72E 13S	3	5	
L72E 14S	4	10	
L72E 15S	5	5	
L72E 16S	7	25	
L72E 17S	5	5	
L72E 18S	4	5	
L72E 1B+50S	6	10	
L76E .5N	7	5	
L76E 1N	6	5	
L76E 1+50N	6	10	
L76E 2N	7	5	
L76E 2+50N	5	5	
L76E 3N	7	10	
L76E 3+50N	3	5	
L76E 4N HUM	4	5	20MESH
L76E 5N	6	5	
L76E 6N	3	10	
L76E 7N	2	5	
L76E 8N	2	5	
L76E 9N	3	5	

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Certificate of GEOCHEM

Company: MID CANADA EXPL.  
Project:  
Attention:

File: 62-350/P32  
Date: SEPT 12/86  
Type: SDIL GEOCHEM

We hereby certify the following results for samples submitted.

Sample Number	AS PPM	AU PFB	
L76E 10N	6	5	
L76E 11N	2	10	
L76E 12N	3	10	
L76E 13N	8	5	
L76E 14N	3	5	
L76E 15N	9	5	
L76E 16N	10	30	
L76E 17N	5	10	
L76E 18N	4	5	
L76E 19N	14	5	
L76E 20N HUM	3	5	20MESH
L76E 21N HUM	3	10	20MESH
L76E 22N HUM	3	10	20MESH
L76 E BLO	7	5	
L80E 5N	15	5	
L80E 6N	3	5	
L80E 7N	7	10	
L80E 8N	4	5	
L80E 9N	4	5	
L80E 10N	6	5	
L80E 11N	15	10	
L80E 12N	4	5	
L80E 13N	3	5	
L80E 14N	4	5	
L80E 15N	6	5	
L80E 16N	3	10	
L80E 17N	8	5	
L80E 18N	3	5	
L80E 19N	10	5	

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TELEX: VIA USA 7601067 UC

Certificate of GEOCHEM

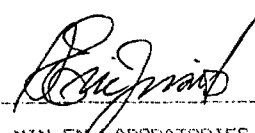
Company: MID CANADA EXPL.  
Project:  
Attention:

File: 62-350/P33  
Date: SEPT 12/86  
Type: SOIL GEOCHEM

We hereby certify the following results for samples submitted.

Sample Number	AS PPM	AU PFB	
L80E 20N	4	5	
L80E 21N	1	5	
L80E 22+20N	1	10	
L84E 2N	13	15	
L84E 3N	4	5	
L84E 4N	3	5	
L84E 5N HUM	2	5	20MESH
L84E 6N	3	5	
L84E 7N	2	10	
L84E 8N	2	5	
L84E 9N HUM	5	5	20MESH
L84E 10N HUM	1	5	20MESH
L84E 11N	1	10	
L84E 12N	1	5	
L84E 13N	4	5	
L84E 14N	3	10	
L84E 15N	3	5	
L84E 16N	4	5	
L84E 17N	4	5	
L84E 18N	5	10	
L84E 19N	10	5	
L84E 20N	11	5	
L84E 21N	2	5	
L84E 22N HUM	6	10	20MESH
L44E BLO	2	5	20MESH
L44E 0+50S	3	5	
L44E 1+0S	6	5	
L48E 7+50S	3	5	
L68E 4+0S	3	5	40MESH

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Company: MID CANADA EXPL.

Project:

Attention:

File: 62-350/P1

Date: SEPT 8/86

Type: SOIL GEOCHEM

We hereby certify the following results for samples submitted.

Sample Number	AS PPM	AU PPB	
LD 6N	6	5	
LD 5N	7	5	
LD 4N	5	10	
LD 3N	1	5	
LD 2N	2	5	
LD 1N	1	5	
LD BLO HUM	4	5	40MESH
LD 0+50S	1	15	
LD 1S	3	5	
LD 1+50S	1	5	
LD 2S	3	5	
LD 2+50S	1	20	
LD 3S	1	5	
LD 4S	2	5	
LD 5S	1	5	
LD 6S	1	10	
LD 7S	1	5	
LD 8S	1	5	
LD 9S	1	5	
LD 10S HUM	1	10	40MESH
LD 11S	1	5	40MESH
LD 12S	2	10	
LD 13S HUM	2	5	40MESH
LD 13+50S HUM	5	5	20MESH
LD 14S HUM	17	10	20MESH
LD 14+50S	1	5	
LD 15S HUM	1	5	20MESH
LD 15+50S	1	5	
LD 16S	2	5	
LD 16+50S	2	10	

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TELEX: VIA USA 7601067 UC

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Company: MID CANADA EXPL.

File: 62-350/P2

Project:

Date: SEPT 8/86

Attention:

Type: SOIL GEOCHEM

We hereby certify the following results for samples submitted.

Sample Number	AS PPM	AU PPB	
LD 17S	1	5	
LD 17+50S	1	5	
LD 18S	2	15	
LD 18+50S	2	5	
LD 19S	1	10	
L4E 4+50N	1	10	
L4E 4N	2	5	
L4E 3N	11	5	
L4E 2N HUM	3	10	20MESH
L4E 1N	1	5	
L4E BLD	1	5	
L4E 1S	1	5	
L4E 2S	1	5	
L4E 3S	6	10	
L4E 4S	5	5	
L4E 5S	5	5	
L4E 6S	1	10	
L4E 7S	10	10	
L4E 8S	7	5	
L4E 9S HUM	2	5	20MESH
L4E 10S	2	5	
L4E 11S	3	5	
L4E 12S	4	5	20MESH
L4E 13S	6	10	
L4E 13+50S	4	5	
L4E 14S	11	5	40MESH
L4E 14+50S HUM	6	5	20MESH
L4E 15S	7	5	
L4E 15+50S	10	5	

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Company: MID CANADA EXPL.  
Project:  
Attention:

File: 62-350/P3  
Date: SEPT 8/86  
Type: SOIL GEOCHEM

We hereby certify the following results for samples submitted.

Sample Number	AS PPM	ALU PPB	
L4E 16S	1	5	
L4E 16+50S	1	5	
L4E 17S	3	3	
L4E 17+50S	17	10	
L4E 18S	1	5	
L4E 18+50S	1	5	
L8E 3N	1	10	
L8E 2N	6	5	40MESH
L8E 1N	7	3	
L8E 0+00 HUM	1	5	20MESH
L8E 1S	1	5	
L8E 2S	4	5	
L8E 3S	1	10	
L8E 4S	1	10	
L8E 5S	1	5	
L8E 6S	1	5	
L8E 7S-1	1	5	
L8E 7S-2	1	5	
L8E 8S	1	5	
L8E 9S	1	5	
L8E 10S	2	10	
L8E 11S	1	5	
L8E 12S	1	5	
L8E 13S	1	10	
L8E 13+50S	3	10	
L8E 14S	4	5	
L8E 14+50S	2	5	
L8E 15S	3	5	
L8E 15+50S	2	10	

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Company: MID CANADA EXPL.  
Project:  
Attention:

File: 62-350/P4  
Date: SEPT 8/86  
Type: SOIL GEOCHEM

We hereby certify the following results for samples submitted.

Sample Number	AS PPM	AU PPB	
LBE 16S HUM	2	5	20MESH
LBE 16+50S HUM	1	10	20MESH
LBE 17S	2	5	
LBE 17+50S	1	5	
LBE 18S	1	5	
LBE 18+50S	1	5	
LBE 19S	1	10	
LBE 19+50S	1	5	
LBE 20S	2	10	
L12E 1N	1	5	
L12E 2N	3	5	
L12E 3N	1	5	
L12E 4N	1	3	
L12E 5N	3	5	
L12E 6N	7	5	
L12E 7N	1	10	
L12E 8N	4	5	
L12E 9N	1	5	
L12E 10N	2	5	
L12E 11N	1	10	
L12E 12N	3	5	
L12E 13N	1	5	
L12E 14N	5	10	
L12E 15N	27	5	
L12E 16N	425	5	
L12E 17N	13	5	
L12E 18N	14	5	
L12E 19N	3	5	
L12E 20N	5	5	

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PHONE: (604) 980-5814 OR (604) 988-4524

TELEX: VIA USA 7601067 UC

**Certificate of GEOCHEM**

Company: MID CANADA EXPL.  
Project:  
Attention:

File: 62-350/P5  
Date: SEPT 9/86  
Type: SOIL GEOCHEM

We hereby certify the following results for samples submitted.

Sample Number	AS PPM	AU PPB	
L12E 21N	2	5	
L12E 22N	110	1300	40MESH
L12E BLD HUM	2	5	
L12E 1S HUM	4	10	40MESH
L12E 2S HUM	2	5	40MESH
L12E 3S HUM	1	5	40MESH
L12E 4S HUM	1	5	40MESH
L12E 5S HUM	2	10	20MESH
L12E 6S HUM	2	5	20MESH
L12E 7S HUM	3	5	20MESH
L12E 8S HUM	1	5	20MESH
L12E 9S HUM	1	5	20MESH
L12E 10S HUM	1	10	20MESH
L12E 11S HUM	1	5	20MESH
L12E 12S HUM	1	5	20MESH
L12E 13S	1	5	
L12E 13+50S	1	10	
L12E 14S	1	5	
L12E 14+50S	1	5	
L12E 15S	1	5	
L12E 15+50S	1	10	
L12E 16S HUM	6	5	
L12E 16+50S HUM	3	5	40MESH
L12E 17S HUM	1	5	40MESH
L12E 17+50S HUM	1	10	40MESH
L12E 18S	1	5	
L12E 18+50S	1	5	
L12E 19S	1	5	
L12E 19+50S	1	5	20MESH
L12E 20S	1	5	

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TELEX: VIA USA 7601067 UC

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Company: MID CANADA EXPL.

Project:

Attention:

File: 62-350/P6

Date: SEPT 9/86

Type: SOIL GEOCHEM

We hereby certify the following results for samples submitted.

Sample Number	AS PPM	AU PPB	
L14E 14S	2	5	
L16E 1N	4	10	
L16E 2N	8	10	
L16E 3N	4	10	20MESH
L16E 4N	1	10	20MESH
L16E 5N	3	5	
L16E 6N	2	5	
L16E 7N	2	5	
L16E 8N	1	10	
L16E 9N	1	5	20MESH
L16E 10N	3	5	
L16E 11N	6	5	
L16E 12N	3	5	
L16E 13N HUM	3	10	
L16E 14N HUM	6	5	
L16E 15N	7	3	
L16E 17N	17	5	
L16E 18N	2	10	
L16E 19N HUM	1	5	
L16E 20N	3	5	
L16E 21N	1	10	
L16E 22N	1	5	
L16E 23N	2	5	
L16E 24N	2	5	
L16E BLD+00	3	5	
L16E 1S	2	5	
L16E 2S	2	3	
L16E 3S	3	10	
L16E 4S	3	5	

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Project:  
Attention:

File: 62-350/P7  
Date: SEPT 10/86  
Type: SOIL GEOCHEM

We hereby certify the following results for samples submitted.

Sample Number	AS PPM	AU PPB	
L16E 5S	4	10	
L16E 6S	3	5	
L16E 7S	5	10	
L16E 8S	5	15	
L16E 9S	9	5	
L16E 10S	5	5	
L16E 11S	4	10	
L16E 12S	5	5	
L16E 13S	6	5	
L16E 13+50S	3	5	
L16E 14S	3	5	
L16E 14+50S	2	10	
L16E 15S	2	5	
L16E 15+50S	4	5	
L16E 16S	15	2500	
L16E 16+50S HUM	6	10	20MESH
L16E 17S HUM	4	5	20MESH
L16E 17+50S HUM	NES	10	
L16E 18S HUM	7	2	20MESH
L16E 18+50S HUM	8	10	20MESH
L16E 19S HUM	4	5	20MESH
L16E 19+50S HUM	4	5	20MESH
L16E 20S	14	5	
L20E 18N	9	5	
L20E 1N	6	10	
L20E 2N	10	5	40MESH
L20E 19N	6	5	
L20E 20N	139	100	
L20E 21N	8	5	40MESH
L20E 22N	6	5	

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TELEX: VIA USA 7601067 UC

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Company: MID CANADA EXPL.  
Project:  
Attention:

File: 62-350/PB  
Date: SEPT 9/86  
Type: SOIL GEOCHEM

We hereby certify the following results for samples submitted.

Sample Number	AS PPM	AU PPB	
L20E 23N	3	5	
L20E 24N	2	10	
L20E 25N	2	20	
L20E 26N	2	5	
L20E BLD+00	3	5	
L20E 1S	1	5	
L20E 2S	1	10	
L20E 3S	7	5	20MESH
L20E 4S	3	5	20MESH
L20E 5S	1	10	
L20E 6S	3	5	
L20E 8S	2	5	
L20E 9S	2	5	
L20E 10S	6	3	
L20E 11S	1	10	
L20E 12S	3	5	
L20E 13S	10	5	
L20E 14S	1	5	40MESH
L20E 15S	1	10	
L20E 16S	6	5	
L20E 17S HUM	1	5	20MESH
L20E 18S HUM	1	10	
L20E 19S HUM	1	5	
L20E 20S	2	5	
L20E 21S	1	5	
L24E 11N	1	5	
L24E 11+50N	1	10	
L24E 12N	4	5	
L24E 12+50N	2	5	

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Project:  
Attention:

File: 62-350/P9  
Date: SEPT 9/86  
Type: SOIL GEOCHEM

We hereby certify the following results for samples submitted.

Sample Number	AS PPM	AU PPB	
L24E 13N	36	5	
L24E 14N	2	10	
L24E 15N	1	5	
L24E 16N	1	5	
L24E 17N	1	5	
L24E 18N	1	5	
L24E 19N	2	10	
L24E 20N	1	5	
L24E 21N	1	5	
L24E 22N	1	20	
L24E 23N	1	10	
L24E 25N HUM	1	20	
L24E 26N HUM	1	5	
L24E 1S	6	5	
L24E 2S	3	5	
L24E 3S	12	5	
L24E 4S	13	5	
L24E 5S	20	10	
L24E 6S	3	25	
L24E 7S	5	15	
L24E 8S	2	5	
L24E 9S	1	5	
L24E 10S	5	30	
L24E 11S	1	5	
L24E 12S	3	10	
L24E 14S	4	5	
L24E 15S	5	5	
L24E 16S HUM	2	5	20MESH
L24E 17S HUM	2	5	20MESH

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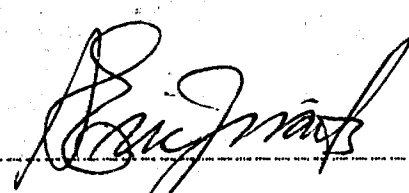
Company: MID CANADA EXPL.  
Project:  
Attention:

File: 62-350/P10  
Date: SEPT 10/86  
Type: SOIL GEOCHEM

We hereby certify the following results for samples submitted.

Sample Number	AS PPM	AU PPB	
L24E 18S HUM	1	20	20MESH
L24E 19S	1	5	
L24E 20S	3	5	
L24E 21S	1	5	
L24E 24S	1	5	
L28E 5N	4	5	
L28E 5+50N	3	5	
L28E 6N	1	3	
L28E 6+50N	3	10	
L28E 7N	4	5	
L28E 7+50N	4	5	
L28E 8N	1	5	
L28E 8+50N	2	10	
L28E 9N	2	15	40MESH
L28E 9+50N	16	130	
L28E 10N	5	5	
L28E 10+50N	2	5	
L28E 11N	5	5	
L28E 11+50N	1	10	
L28E 12N	2	5	
L28E 12+50N	12	5	
L28E 13N	6	5	
L28E 14N	1	5	
L28E 15N	2	10	
L28E 16N	4	5	
L28E 17N	6	5	
L28E 18N	48	15	
L28E 19N	5	5	
L28E 20N	3	15	40MESH
L28E 21N	2	5	

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Project:  
Attention:

File: 62-350/P11  
Date: SEPT 9/86  
Type: SOIL GEOCHEM

We hereby certify the following results for samples submitted.

Sample Number	AS PPM	AU PPB	
L28E 22N	1	5	
L28E 24N HUM	1	5	20MESH
L28E 25N	2	5	
L28E 26N	1	10	
L28E 5S	1	10	
L28E 6S	1	5	
L28E 7S	3	5	
L28E 8S	3	5	
L28E 9S	5	5	
L28E 10S	1	10	
L28E 11S	1	5	
L28E 12S	1	5	
L28E 13S-1S	4	10	
L28E 13S-2S	3	5	
L28E 14S	3	15	
L28E 15S	2	5	
L28E 16S	1	10	
L28E 17S HUM	4	5	
L28E 18S HUM	1	5	
L28E 19S	1	10	
L28E 20S	1	5	
L28E 21S	1	15	
L32E 50N	1	5	
L32E 1N	1	5	
L32E 1+50N	1	10	
L32E 2N	1	5	
L32E 2+50N	1	5	
L32E 3N	4	5	
L32E 3+50N	1	5	20MESH

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Company: MID CANADA EXPL.

File: 62-350/P12

Project:

Date: SEPT 10/86

Attention:

Type: SOIL GEOCHEM

We hereby certify the following results for samples submitted:

Sample Number	AS PPM	AU PPB	
L32E 4N	2	5	
L32E 4+50N	6	5	
L32E 5N	3	10	40MESH
L32E 5+50N	1	5	
L32E 6N	2	5	
L32E 6+50N	1	5	
L32E 7N	3	10	
L32E 7+50N	4	5	
L32E 8N	1	5	
L32E 8+50N	4	20	
L32E 9N	1	5	
L32E 9+50N	6	5	
L32E 10N	1	10	
L32E 11N	1	5	
L32E 12N	4	5	
L32E 13N HUM	1	5	
L32E 14N HUM	1	5	20MESH
L32E 15N	20	5	
L32E 16-1N	1	10	
L32E 16-2N	1	5	
L32E 17N	3	25	
L32E 18N HUM	1	5	20MESH
L32E 19N	8	10	
L32E 20N	4	5	40MESH
L32E 21N	1	5	
L32E 22N	3	5	
L32E 23N	10	5	40MESH
L32E 24N	2	15	40MESH
L32E 25N	1	5	
L32E 26N	1	5	

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Company: MID CANADA EXPL.  
Project:  
Attention:

File: 62-350/P13  
Date: SEPT 10/86  
Type: SOIL GEOCHEM

We hereby certify the following results for samples submitted.

Sample Number	AS PPM	AU PPB	
L32E 26+40N	1	5	
L32E BL.0	18	10	
L32E .50S	3	35	40MESH
L32E 1S	4	5	
L32E 1+50S	1	5	
L32E 2S	2	5	
L32E 2+50S	1	5	40MESH
L32E 3S	3	30	
L32E 3+50S	2	5	
L32E 4S	1	10	
L32E 4+50S	1	5	
L32E 5S	2	5	
L32E 5+50S	4	5	
L32E 6S	1	10	
L32E 7S HUM	3	5	20MESH
L32E 8S HUM	1	5	20MESH
L32E 9S HUM	1	5	20MESH
L32E 10S HUM	1	10	20MESH
L32E 11S HUM	1	15	20MESH
L32E 12S HUM	1	5	20MESH
L32E 13S HUM	1	5	20MESH
L32E 14S HUM	1	5	20MESH
L32E 15S HUM	1	5	20MESH
L32E 16S HUM	1	10	20MESH
L32E 17S HUM	1	5	20MESH
L32E 18S HUM	1	10	20MESH
L32E 19S HUM	1	15	20MESH
L32E 20S HUM	1	5	20MESH
L32E 21S HUM	1	5	20MESH

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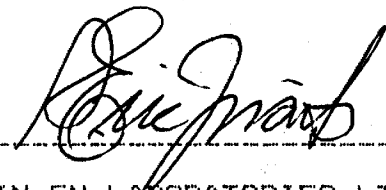
Company: MID CANADA EXPL.  
Project:  
Attention:

File: 62-350/P14  
Date: SEPT 10/86  
Type: SOIL GEOCHEM

We hereby certify the following results for samples submitted.

Sample Number	AS PPM	AU PPB	
L36E .50N	2	10	
L36E 1N	2	5	40MESH
L36E 1+50N	1	5	40MESH
L36E 2N	2	10	
L36E 4N HUM	1	15	
L36E 4+50N	1	5	
L36E 5N	4	5	40MESH
L36E 5+50N	2	5	40MESH
L36E 6N	1	5	40MESH
L36E 6+50N	1	10	
L36E 7N	2	5	40MESH
L36E 7+50N	5	5	
L36E 8N	1	10	
L36E 8+50N	2	5	
L36E 9N	1	5	
L36E 9+50N	1	5	
L36E 10N HUM	1	10	20MESH
L36E 11N HUM	2	5	20MESH
L36E 12N HUM	1	20	20MESH
L36E 13N HUM	1	5	20MESH
L36E 14N HUM	1	5	20MESH
L36E 15N	2	10	
L36E 17N	1	5	
L36E 18N	2	5	40MESH
L36E 19N	3	5	40MESH
L36E 20N	1	10	
L36E 21N	2	5	
L36E 22N	1	5	
L36E 23N	1	5	
L36E 24N	3	5	

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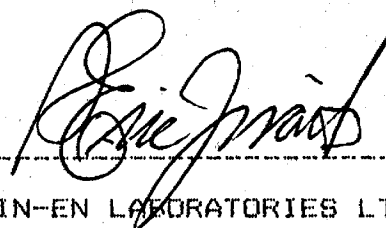
Company: MID CANADA EXPL.  
Project:  
Attention:

File: 62-350/P15  
Date: SEPT 10/86  
Type: SOIL GEOCHEM

We hereby certify the following results for samples submitted.

Sample Number	AS PPM	AU PPB	
L36E 25N	3	5	40MESH
L36E 26N	2	5	
L36E 26+35N	2	5	
L36E BL-0	3	10	
L36E .50S	3	5	
L36E 1S	4	5	
L36E 1+50S	6	20	
L36E 2S	3	5	
L36E 2+50S	23	5	
L36E 3S HUM	5	10	20MESH
L36E 3+50S	3	5	
L36E 4S HUM	1	5	20MESH
L36E 4+50S	4	10	
L36E 5S	1	5	
L36E 6S	1	5	
L36E 7S HUM	2	10	20MESH
L36E 8S HUM	8	5	
L36E 9S HUM	1	15	20MESH
L36E 10S HUM	3	5	20MESH
L36E 11S HUM	4	5	20MESH
L36E 12S HUM	2	5	20MESH
L36E 13S HUM	1	5	20MESH
L36E 14S HUM	1	10	20MESH
L36E 15S HUM	2	5	20MESH
L36E 16S HUM	1	5	20MESH
L36E 17S HUM	2	5	20MESH
L36E 18S HUM	1	5	20MESH
L36E 19S HUM	1	25	20MESH
L36E 20S HUM	1	5	20MESH
L36E 21S HUM	1	5	20MESH

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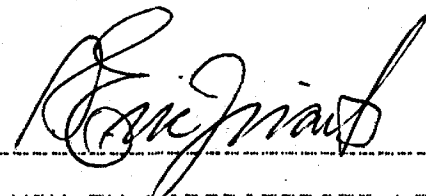
Company: MID CANADA EXPL.  
Project:  
Attention:

File: 62-350/P16  
Date: SEPT 10/86  
Type: SOIL GEOCHEM

We hereby certify the following results for samples submitted.

Sample Number	AS PPM	AU PPB	
L40E 2N HUM	14	5	20MESH
L40E 2+50N HUM	6	5	20MESH
L40E 3N HUM	9	10	20MESH
L40E 4N HUM	1	5	20MESH
L40E 3+50N HUM	25	5	
L40E 4+50N HUM	1	5	
L40E 5N	1	15	40MESH
L40E 5+50N	2	5	
L40E 6N	1	10	
L40E 6+50N	2	5	40MESH
L40E 7N	1	5	40MESH
L40E 7+50N	1	5	
L40E 8N	2	10	40MESH
L40E 8+50N	3	5	
L40E 9N	7	5	
L40E 9+50N	1	10	
L40E 10N	4	5	
L40E 10+50N HUM	1	5	20MESH
L40E 11N	2	5	
L40E 11+50N	1	10	
L40E 12N	1	5	
L40E 13N	1	5	
L40E 14N	1	5	
L40E 15N	6	10	
L40E 16N	2	5	
L40E 17N	1	5	
L40E 18N	1	10	
L40E 19N	1	5	
L40E 20N	3	5	
L40E 21N	4	5	

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Company: MID CANADA EXPL.  
Project:  
Attention:

File: 62-350/P17  
Date: SEPT 10/86  
Type: SOIL GEOCHEM

We hereby certify the following results for samples submitted.

Sample Number	AS PPM	AU PPB	
L40E 22N	1	5	
L40E 23N	1	5	
L40E 24N	3	3	
L40E 2S HUM	2	10	
L40E 2+50S	1	5	
L40E 3S	17	5	
L40E 3+50S	3	5	
L40E 4S	2	10	
L40E 4+50S	4	10	
L40E 5S	5	10	
L40E 5+50S	3	5	
L40E 6S	5	5	
L40E 6+50S	2	10	
L40E 7S	5	15	
L40E 8S	1	750	
L40E 9S	1	5	
L40E 10S	1	10	
L40E 10-2S	3	5	
L40E 11S HUM	2	5	40MESH
L40E 12S HUM	2	10	20MESH
L40E 13S HUM	3	5	20MESH
L40E 14S HUM	1	5	20MESH
L40E 15S	1	10	40MESH
L40E 16S HUM	1	10	
L40E 17S HUM	1	15	
L40E 18S HUM	1	10	
L40E 19S HUM	1	5	
L40E 20S HUM	1	5	
L40E 21S	1	5	
L40E 21+60S	1	10	

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TELEX: VIA USA 7601067 UC

Certificate of GEOCHEM

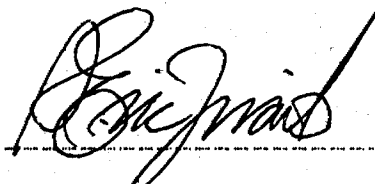
Company: MID CANADA EXPL.  
Project:  
Attention:

File: 62-350/P18  
Date: SEPT 11/86  
Type: SOIL GEOCHEM

We hereby certify the following results for samples submitted.

Sample Number	AS PPM	ALU PFB	
L44E .50N HUM	5	5	
L44E 1N	5	3	
L44E 1+50N	2	10	
L44E 2N	4	5	
L44E 2+50N	3	5	
L44E 3N	2	5	
L44E 3+50N	2	10	
L44E 4N	10	5	
L44E 4+50N	5	5	40MESH
L44E 5N	6	5	20MESH
L44E 5+50N	3	5	20MESH
L44E 6N	4	5	20MESH
L44E 6+50N	4	5	
L44E 7N	3	10	
L44E 7+50N	3	5	
L44E 8N	7	5	
L44E 8+50N HUM	3	5	20MESH
L44E 9N HUM	10	10	20MESH
L44E 9+50N HUM	1	5	20MESH
L44E 10N	1	3	20MESH
L44E 10+50N	4	5	
L44E 11N	5	5	40MESH
L44E 11+50N	3	10	
L44E 12N	7	5	
L44E 13N	11	5	
L44E 14N	4	5	
L44E 15N	2	5	
L44E 16N	4	5	
L44E 17N	2	5	
L44E 18N	2	5	

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Company: MID CANADA EXPL.

Project:

Attention:

File: 62-350/P19

Date: SEPT 11/86

Type: SOIL GEOCHEM

We hereby certify the following results for samples submitted.

Sample Number	AS PPM	AU PPB	
L44E 19N	3	10	
L44E 20N	5	5	40MESH
L44E 21N	4	20	20MESH
L44E 22N HUM	3	10	20MESH
L44E 23N HUM	3	5	20MESH
L44E 24N HUM	4	10	20MESH
L44E 25N	10	5	
L44E 26N	10	5	
L44E 26+40N	4	10	
L44E 1+50S	6	5	
L44E 2S	9	5	20MESH
L44E 2+50S	8	5	20MESH
L44E 3S	7	5	40MESH
L44E 3+50S	5	10	
L44E 4S	8	5	
L44E 4+50S	4	10	
L44E 5S	6	5	
L44E 5+50S	15	5	20MESH
L44E 6S	4	5	40MESH
L44E 6+50S	5	10	
L44E 7S	3	5	
L44E 7+50S	12	5	40MESH
L44E 8S	14	5	40MESH
L44E 8+50S HUM	4	3	20MESH
L44E 9S	18	5	20MESH
L44E 9+50S	25	10	40MESH
L44E 10S	21	5	
L44E 10+50S	8	5	
L44E 11S	7	5	
L44E 11+50S	5	10	

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Project:

Attention:

File: 62-350/P20

Date: SEPT 11/86

Type: SOIL GEOCHEM

We hereby certify the following results for samples submitted.

Sample Number	AS PPM	AU PPB	
L44E 12S	4	10	
L44E 13S	13	5	
L44E 14S	10	5	40MESH
L44E 15S	2	5	
L44E 16S	3	10	
L44E 17S	9	5	
L44E 18S	6	5	40MESH
L44E 19S	7	5	
L44E 20S	8	10	
L44E 21S	6	5	
L44E 21+60S	8	5	
L48E .50N	15	5	
L48E 1N	30	950	
L48E 1+50N	28	5	
L48E 2N	8	5	
L48E 2+50N	14	10	
L48E 3N	9	5	
L48E 3+50N	8	5	
L48E 4N	12	10	
L48E 4+50N	9	5	
L48E 5N	9	5	
L48E 5+50N	30	5	
L48E 6N	8	3	
L48E 7N	7	5	
L48E 8N	12	10	
L48E 9N HUM	7	5	20MESH
L48E 10N HUM	6	10	20MESH
L48E 11N HUM	7	10	20MESH
L48E 12N	7	15	

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Project:

Attention:

File: 62-350/P21

Date: SEPT 11/86

Type: SOIL GEOCHEM

We hereby certify the following results for samples submitted.

Sample Number	AS PPM	AU PPB	
L48E 13N	5	10	
L48E 14N	3	5	40MESH
L48E 15N	48	10	20MESH
L48E 150S	2	5	
L48E 1S	4	5	40MESH
L48E 1+50S	3	5	
L48E 2S	1	3	
L48E 2+50S	2	5	
L48E 3S HUM	1	5	20MESH
L48E 3+50S HUM	1	5	20MESH
L48E 4S	1	10	20MESH
L48E 4+50S	1	5	
L48E 5S	5	10	20MESH
L48E 5+50S	1	5	
L48E 6S	3	5	
L48E 6+50S	1	10	
L48E 7S	5	15	
L48E 8S	1	20	
L48E 8+50S HUM	1	5	20MESH
L48E 9S HUM	1	5	20MESH
L48E 9+50S HUM	1	10	
L48E 10S	1	5	
L48E 10+50S	1	5	
L48E 11S	1	5	
L48E 11+50S	1	10	40MESH
L48E 12S HUM	1	5	20MESH
L48E 13S	6	10	
L48E 14S	11	5	
L48E 15S	3	10	
L48E 16S	5	5	40MESH

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Attention:

File: 62-350/P22

Date: SEPT 11/86

Type: SOIL GEOCHEM

We hereby certify the following results for samples submitted.

Sample Number	AS PPM	AU PPB	
L48E 17S	3	10	
L48E 18S HUM	1	10	20MESH
L48E 19S	1	5	40MESH
L48E 20S	1	5	
L48E 21S	1	5	
L48E 21+60S	5	10	
L52E 1N	3	5	
L52E 2N	1	5	
L52E 3N	11	10	40MESH
L52E 4N	5	5	
L52E 5N	5	10	
L52E 6N	10	10	
L52E 7N	17	10	
L52E 8N	3	5	
L52E 9N HUM	2	5	
L52E BLO	4	5	
L52E 1S	5	10	
L52E 2S	6	5	
L52E 3S	8	5	
L52E 4S	2	10	
L52E 5S	8	10	
L52E 6S HUM	7	5	20MESH
L52E 7S	16	5	
L52E 8S	6	5	20MESH
L52E 9S HUM	5	5	20MESH
L52E 10S	2	10	
L52E 11S	1	5	
L52E 12S	4	5	
L52E 13S	3	15	

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Attention:

File: 62-350/P23  
Date: SEPT 11/86  
Type: SOIL GEOCHEM

We hereby certify the following results for samples submitted.

Sample Number	AS PPM	AU PPB	
L52E 15S	3	5	20MESH
L52E 16S HUM	1	5	
L52E 17S	1	5	
L52E 18S	2	5	
L52E 19S	2	5	40MESH
L52E 20S	1	10	
L52E 20+75S	2	5	40MESH
L56E 1N HUM	1	5	
L56E 2N	1	5	
L56E 3N	4	5	
L56E 4N	2	10	40MESH
L56E 5N	8	5	
L56E 7N	1	10	
L56E 8N	4	10	40MESH
L56E 9N	1	5	
L56E 10N	12	5	
L56E 11N	1	5	
L56E 12N	5	10	
L56E 13N	8	5	
L56E 14N	2	5	
L56E BLO HUM	2	5	40MESH
L56E 1S	5	15	
L56E 2S HUM	4	5	20MESH
L56E 3S	2	5	20MESH
L56E 4S	7	5	
L56E 5S	3	5	
L56E 6S	1	5	40MESH
L56E 7S	7	5	
L56E 8S	1	5	

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Attention:

File: 62-350/P24  
Date: SEPT 11/86  
Type: SOIL GEOCHEM

We hereby certify the following results for samples submitted.

Sample Number	AS PPM	AU PPB	
L56E 9S	3	5	
L56E 10S	12	5	
L56E 11S	16	10	
L56E 12S	30	15	
L56E 13S	7	5	
L56E 14S	5	5	
L56E 15S	2	5	20MESH
L56E 16S	5	5	
L56E 17S	6	3	
L56E 18S	5	5	40MESH
L56E 19S	9	5	40MESH
L56E 20S HUM	1	10	20MESH
L60E 1N	21	5	
L60E 2N	5	5	
L60E 3N	3	5	
L60E 4N	4	10	
L60E 5N	6	5	40MESH
L60E 6N	1	5	
L60E 7N	7	5	
L60E 8N	3	5	
L60E 9N	6	5	20MESH
L60E 10N	6	15	
L60E 11N	3	10	
L60E 12N	7	10	
L60E 13N	10	5	
L60E 14N	4	10	
L60E 15N	6	5	
L60E BLD	7	5	
L60E 1S	6	5	

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Project:  
Attention:

File: 62-350/P25  
Date: SEPT 12/86  
Type: SOIL GEOCHEM

We hereby certify the following results for samples submitted.

Sample Number	AS PPM	AU PPB	
L60E 2S	3	10	
L60E 3S	1	5	40MESH
L60E 4S	4	5	
L60E 5S HUM	6	15	20MESH
L60E 6S	3	5	
L60E 7S	21	5	40MESH
L60E 8S	6	5	20MESH
L60E 9S	3	5	40MESH
L60E 10S	20	5	
L60E 10+50S	15	5	
L60E 11S	4	5	
L60E 11+50S	3	5	
L60E 12S	15	5	
L60E 12+50S	5	10	
L60E 13S	3	5	
L60E 13+50S	8	5	
L60E 14S	12	5	
L60E 14+50S	13	5	
L60E 15S	12	5	
L60E 15+50S	10	5	
L60E 16S	4	5	
L60E 16+50S	8	5	
L60E 17S	16	5	
L60E 17+50S	6	10	
L60E 18S	4	5	
L60E 19S	10	5	
L60E 19+50S	4	5	

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Company: MID CANADA EXPL.  
Project:  
Attention:

File: 62-350/P26  
Date: SEPT 12/86  
Type: SOIL GEOCHEM

We hereby certify the following results for samples submitted.

Sample Number	AS PPM	AU PPB	
L64E 1N	6	5	40MESH
L64E 2N HUM	8	10	20MESH
L64E 3N	5	5	
L64E 4N	3	5	
L64E 5N	3	25	
L64E 6N	2	5	
L64E 7N	3	5	40MESH
L64E 8N	2	10	
L64E 9N	3	5	
L64E 10N	4	5	
L64E 11N	2	5	
L64E 12-1N	1	15	
L64E 12-2N	2	5	
L64E 13N	7	10	
L64E 13+50N	8	5	
L64E BL 0+00	8	5	
L64E 1S	3	5	40MESH
L64E 2S	3	5	
L64E 3S	1	25	
L64E 4S	1	15	40MESH
L64E 5S	2	5	40MESH
L64E 6S HUM	1	10	20MESH
L64E 7S	5	20	
L64E 8S	1	15	
L64E 8+50S	1	5	
L64E 9+00S	12	10	
L64E 9+50S	30	5	
L64E 10S	3	5	
L64E 10+50S	1	5	
L64E 11S	1	10	

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Company: MID CANADA EXPL.  
Project:  
Attention:

File: 62-350/P27  
Date: SEPT 12/86  
Type: SOIL GEOCHEM

We hereby certify the following results for samples submitted.

Sample Number	AS PPM	AU PPB	
L64E 11+50S	4	5	
L64E 12S	5	10	40MESH
L64E 12+50S	4	5	
L64E 13S	10	5	
L64E 14S	8	5	
L64E 14+50S	4	10	
L64E 15S	1	5	
L64E 15+50S	6	20	40MESH
L64E 16S	5	5	
L64E 16+50S	2	10	
L64E 17S	2	5	40MESH
L64E 17+50S	3	5	
L64E 18S	9	5	20MESH
L64E 18+50S	3	10	
L64E 19S	2	5	
L68E .50N	3	5	
L68E 1N	2	5	40MESH
L68E 1+50N	3	5	
L68E 2N	3	10	40MESH
L68E 2+50N	4	5	
L68E 3N	6	5	40MESH
L68E 3+50N	4	5	
L68E 4N	3	5	40MESH
L68E 4+50N	3	5	
L68E 5N	4	10	40MESH
L68E 5+50N	5	5	
L68E 6N	5	5	40MESH
L68E 6+50N	8	10	40MESH
L68E 7N	2	5	

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Company: MID CANADA EXPL.  
Project:  
Attention:

File: 62-350/P2B  
Date: SEPT 12/86  
Type: SOIL GEOCHEM

We hereby certify the following results for samples submitted.

Sample Number	AS PPM	AU PPB	
L68E 7+50N	3	5	
L68E 8N	7	5	
L68E 9N	4	5	
L68E 10N	4	5	40MESH
L68E 11N	7	15	
L68E 12N	7	5	40MESH
L68E 13N	4	5	
L68E 14N HUM	3	5	20MESH
L68E 15N HUM	10	10	20MESH
L68E 16N HUM	4	5	20MESH
L68E 17N HUM	2	5	20MESH
L68E 18N HUM	4	10	20MESH
L68E 19N	3	10	
L68E 20N	4	5	
L68E 21N	8	5	
L68E 22N	4	5	
L68E 22+50N	3	5	
L68E BL 0+00	8	10	
L68E 1S	5	5	40MESH
L68E 2S HUM	6	5	20MESH
L68E 3S	7	5	40MESH
L68E 3+50S	5	5	20MESH
L68E 4+50S STREAM	9	5	40MESH
L68E 5S STREAM	11	5	20MESH
L68E 5+50S	8	5	40MESH
L68E 6S	3	10	
L68E 6+50S	6	5	
L68E 7S	4	5	
L68E 8S	5	5	
L68E 8+50S	7	5	

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Company: MID CANADA EXPL.  
Project:  
Attention:

File: 62-350/P29  
Date: SEPT 12/86  
Type: SOIL GEOCHEM

We hereby certify the following results for samples submitted.

Sample Number	AS PPM	AU PPB	
L68E 9S	15	10	
L68E 9+50S	5	5	
L68E 10S	3	10	40MESH
L68E 10+50S	4	5	
L68E 11S	8	15	
L68E 11+50S	4	5	
L68E 12S	2	5	
L68E 12+50S	6	5	
L68E 13S	5	10	
L68E 13+50S	7	5	
L68E 14S	8	5	
L68E 14+50S	8	5	
L68E 15S	12	5	
L68E 15S	5	10	
L68E 16S	6	10	
L68E 16+50S	4	5	
L68E 17S	8	5	40MESH
L68E 17+50S	6	5	
L68E 18S	6	5	
L72E 0+50N	7	5	
L72E 1N	3	5	
L72E 1+50N	2	5	
L72E 2N	4	10	
L72E 2+50N HUM	3	5	20MESH
L72E 3N	6	5	
L72E 3+50N	4	5	
L72E 4N	3	5	
L72E 4+50N	3	5	
L72E 5N	4	5	

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Company: MID CANADA EXPL.

File: 62-350/P30

Project:

Date: SEPT 12/86

Attention:

Type: SOIL GEOCHEM

We hereby certify the following results for samples submitted.

Sample Number	AS PPM	AU PPB	
L72E 5+50N	6	5	
L72E 6N	4	5	
L72E 6+50N	6	5	
L72E 7N	6	10	
L72E 7+50N	12	5	
L72E 8N	1	5	
L72E 8+50N	1	5	40MESH
L72E 9N	2	10	
L72E 9+50N	5	5	
L72E 10N	3	10	
L72E 10+50N	2	5	
L72E 11N	2	15	
L72E 11+50N	1	10	
L72E 12N	11	5	
L72E 12+50N	2	5	
L72E 13N	1	5	
L72E 13+50N	3	10	
L72E 14N	4	5	
L72E 15N	3	5	
L72E 16N	2	5	
L72E 17N	1	5	
L72E 18N	2	10	
L72E 19N	1	5	
L72E 20N	1	5	
L72E 21N	2	5	
L72E 22N	1	15	
L72E BLO HUM	10	5	20MESH
L72E 1S HUM	1	10	20MESH
L72E 2S HUM	27	5	20MESH
L72E 3S	2	5	

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Company: MID CANADA EXPL.  
Project:  
Attention:

File: 62-350/P31  
Date: SEPT 12/86  
Type: SOIL GEOCHEM

We hereby certify the following results for samples submitted.

Sample Number	AS PPM	AU PPB
L72E 4S	3	10
L72E 5S	2	5
L72E 6S	2	5
L72E 7S	2	5
L72E 8S	7	15
L72E 9S	5	10
L72E 10S	3	10
L72E 11S	4	5
L72E 12S	4	5
L72E 13S	3	5
L72E 14S	4	10
L72E 15S	5	5
L72E 16S	7	25
L72E 17S	5	5
L72E 18S	4	5
L72E 18+50S	6	10
L76E .5N	7	5
L76E 1N	6	5
L76E 1+50N	6	10
L76E 2N	7	5
L76E 2+50N	5	5
L76E 3N	7	10
L76E 3+50N	3	5
L76E 4N HLIM	4	5
L76E 5N	6	5
L76E 6N	3	10
L76E 7N	2	5
L76E 8N	2	5
L76E 9N	3	5

ZOMESH

Certified by \_\_\_\_\_

MIN-EN LABORATORIES LTD.

MIN-EN LABORATORIES LTD.

Specialists in Mineral Environments

705 West 15th Street North Vancouver, B.C. Canada V7M 1T2

PHONE: (604) 980-5814 OR (604) 988-4524

TELEX: VIA USA 7601067 UC

Certificate of GEOCHEM

Company: MID CANADA EXPL.

File: 62-350/P32

Project:

Date: SEPT 12/86

Attention:

Type: SOIL GEOCHEM

We hereby certify the following results for samples submitted.

Sample Number	AS PPM	AU FPB	
L76E 10N	6	5	
L76E 11N	2	10	
L76E 12N	3	10	
L76E 13N	8	5	
L76E 14N	3	5	
L76E 15N	9	5	
L76E 16N	10	30	
L76E 17N	5	10	
L76E 18N	4	5	
L76E 19N	14	5	
L76E 20N HUM	3	5	20MESH
L76E 21N HUM	3	10	20MESH
L76E 22N HUM	3	10	20MESH
L76 E BLO	7	5	
LBOE 5N	15	5	
LBOE 6N	3	5	
LBOE 7N	7	10	
LBOE 8N	4	5	
LBOE 9N	4	5	
LBOE 10N	6	5	
LBOE 11N	15	10	
LBOE 12N	4	5	
LBOE 13N	3	5	
LBOE 14N	4	5	
LBOE 15N	6	5	
LBOE 16N	3	10	
LBOE 17N	8	5	
LBOE 18N	3	5	
LBOE 19N	10	5	

Certified by \_\_\_\_\_

MIN-EN LABORATORIES LTD.

MIN-EN LABORATORIES LTD.

Specialists in Mineral Environments

705 West 15th Street North Vancouver, B.C. Canada V7M 1T2

PHONE: (604)980-5814 OR (604)988-4524

TELEX: VIA USA 7601067 UC

Certificate of GEOCHEM

Company: MID CANADA EXPL.  
Project:  
Attention:

File: 62-350/P33  
Date: SEPT 12/86  
Type: SOIL GEOCHEM

We hereby certify the following results for samples submitted.

Sample Number	AS PPM	AU PFB	
LB0E 20N	4	5	
LB0E 21N	1	5	
LB0E 22+20N	1	10	
LB4E 2N	13	15	
LB4E 3N	4	5	
LB4E 4N	3	5	
LB4E 5N HUM	2	5	20MESH
LB4E 6N	3	5	
LB4E 7N	2	10	
LB4E 8N	2	5	
LB4E 9N HUM	5	5	20MESH
LB4E 10N HUM	1	5	20MESH
LB4E 11N	1	10	
LB4E 12N	1	5	
LB4E 13N	4	5	
LB4E 14N	3	10	
LB4E 15N	3	5	
LB4E 16N	4	5	
LB4E 17N	4	5	
LB4E 18N	5	10	
LB4E 19N	10	5	
LB4E 20N	11	5	
LB4E 21N	2	5	
LB4E 22N HUM	6	10	20MESH
L44E BLO	2	5	20MESH
L44E 0+50S	3	5	
L44E 1+0S	6	5	
L48E 7+50S	3	5	
L68E 4+0S	3	5	40MESH

Certified by

MIN-EN LABORATORIES LTD.

# MID-CANADA EXPLORATION SERVICES LIMITED

(705) 264-7043

189 Preston St., TIMMINS, ONTARIO P4N 3N4

August 29, 1986

Amwell Consultants Ltd  
Suite 1258, 409 Granville St  
Vancouver, B. C. V6C 1T2

Attention: Alex Briden

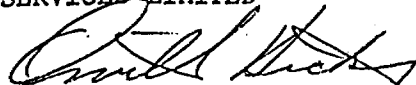
Re: Tonapah Resources Inc. - Huffman Township  
Geochem Survey  
Invoice #134

## STATEMENT

Collecting Soil Samples	\$ 5,000.00
Maps - Telephone Calls etc.	<u>500.00</u>
TOTAL AMOUNT DUE	\$ 5,500.00
Advance received August 7/86 - Cheque #115	<u>3,000.00</u>
TOTAL AMOUNT NOW DUE	<u>\$ 2,500.00</u>

Thank you.

MID-CANADA EXPLORATION  
SERVICES LIMITED



Orville E. Hicks  
President

Enclosures

Note: MIN-EN Laboratories Ltd  
Corner 15th Street and Bewicke  
705 West 15th Street  
North Vancouver, B. C. V7M 1T2

Samples are being assayed for Gold and Arsenic  
967 samples @ \$8.85 \$ 8,557.95

*Paid \$2,500.00  
Wired to  
Royal Bank  
October 3/86  
Total Amt Paid  
\$ 5,500.00*

INVOICE

MIN-EN LABORATORIES LTD.  
705 WEST 15TH STREET  
NORTH VANCOUVER, B.C.  
CANADA V7M 1T2

INVOICE No 2317B

DATE: SEPT 12/86

PHONE: (604)980-5814 OR 988-4524  
TELEX: 04-352828

TO : MID CANADA EXPL.  
  
TIMMINS, ONT.  
P4N 2P4

FILE No: 62-350  
PROJECT:

ATTENTION

QTY	DESCRIPTION	UNIT PRICE	AMOUNT
970	SOIL GEOCHEM - AU	4.50	4365.00
969	SOIL GEOCHEM - AS	3.00	2907.00
970	SOIL SAMPLE PREP	.85	824.50
* TOTAL			8096.50

PAID  
OCT 23 1986

THESE ARE PROFESSIONAL SERVICES AND ARE PAYABLE WHEN RENDERED.  
OVER 30 DAYS 2% INTEREST PER MONTH WILL BE CHARGED.

# MIN-EN Laboratories Ltd.

705 WEST 15th STREET,  
NORTH VANCOUVER, B.C., CANADA V7M 1T2  
TELEPHONE (604) 980-5814

## ANALYTICAL REPORT

Project ..... Date of report **Sept 12/86.**

File No. **62-350** ..... Date samples received **August 25/86**

Samples submitted by: .....

Company: **Mid Canada Expl.** .....

Report on: **970** ..... Geochem samples

..... Assay samples

Copies sent to:

1. **Mid Canada Expl., c/o J. Laitin, Timmins, Ont.** .....

2. ....

3. ....

Samples: Sieved to mesh **-80** ..... Ground to mesh .....

Prepared samples stored  discarded

rejects stored  discarded

Methods of analysis: **As-Spectrophotometric., Au-wet.** .....

Remarks: .....

**RECEIVED**

**NOV 6 1986**

**MINING LANDS SECTION**

SPECIALISTS IN MINERAL ENVIRONMENTS

# MIN-EN Laboratories Ltd.

705 WEST 15th STREET,  
NORTH VANCOUVER, B.C., CANADA V7M 1T2  
TELEPHONE (604) 980-5814

## ANALYTICAL REPORT

Project ..... Date of report Sept 12/86.

File No. 62-350 ..... Date samples received August 25/86

Samples submitted by: .....

Company: Mid Canada Expl.

Report on: 970 ..... Geochem samples

..... Assay samples

Copies sent to:

1. Mid Canada Expl., c/o J. Laitin, Timmins, Ont.

2. ....

3. ....

Samples: Sieved to mesh -80 ..... Ground to mesh .....

Prepared samples stored  discarded

rejects stored  discarded

Methods of analysis: As-Spectrophotometric., Au-wet.

Remarks: .....

SPECIALISTS IN MINERAL ENVIRONMENTS





W8606-276

Mining

DO NOT USE THESE REPORTS UNLESS APPROVED BY THE DIVISION

Type of Survey(s): **Geochemical Survey** Township or Area: **Huffman Township**

Claim Holder(s): **Calvin Black** Prospector's Licence No.: **A 43354**

Address: **Box 189 GOGAMA, ONTARIO**

Survey Company: **Mid-Canada Exploration Services Limited** Date of Survey (from & to): **10 08 86** to **26 08 86** Total Miles of Line Cut: \_\_\_\_\_

Name and Address of Author (of Geo-Technical report): \_\_\_\_\_

Credits Requested per Each Claim in Columns at right Mining Claims Traversed (List in numerical sequence)

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: Enter 20 days (for each)	- Radiometric	
	- Other	
	Geological	
	Geochemical	<b>20</b>

Man Days	Geophysical	Days per Claim
Complete reverse side and enter total(s) here	- Electromagnetic	
	- Magnetometer	
	- Radiometric	
	- Other	
	Geological	
	Geochemical	

Airborne Credits	Geophysical	Days per Claim
Note: Special provisions credits do not apply to Airborne Surveys.	Electromagnetic	
	Magnetometer	
	Radiometric	

Mining Claim			Mining Claim		
Prefix	Number	Expend. Days Cr.	Prefix	Number	Expend. Days Cr.
<b>2</b>	<b>688086</b>	<b>24</b>			
	<b>688086</b>	<b>24</b>			

POHQUINE MINING DIVISION RECEIVED SEP 19 1986

RECORDED SEP 19 1986

Expenditures (excludes power stripping)

Type of Work Performed: **(77-14) Geochemical**

Performed on Claim(s): \_\_\_\_\_

Calculation of Expenditure Days Credits

Total Expenditures: **\$ 3000.00** ÷ Total Days Credits: **15** = **600**

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.

Total number of claims covered by this report of work: **1**

For Office Use Only

Total Days Credits Recorded: **44** Date Recorded: **Sept 19/86** Mining Division: **Timmins**

Date Approved as Recorded: \_\_\_\_\_ Branch Director: **[Signature]**

Date: **Sept. 19/86** Receiver/Holder or Agent (Signature): **[Signature]**

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: **Orville E. Hicks, 189 Preston Street, Timmins, Ontario P4N 3W4**



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 P 683182, 683183, 683202, 683961, 684003 to 684012, 688086 to 688096

Total Number of Samples 970

Type of Sample Soil or Humus (Nature of Material)

Average Sample Weight 1/2 pound

Method of Collection Shovel

Soil Horizon Sampled B or Humus

Horizon Development Poor

Sample Depth to 2.0 feet

Terrain Flat rolling, forested, swampy, some bare rock.

Drainage Development Slow, swampy.

Estimated Range of Overburden Thickness 0 to 6 feet

SAMPLE PREPARATION

(Includes drying, screening, crushing, ashing)

Mesh size of fraction used for analysis

80 mesh for soils,

20 & 40 mesh for humus

Digestion with Au - wet and

As - spectrophotometric

General

[Blank lines for general notes]

ANALYTICAL METHODS

Values expressed in: per cent [ ], p. p. m. [X], p. p. b. [X]

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

Commercial Laboratory (970 tests)

Name of Laboratory Min-En Laboratories.

Extraction Method

Analytical Method

Reagents Used

General

[Blank lines for general notes]

January 23, 1987

Your File Nos. 277/86 & 296/86  
Our File: 2.9523

Mining Recorder  
Ministry of Northern Development and Mines  
60 Wilson Avenue  
Timmins, Ontario  
P4N 2S7

Dear Sir:

RE: Notice of Intent dated December 19, 1986  
Assaying and Geochemical Survey on Mining  
Claims P 633961, et al, in Huffman Township

---

The assessment work credits, as listed with the above-mentioned  
Notice of Intent, have been approved as of the above date.

Please inform the recorded holder of these mining claims and  
so indicate on your records.

Yours sincerely,

J.C. Smith, A/Manager  
Mining Lands Section  
Mineral Development and Lands Branch  
Mines and Minerals Division

Whitney Block, Room 6610  
Queen's Park  
Toronto, Ontario  
M7A 1W3

Telephone: (416) 965-4888

SH/mc

cc: Gordon Smith  
5207 Hollycroft Drive  
Richmond, B.C.  
V6C 1E2

Orville E. Hicks  
189 Preston Street  
Timmins, Ontario  
P4N 3N4

Calvin Black  
Box 189  
Gogama, Ontario  
P0M 1W0

Mr. G.H. Ferguson  
Mining & Lands Comm.  
Toronto, Ontario

Resident Geologist  
Timmins, Ontario

Encl.



AMENDED

Recorder Holder	CALVIN BLACK, GORDON SMITH
Township or Area	HUFFMAN TOWNSHIP

Type of survey and number of Assessment days credit per claim	Mining Claims Assessed	
Geophysical		
Electromagnetic _____ days	\$9,000.00 SPENT ON ASSAYING SAMPLES TAKEN FROM MINING CLAIMS:  P 683961 688086 to 093 inclusive 688095-96 683182-83 683202 684003-04 684006 to 012 inclusive	
Magnetometer _____ days		
Radiometric _____ days		
Induced polarization _____ days		
Other _____ days		
Section 77 (19) See "Mining Claims Assessed" column		
Geological _____ days		
Geochemical _____ days	600 DAYS CREDIT ALLOWED WHICH MAY BE GROUPED IN ACCORDANCE WITH SECTION 76(6) OF THE MINING ACT R.S.O. 1980.	
Man days <input type="checkbox"/>		Airborne <input type="checkbox"/>
Special provision <input type="checkbox"/>		Ground <input type="checkbox"/>
<input type="checkbox"/> Credits have been reduced because of partial coverage of claims.		
<input type="checkbox"/> Credits have been reduced because of corrections to work dates and figures of applicant.		

Special credits under section 77 (16) for the following mining claims

No credits have been allowed for the following mining claims

not sufficiently covered by the survey       insufficient technical data filed

The Mining Recorder may reduce the above credits if necessary in order that the total number of approved assessment days recorded on each claim does not exceed the maximum allowed as follows: Geophysical - 80; Geological - 40; Geochemical - 40; Section 77(19) - 60.



AMENDED

Recorded Holder	CALVIN BLACK
Township or Area	HUFFMAN TOWNSHIP

Type of survey and number of Assessment days credit per claim	Mining Claims Assessed
Geophysical	
Electromagnetic _____ days	
Magnetometer _____ days	
Radiometric _____ days	
Induced polarization _____ days	
Other _____ days	
Section 77 (19) See "Mining Claims Assessed" column	
Geological _____ days	
Geochemical _____ 20 _____ days	P 683961
Man days <input type="checkbox"/> Airborne <input type="checkbox"/>	688086 to 093 inclusive
Special provision <input checked="" type="checkbox"/> Ground <input checked="" type="checkbox"/>	688095-96
<input type="checkbox"/> Credits have been reduced because of partial coverage of claims.	683182-83
<input type="checkbox"/> Credits have been reduced because of corrections to work dates and figures of applicant.	683202
	684003-04
	684006 to 012

Special credits under section 77 (16) for the following mining claims

No credits have been allowed for the following mining claims

not sufficiently covered by the survey       insufficient technical data filed

P 688094  
684005

The Mining Recorder may reduce the above credits if necessary in order that the total number of approved assessment days recorded on each claim does not exceed the maximum allowed as follows: Geophysical - 80; Induced - 40; Geochemical - 40; Section 77(19) - 60.



**MID-CANADA EXPLORATION  
SERVICES LIMITED**

(705) 264-7043

189 Preston St., TIMMINS, ONTARIO P4N 3N4

December 3, 1986

Ministry of Northern Development and Mines  
Whitney Block, 6th Floor  
Queen's Park  
Toronto, Ontario  
M7A 1W3

Attention: J. C. Smith, Supervisor  
Mining Lands Section

Re: Your File: 2.9523  
Geochemical Survey and Data for Assaying  
submitted on Mining Claims P 683961, et al,  
in Huffman Township

---

Enclosed herewith are plans showing all claim lines and claim numbers re  
the above in duplicate as requested in your letter dated November 14,  
1986.

Yours truly,

MID-CANADA EXPLORATION  
SERVICES LIMITED



Orville E. Hicks  
President

/ch

Enclosures

**RECEIVED**

DEC - 9 1986

**MINING LANDS SECTION**

November 14, 1986

File: 2.9523

Gordon Smith  
5237 Holleycroft Drive  
Richmond, B.C.  
V6C 1E1

Dear Sir:

RE: Geochemical Survey and Data for Assaying  
submitted on Mining Claims P 683961, et al,  
in Huffman Township

---

Returned herein is one of the geochemical plans (in duplicate) for the above-mentioned survey. On each copy, please show all claim lines and claim numbers. Also, if you wish credits for the geochemical survey, please submit a complete report (in duplicate). When returning this material, please quote file 2.9523.

For further information, please contact (Mrs.) Susan Hurst at (416) 965-4888.

Yours sincerely,

J.C. Smith, Supervisor  
Mining Lands Section

Whitney Block, 6th Floor  
Queen's Park  
Toronto, Ontario  
M7A 1W3

Telephone: (416) 965-4888

SH/mc  
cc: Mining Recorder  
Timmins, Ontario  
File No.277/86

Orville Hicks  
189 Preston Street  
Timmins, Ontario  
P4N 3N4

Encl.

*Sent by Airtel  
Nov. 5.  
#81966953*

November 10, 1986

Report of Work 296

Calvin Black  
Box 189  
Gogama, Ontario  
POM 1W0

Dear Sir:

RE: Mining Claim P 688086 in Huffman Township

We have not received the reports and maps (in duplicate) for the Geochemical Survey on the above-mentioned claim

As the assessment "Report of Work" was recorded by the Mining Recorder on September 19, 1986 the 60 day period allowed by Section 77 of the Mining Act for the submission of the technical reports and maps to this office will expire on November 18, 1986.

If the material is not submitted to this office by November 18, 1986 we will have no alternative but to instruct the Mining Recorder to delete the work credits from the claim record sheets.

For further information, please contact Mr. Arthur Barr at (416)965-4888.

Yours sincerely,

J.C. Smith, Supervisor  
Mining Lands Section

Whitney Block, 6th Floor  
Queen's Park  
Toronto, Ontario  
M7A 1W3

Telephone: (416) 965-4888

AB/mc

cc: Orville E. Hicks  
189 Preston Street  
Timmins, Ontario  
P4N 3N4

Mining Recorder  
Timmins, Ontario

Encl.



*Merry*

In the matter of mining claims:

P 683961, et al, in Huffman Township  
as listed on Report of Work No.277-86.

On consideration of an application from the recorded holder, Gordon Smith  
under Section 77 Subsection 22 of the Mining Act, I hereby order that the time for filing reports and plans in support of  
Analytical and Geochemical assessment work recorded on August 29, 1986  
be extended until and including November 7, 1986.

Oct. 29/86  
Date

*R. P. Bank*  
Signature of Director, Land Management Branch

Copies:

Gordon Smith  
5237 Hollycroft Drive  
Richmond, B.C.  
V6C 1E1

Orville E. Hicks  
189 Preston Street  
Timmins, Ontario  
P4N 3N4

Mining Recorder  
Timmins, Ontario

*PAB*

Nov 7th

October 17, 1986

Report of Work 277

Gordon Smith  
5237 Hollycroft Drive  
Richmond, B.C.  
V6C 1E1

Dear Sir:

RE: Mining Claims P 683961, et al, in Huffman Township

We have not received the reports and maps (in duplicate) for the Geochemical Survey on the above-mentioned claims.

As the assessment "Report of Work" was recorded by the Mining Recorder on August 29, 1986 the 60 day period allowed by Section 77 of the Mining Act for the submission of the technical reports and maps to this office will expire on October 28, 1986.

If the material is not submitted to this office by October 28, 1986 we will have no alternative but to instruct the Mining Recorder to delete the work credits from the claim record sheets.

For further information, please contact Mr. Arthur Barr at (416)965-4888.

Yours sincerely,



J.C. Smith, Supervisor  
Mining Lands Section

Whitney Block, 6th Floor  
Queen's Park  
Toronto, Ontario  
M7A 1W3

Telephone: (416) 965-4888  
AB/mc

cc: Orville E. Hicks -  
189 Preston Street  
Timmins, Ontario  
P4N 3N4

Mining Recorder  
Timmins, Ontario

Encl.

*Called Oct 28th asking for extension*

683961

✓

683202

✓

688087

✓

684003

✓

88

✓

4

✓

89

✓

5

NC

90

✓

6

✓

91

✓

7

✓

92

✓

8

✓

93

✓

9

✓

94

NC

10

✓

95

✓

11

✓

96

✓

12

✓

683182

✓

83

✓

688086

✓

2

**REFERENCES**

**AREAS WITHDRAWN FROM DISPOSITION**

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

Description    Order No.    Date    Disposition    File

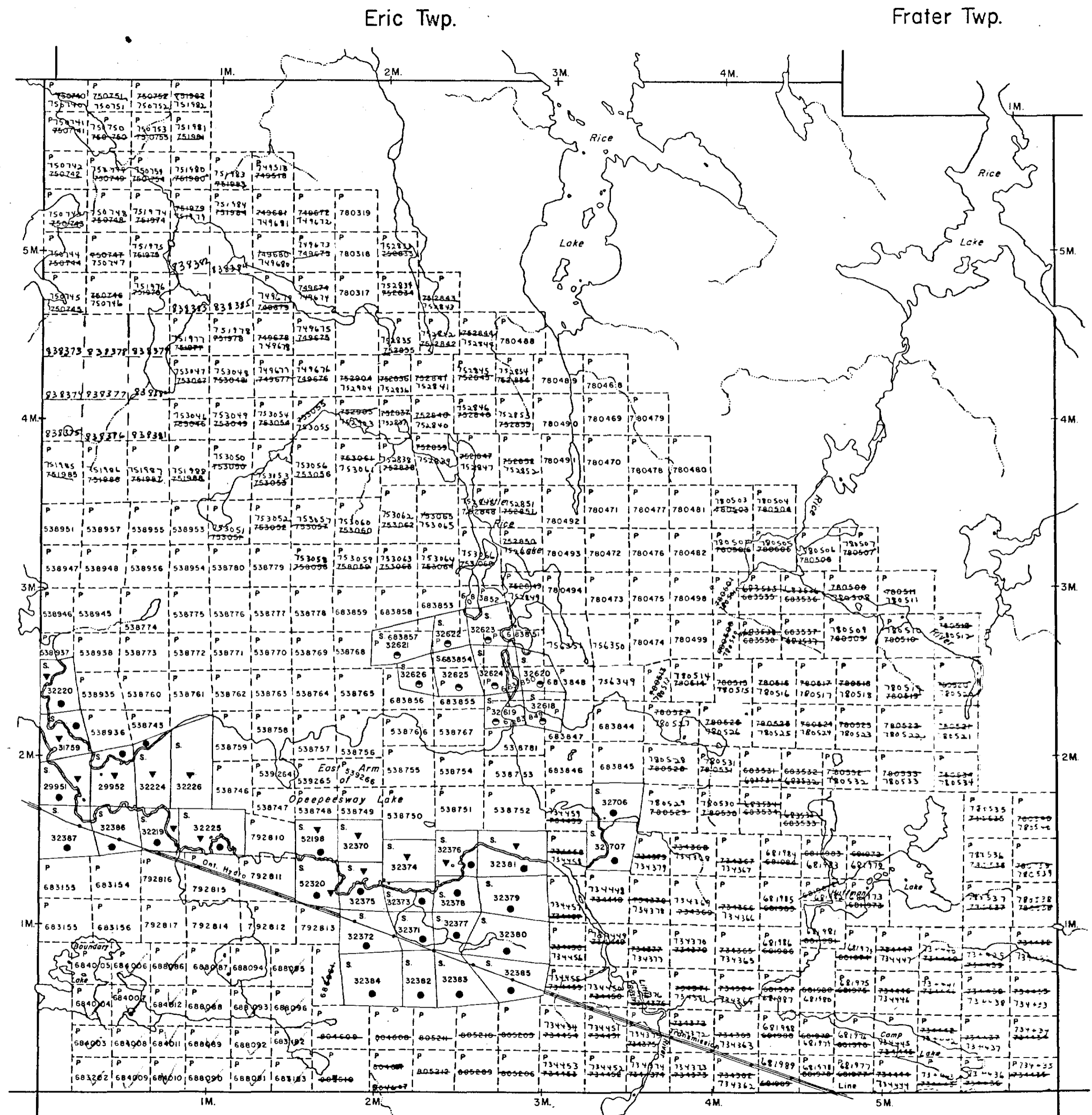
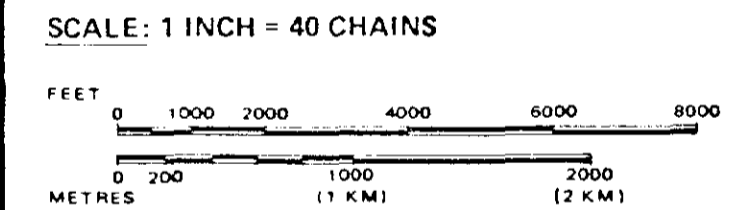
**LEGEND**

- HIGHWAY AND ROUTE No.
- OTHER ROADS
- TRAILS
- SURVEYED LINES:
  - TOWNSHIPS, BASE LINES, ETC.
  - LOTS, MINING CLAIMS, PARCELS, ETC.
- UNSURVEYED LINES:
  - LOT LINES
  - PARCEL BOUNDARY
  - MINING CLAIMS ETC.
- RAILWAY AND RIGHT OF WAY
- UTILITY LINES
- NON-PERENNIAL STREAM
- FLOODING OR FLOODING RIGHTS
- SUBDIVISION OR COMPOSITE PLAN
- RESERVATIONS
- ORIGINAL SHORELINE
- MARSH OR MUSKEG
- MINES
- TRAVERSE MONUMENT

**DISPOSITION OF CROWN LANDS**

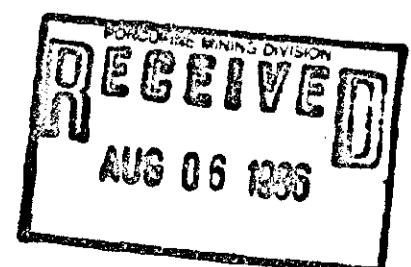
TYPE OF DOCUMENT	SYMBOL
PATENT, SURFACE & MINING RIGHTS	●
" SURFACE RIGHTS ONLY	○
" MINING RIGHTS ONLY	◐
LEASE, SURFACE & MINING RIGHTS	■
" SURFACE RIGHTS ONLY	◼
" MINING RIGHTS ONLY	◑
LICENCE OF OCCUPATION	▽
ORDER-IN-COUNCIL	OC
RESERVATION	⊙
CANCELLED	⊗
SAND & GRAVEL	⊕

NOTE: MINING RIGHTS IN PARCELS PATENTED PRIOR TO MAY 6, 1913, VESTED IN ORIGINAL PATENTEE BY THE PUBLIC LANDS ACT, R.S.O. 1970, CHAP 380, SEC. 63, SUBSEC 1.

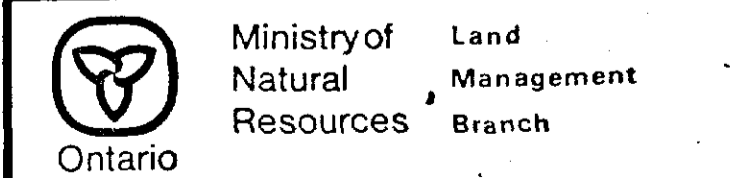


410098E0006 2.9523 HUFFMAN

200



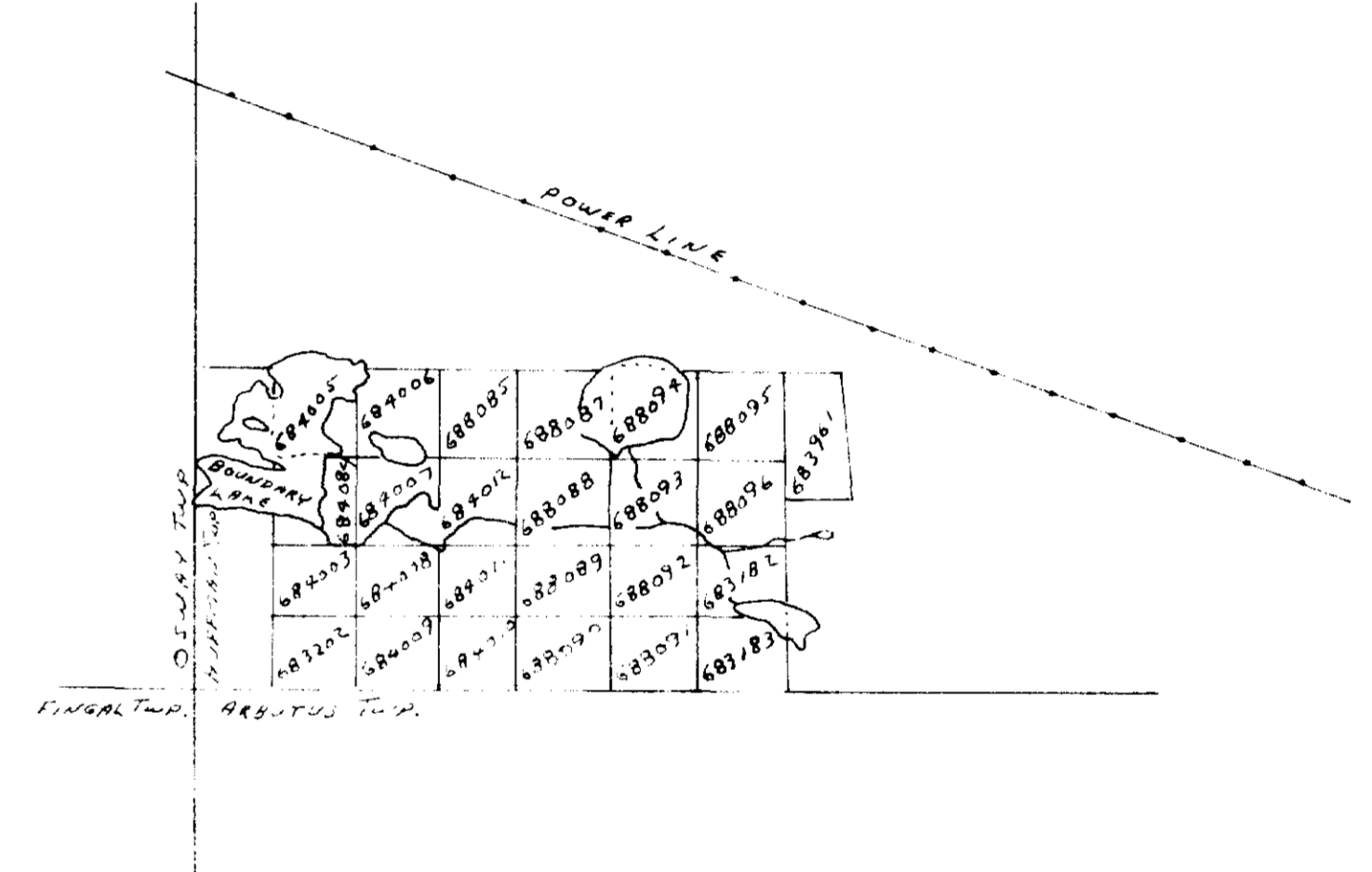
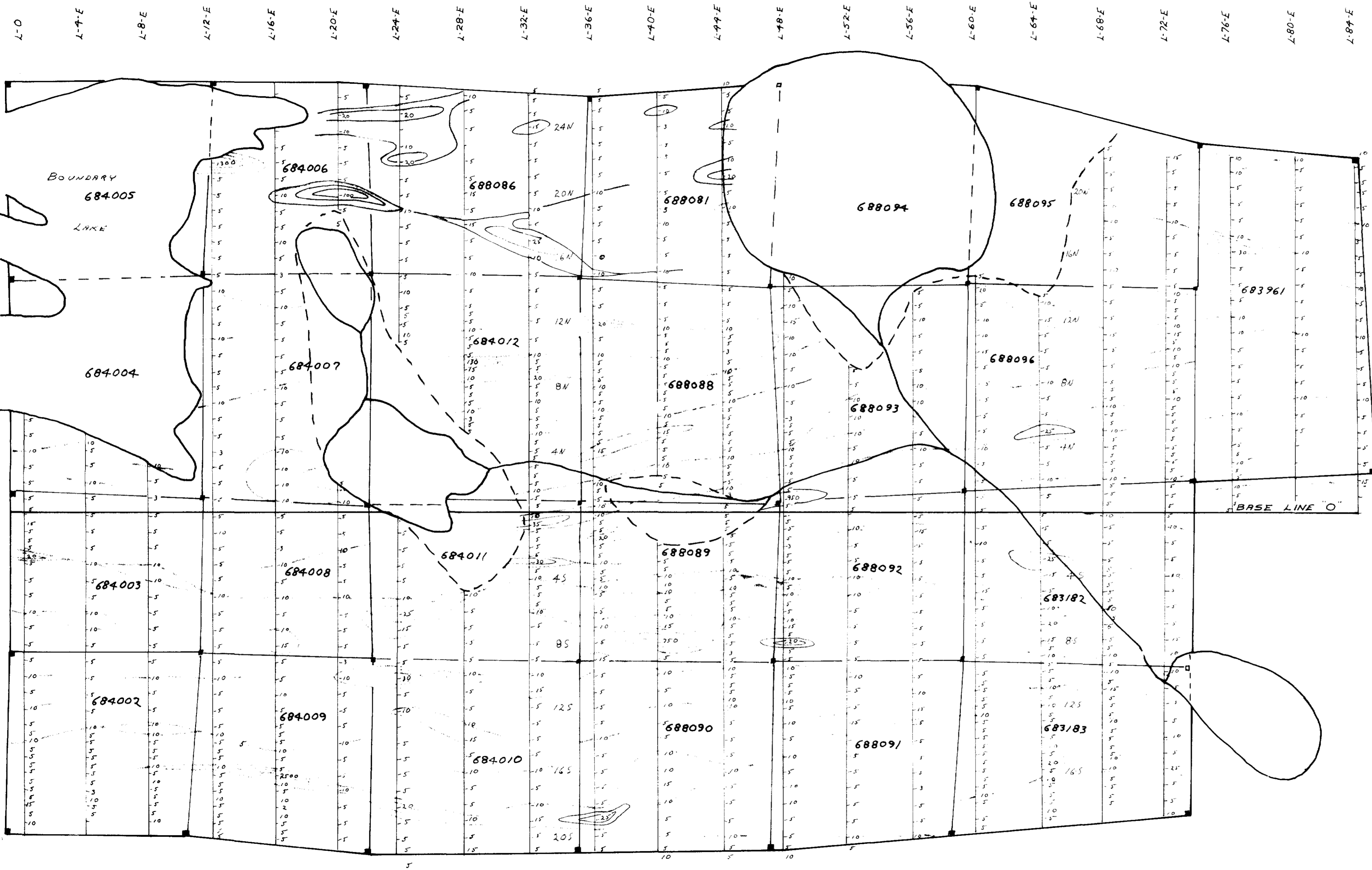
TOWNSHIP  
**HUFFMAN**  
 M.N.R. ADMINISTRATIVE DISTRICT  
**CHAPLEAU**  
 MINING DIVISION  
**PORCUPINE**  
 LAND TITLES / REGISTRY DIVISION  
**SUDBURY**



Date MARCH 1985    Number 3932

ref. June 6/85    **G-327**

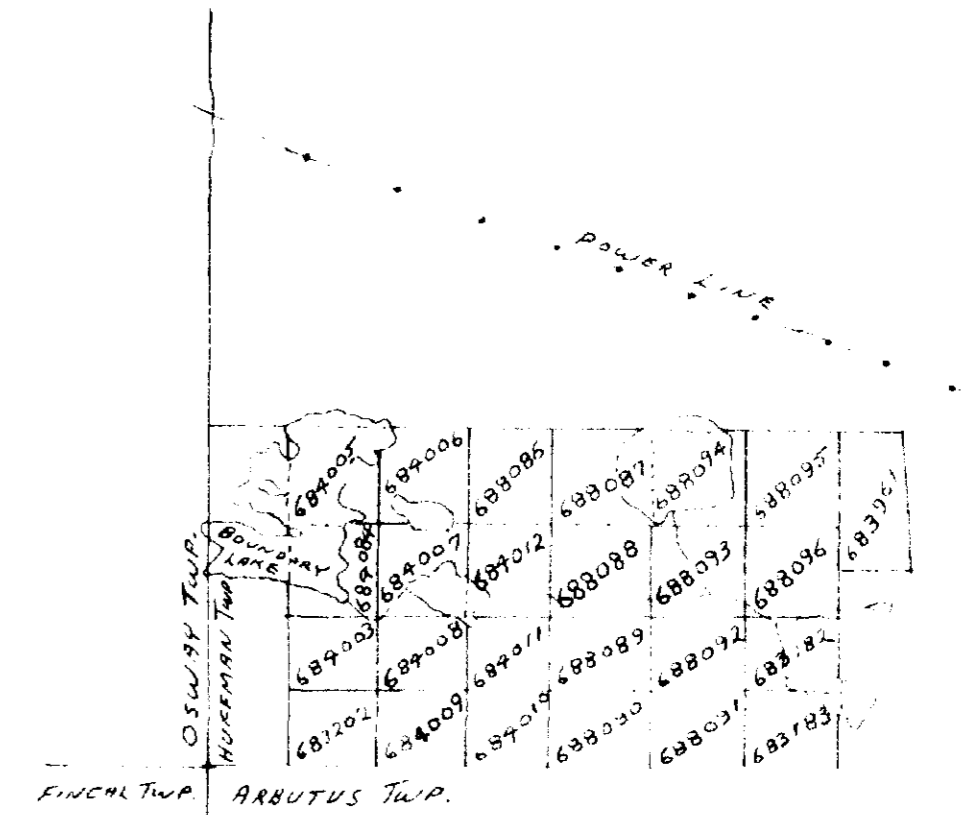
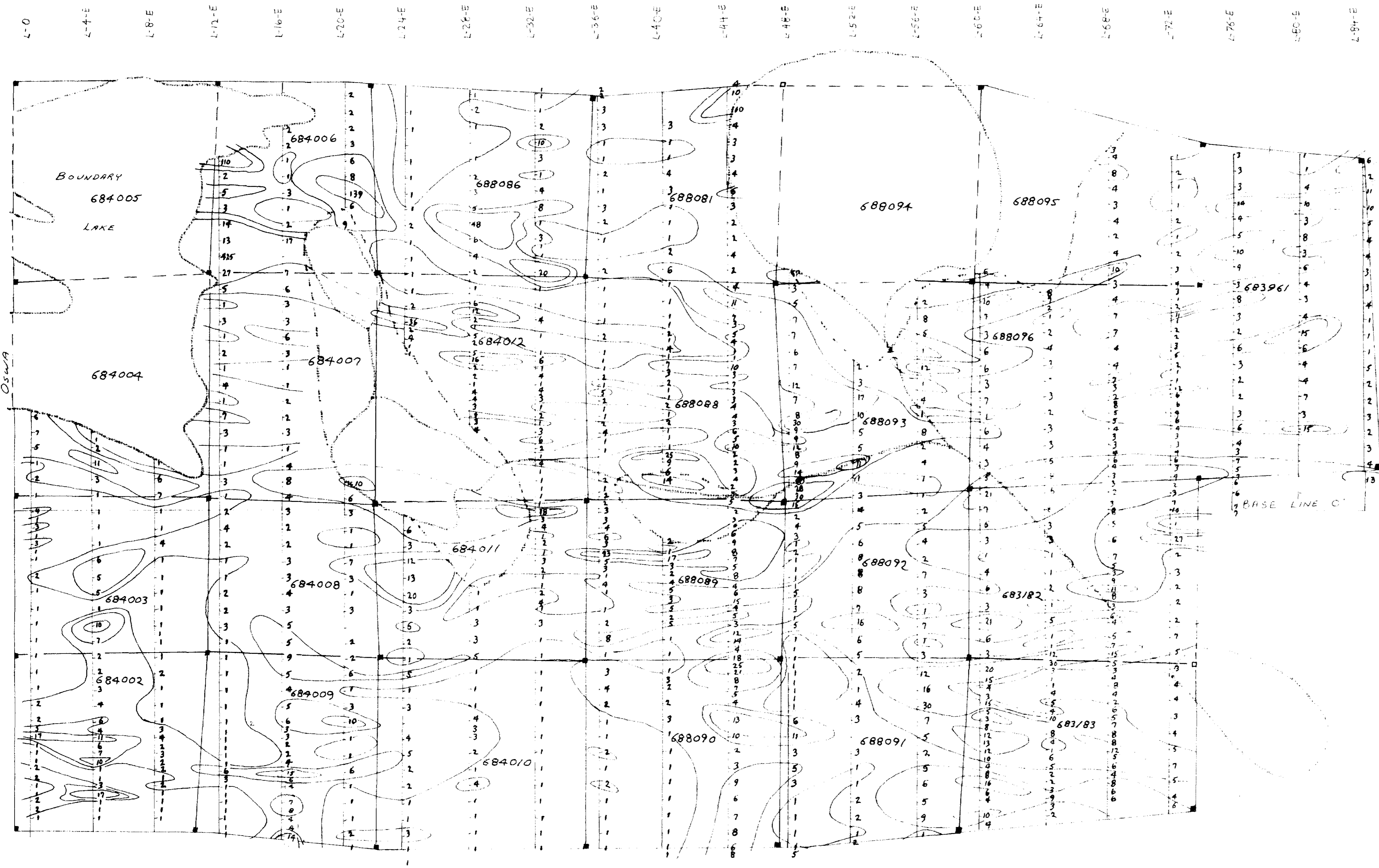
Arbutus Twp.



TONAPAH RESOURCES INC.	
SOIL GEOCHEM - PPB - AU	
HUFFMAN TOWNSHIP	
ONTARIO	
AUGUST 30, 1986	SCALE 1" = 400 FEET







TONAPAH RESOURCES INC  
 SOIL GEOCHEM - PPM-AS  
 HUFFMAN TOWNSHIP  
 ONTARIO  
 November 3, 1986  
 Scale 1" = 400 Feet

