



42A055E0116 2.11589 DENTON

010

Till Sampling by Percussion Drill
Cripple Creek Gold Property, Denton Township
TME Resources Inc./Esperanto Resources Inc.

by

William O. Karvinen, Ph.D.

April 20, 1988

2.3962

RECEIVED

SEP 7 1988

MINING LANDS SECTION

W.O.Karvinen & Associates Ltd.

Summary

Till sampling by percussion drilling of 59 sites on the Esperanto/TME Resources gold property at Cripple Creek near Timmins indicates the presence of good till in the western half of the property but a general lack of good till on the east half. An early breakup prevented completion of all the drilling, but an additional 60 sites would be sufficient to adequately test the property where till is present.

Samples sent to the laboratory for analysis of gold and 28 other elements showed weak anomalous values at only two sites; both of these are located near zones in bedrock which were known to be anomalous in gold.

Introduction

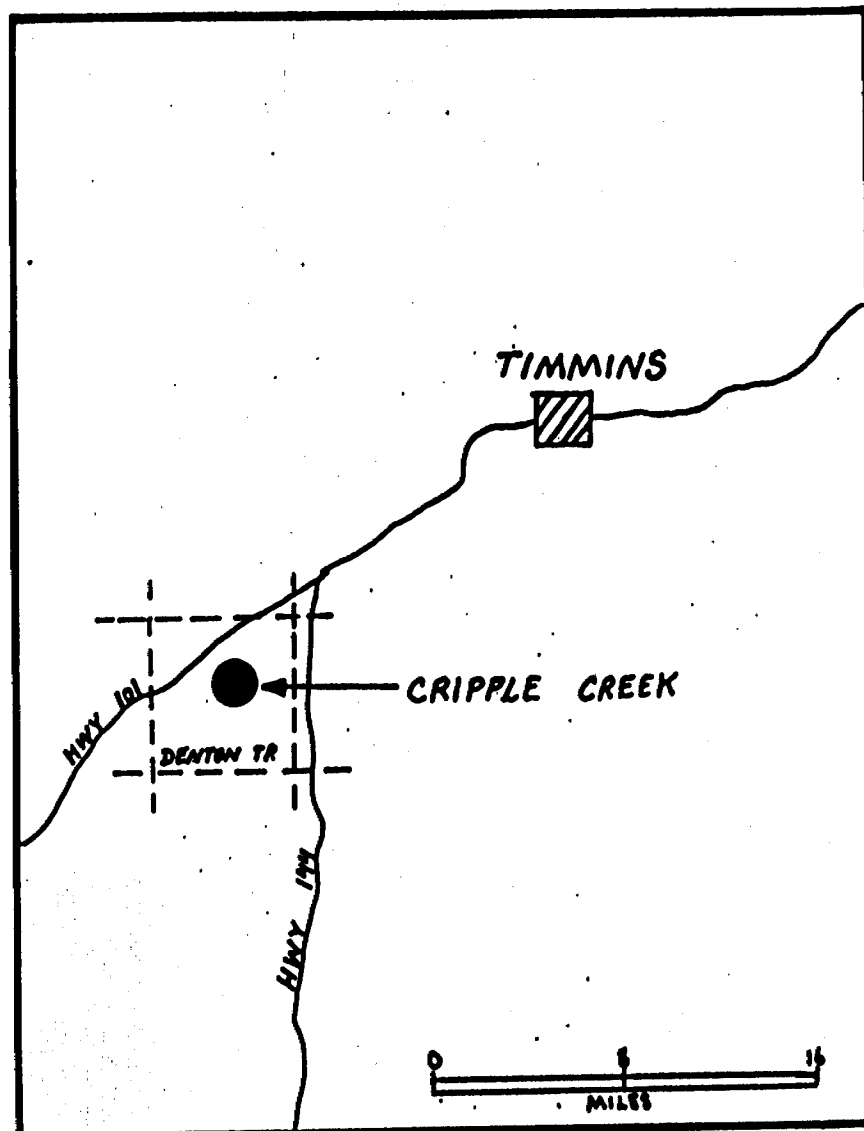
Bedrock on the Cripple Creek Gold property in Denton Township near Timmins is almost entirely covered by a blanket of glacial sediments estimated to range from zero to about 25 feet thick. The few places where bedrock is exposed, low values of gold have been obtained, but more than 95% of the bedrock on the property is not available to surface sampling and very limited diamond drilling has been done in the past. It was therefore decided to sample till in areas of extensive cover and to analyze these samples for gold and related trace elements.

From March 25 to April 7, 1988, W. O. Karvinen & Associates Ltd. carried out percussion overburden drilling on the Cripple Creek Gold property. The purpose of the drilling was to determine the quality and extent of till on the property, to obtain samples of till where possible for geochemical analysis and to attempt to obtain some bedrock samples.

A total of about 150 drill sites were planned, however, due to an early breakup, only 59 holes were completed. These holes indicate the presence of good till underlying most of the western half of the property, but a general lack of till in the eastern half. The samples will be analyzed for 28 elements by Barringer Magenta Limited of Rexdale.

Location and Access

The Cripple Creek Gold property is located in central Denton Township approximately 20 miles southwest of Timmins, Ontario (Fig. 1). The claim group is accessible via a seasonal road which leaves highway 101 west about 1 1/2 miles away. Recently, access roads have also been bulldozed on the property by the optioning companies.



Location Map

Fig. 1: Location Map of Cripple Creek Gold Property.

Property Description

The property comprises 11 contiguous unpatented claims numbered P865396 to P865403 inclusive and P930957 to P930959 inclusive. The claims are in the name of W. O. Karvinen and under an exploration agreement with TME Resources Inc. and Esperanto Resources Inc.

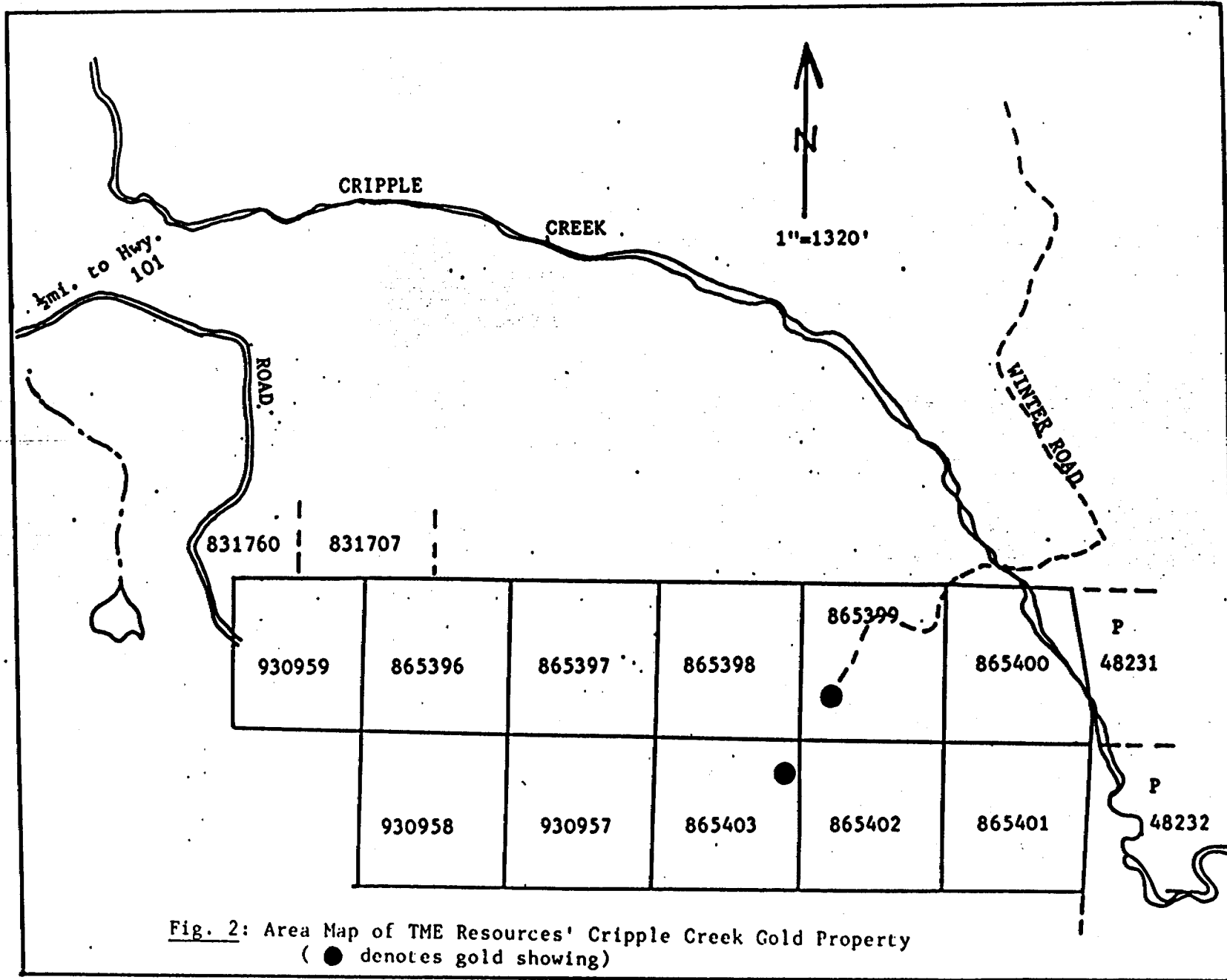
Previous Till Exploration

No record exists of any till sampling and geochemical work on the existing property or in the immediate vicinity. Discussions with Ron Bradshaw about till sampling on the Gowest Resources property to the northeast of Cripple Creek revealed that the till there is very compact and difficult to penetrate with percussion drill equipment. W. O. Karvinen & Associates Ltd. have carried out percussion drill till sampling in the Timmins area since 1980 and have found till to be present on many properties, however, large areas exist, particularly near glacial river systems where the till has been eroded and only glaciofluvial sediments are present.

Methodology

Till is the first derivative of glacial erosion and reflects the local bedrock geochemistry and any zones of mineral enrichment. Therefore a sample of till is considered to be representative of a certain area of local bedrock. Systematic sampling and analysis of the same till sheet in an area should delineate areas enriched in metals of economic interest. Detailed follow-up of these anomalous areas can then be carried out using more closely spaced till sampling and other exploration methods.

It is common practice to collect fairly big samples (2kg. to 50kg.) of till either through the use of big drill rigs such as the reverse-circulation drill and sonic drill or backhoes and to separate from the sample the heavy mineral fraction. This is particularly useful in gold exploration, however, these methods are quite costly.



Light portable percussion drills are less expensive to use but have their limitations in depth and penetration and generally do not retrieve very large samples (a few hundred grams). Such small samples are not sufficient for heavy mineral analysis, however, it has been shown in many studies that the analysis of the silt to clay size fraction (less than 250 mesh or 0.063 microns) is representative and very reliable even in samples as small as 50 grams.

The equipment used by W. O. Karvinen & Associates Ltd. is the same as that currently in use by companies and government surveys in Scandinavia where the understanding and use of till geochemistry is very advanced. The sampler is a flow-through type bit (Holman Sampler) which is driven into the ground with a string of rods by a Cobra plugger. The rod size is 25mm and the sampler has a capacity of about 90 grams. The hardened teeth at the end of the bit make it possible to get a small button of bedrock. The flow-through principle of the sampler as well as the flexibility of the rods allow for remarkably good penetration of a variety of glacial sediment types.

Present Work

On the Cripple Creek property, the above-described equipment mounted on an Alpine snowmobile and sleigh was used to drill 59 sites out of a planned 150. The penetration of the sand and till was relatively good, however, bedrock was reached in only a few places due to the extremely compacted basal portion of the till.

Most of the holes were drilled along the access roads (see map) and a few on cross lines. The work was not completed as planned because the winter conditions of about 4 feet of powdery snow suddenly changed (in a matter of a few days during Easter) to thick slush and water due to very mild temperatures. These conditions made it virtually impossible to move the drill equipment even on the bulldozed roads. Completion of the sampling will have to wait until conditions improve.

Results

The drilling of 59 sites for till indicates a number of features of the till on the property not previously known. It is readily apparent from the map that till is very scarce to non-existent east of cross-line 44E toward Cripple Creek. In the sites drill east of 44E, the entire section to bedrock is sand with some black organic muds in the cedar swamps. The eastern part of the property was probably eroded of pre-existing till during melting of the glaciers by rivers which are ancestral to Cripple Creek.

On the west portion of the property the till is well preserved; it is generally gray, very compact and found from close to surface (within a few feet) to bedrock. Based on the holes drilled, the thickness varies from a few feet to more than 15 feet (see map).

Although bedrock was not reached in most of the holes, it is estimated that most of the till samples were obtained from within 3 to 7 feet of bedrock. If this is true, then the average depth of overburden encountered during this drilling was about 15 feet.

Analysis of Samples

The samples were dried and shipped to Barringer Magenta Limited for sieving and analysis. A minus 250 mesh fraction was extracted from each sample and analyzed by neutron activation for gold and 28 other elements at a cost of about 14.50 dollars per sample. Results of these analyses in parts per billion (ppb) and parts per million (ppm) are tabulated on the enclosed assay sheet.

With respect to gold, only two samples show some anomalous values: these are CC-28 and CC-37 which have 13 and 17 ppb gold respectively and also have anomalous values of arsenic, nickel, chromium and zinc.

SAMPLE ID	AU PFB	AG PPM	AS PPM	BA PPM	BR PPM	CU PPM	CR PPM	CS PPM	HF PPM	HG PPM
CC-1	<5	<5	2	470	2	6	85	<2	8	<1
CC-2	<5	<5	2	360	2	7	50	3	8	<1
CC-3	<5	<5	1	360	2	8	64	<2	8	<1
CC-4	<5	<5	2	360	2	10	55	<2	9	<1
CC-5	<5	<5	2	420	2	8	74	<2	10	<1
CC-6	6	<5	2	430	3	9	50	<2	10	<1
CC-7	5	<5	2	490	3	7	53	<2	9	<1
CC-8	<5	<5	4	350	2	16	79	<2	14	<1
CC-9	<5	<5	2	430	2	8	49	<2	9	<1
CC-10	<5	<5	1	400	3	6	48	<2	11	<1
CC-11	7	<5	2	440	3	7	52	<2	11	<1
CC-12	<5	<5	<1	490	3	8	42	<2	11	<1
CC-13	<5	<5	2	530	3	8	57	<2	11	<1
CC-14	<5	<5	2	520	3	9	60	<2	10	<1
CC-15	<5	<5	2	430	2	9	57	<2	10	<1
CC-16	<5	<5	3	420	3	14	58	<2	10	<1
CC-17	<5	<5	2	380	3	9	57	<2	10	<1
CC-18	7	<5	3	460	3	9	55	<2	10	<1
CC-10-REP.	8	<5	<1	500	3	7	50	<2	12	<1
CC-19	<5	<5	2	360	2	8	47	<2	9	<1
CC-20	<5	<5	1	370	<1	10	59	4	10	<1
CC-21	<5	<5	2	430	2	7	55	<2	8	<1
CC-22	<5	<5	2	390	2	8	50	<2	10	<1
CC-23	<5	<5	<1	430	2	8	51	2	8	<1
CC-24	<5	<5	2	350	2	12	51	<2	10	<1
CC-25	<5	<5	3	470	<1	11	60	<2	10	<1
CC-26	<5	<5	2	480	3	7	60	<2	10	<1
CC-27	<5	<5	2	470	<1	15	72	<2	12	<1
CC-28	13	<5	7	550	5	59	400	3	11	<1
CC-29	<5	<5	5	460	<1	22	39	<2	5	<1
CC-30	<5	<5	4	600	2	24	100	3	7	<1
CC-31	<5	<5	6	800	2	43	130	<2	8	<1
CC-32	<5	<5	5	420	2	15	58	3	6	<1
CC-33	<5	<5	1	390	2	21	290	<2	10	<1
CC-36	7	<5	2	470	2	9	63	<2	15	<1
CC-37	<5	<5	17	170	1	62	2900	<2	3	<1
CC-38	<5	<5	4	400	<1	17	73	3	7	<1
CC-39	17	<5	1	170	2	9	63	<2	12	<1
CC-40	<5	<5	2	400	3	9	59	2	12	<1
CC-41	8	<5	2	430	2	9	73	<2	10	<1
CC-42	<5	<5	2	470	3	8	63	<2	10	<1
CC-43	<5	<5	2	470	2	9	61	<2	10	<1
CC-44	<5	<5	2	500	3	9	55	<2	11	<1
CC-46	<5	<5	2	370	2	9	57	<2	9	<1
CC-47	<5	<5	3	490	2	8	64	2	10	<1

304 CARLINGVIEW DRIVE
REXDALE, ONTARIO
M9W 5G2

(416) 675-3870

FILE: T8_1057
DATE: 11/05/88
MATRIX:

BARRINGER MAGENTA

W.D.KARVINEN & ASSOCIATES LTD.

WO NO: 88-1057

PAGE: 2

SAMPLE ID	AU PPB	AG PPM	AS PPM	BA PPM	BR PPM	CO PPM	CR PPM	CS PPM	HF PPM	HG PPM
CC-48	<5	<5	3	430	2	8	61	<2	10	<1
CC-49	<5	<5	2	360	3	10	58	<2	10	<1
CC-50	<5	<5	2	580	3	9	55	<2	10	<1
45-A	7	<5	3	460	3	9	56	<2	9	<1
45-B	<5	<5	3	510	3	8	59	<2	10	<1

SAMPLE ID	IR PPB	MO PPM	NA PPM	NI PPM	KB PPM	SB PPM	SC PPM	TH PPM	V PPM	W PPM	ZN PPM
CC-1	<5	<5	20400	<50	<1	<.2	8.0	4.5	1.3	<4	<50
CC-2	<5	<5	20500	<50	95	<.2	7.3	4.5	.7	<4	<50
CC-3	<5	<5	20500	<50	92	<.2	7.0	4.7	.8	<4	<50
CC-4	<5	<5	22900	<50	<1	<.2	7.6	4.4	<.5	<4	<50
CC-5	<5	<5	22600	<50	76	<.2	7.9	4.4	.8	<4	<50
CC-6	<5	<5	21900	<50	60	.2	7.6	6.1	1.1	<4	<50
CC-7	<5	<5	22200	<50	71	.2	7.7	5.4	.6	<4	90
CC-8	<5	<5	19700	100	58	.3	13.0	6.3	1.3	<4	70
CC-9	<5	<5	22900	<50	30	.3	8.1	5.6	1.3	<4	<50
CC-10	<5	<5	23800	<50	46	.2	8.0	4.6	1.1	<4	<50
CC-11	<5	<5	22600	<50	60	<.2	7.2	6.2	1.1	<4	60
CC-12	<5	<5	24700	<50	48	<.2	7.9	5.0	1.0	<4	<50
CC-13	<5	<5	22200	<50	48	.2	8.0	4.7	.8	<4	<50
CC-14	<5	<5	24000	<50	65	<.2	8.0	5.2	1.5	<4	<50
CC-15	<5	<5	23300	<50	60	.3	8.3	5.7	1.6	<4	<50
CC-16	<5	<5	22600	<50	<1	.3	12.0	5.1	1.4	<4	<50
CC-17	<5	<5	22200	<50	64	<.2	8.1	5.4	1.6	<4	<50
CC-18	<5	<5	22600	<50	57	.2	9.6	6.7	1.1	<4	<50
CC-10-REP.	<5	<5	24700	<50	51	.3	9.0	5.3	.8	<4	<50
CC-19	<5	<5	21700	<50	<1	<.2	7.8	4.8	.9	<4	<50
CC-20	<5	<5	21400	<50	<1	<.2	7.8	5.0	.8	<4	<50
CC-21	<5	<5	21900	<50	100	<.2	7.9	5.1	.9	<4	<50
CC-22	<5	<5	21400	<50	73	.3	8.2	4.9	1.0	<4	<50
CC-23	<5	<5	21500	<50	<1	<.2	7.7	4.6	.9	<4	<50
CC-24	<5	<5	23200	<50	<1	<.2	9.7	4.6	1.9	<4	<50
CC-25	<5	<5	20900	<50	80	<.2	9.5	4.8	<.5	<4	<50
CC-26	<5	<5	23400	<50	173	.2	8.7	4.7	1.5	<4	<50
CC-27	<5	<5	26300	<50	59	.2	15.0	6.4	.9	<4	<50
CC-28	<5	<5	23700	340	55	.3	23.0	12.0	1.5	<4	110
CC-29	<5	<5	39000	<50	<1	.3	8.9	2.8	.8	<4	210
CC-30	<5	<5	20400	<50	97	.3	14.0	5.3	1.1	<4	<50
CC-31	<5	<5	27300	<50	54	<.2	33.0	6.5	1.2	<4	70
CC-32	<5	<5	21800	<50	100	.2	10.0	4.9	<.5	<4	<50
CC-33	<5	<5	19200	<50	44	.3	13.0	4.1	1.4	<4	<50
CC-36	<5	<5	25200	70	83	.4	9.8	6.3	1.3	<4	<50
CC-37	<5	<5	4300	810	<1	.2	31.0	.9	<.5	<4	320
CC-38	<5	<5	74800	90	30	<.2	9.5	18.0	2.3	<4	80
CC-39	<5	<5	22300	<50	63	.3	8.2	5.6	1.0	<4	<50
CC-40	<5	<5	23600	<50	60	<.2	8.1	5.7	1.0	<4	<50
CC-41	<5	<5	22600	<50	63	.2	8.2	5.2	1.0	<4	50
CC-42	<5	<5	23200	<50	87	<.2	8.4	5.1	2.3	<4	<50
CC-43	<5	<5	22300	<50	60	<.2	8.1	5.0	1.2	<4	70
CC-44	<5	<5	23800	<50	77	<.2	8.9	5.5	<.5	<4	<50
CC-46	<5	<5	21300	<50	<1	.2	8.1	5.0	<.5	<4	<50
CC-47	<5	<5	20500	<50	49	<.2	8.1	4.7	1.3	<4	<50

SAMPLE ID	IR PPB	MO PPM	NA PPM	NI PPM	KB PPM	SB PPM	SC PPM	TH PPM	V PPM	W PPM	ZN PPM
CC-48	<5	<5	21000	<50	90	<.2	8.0	4.4	1.0	<4	<50
CC-49	<5	<5	21800	<50	45	<.2	8.3	5.3	1.3	<4	60
CC-50	<5	<5	22600	<50	70	<.2	8.6	5.3	1.3	<4	<50
45-A	<5	<5	21300	<50	75	.3	8.3	5.3	1.1	<4	<50
45-B	<5	<5	23000	<50	61	.2	8.5	5.0	1.2	<4	<50

Both of these sample sites are near or on top of potential gold-bearing zones known as the No. 2 Zone and a conductive zone consisting of sulfides and graphite from which some samples with anomalous gold values have been obtained. The high Ni and Cr contents indicate possible proximity to ultramafic rocks.

Conclusions

Only the western half of the Cripple Creek Property is underlain by till suitable for geochemical sampling. To complete the systematic sampling of this area would require about 60 drill sites.

The till is compact and appears to be locally-derived, however, since the basal portion is difficult to penetrate, each sample probably represents material derived from a broader provenance than a basal sample would. Therefore anomalies are expected to be weaker.

The analytical results show a generally low content of gold and related elements such as arsenic in the till sampled. Anomalous responses were recorded only near zones of previously-known gold-bearing rocks.

William O. Karvinen, Ph.D.


April 20, 1988

C E R T I F I C A T E

I, William O. Karvinen, Geologist and president of W.O. Karvinen & Associates Ltd. of 32 Lakeland Pt. Dr., Kingston, Ontario, do hereby certify that:

the information contained in this report is based on personal observations and field work and on reliable published and unpublished reports;

through an option agreement with TME Resources Inc., I have a 2.5% net smelter return interest in the Cripple Creek property and I own shares of TME;

I hold a Doctorate of Philosophy and an Honours Bachelor of Science from Queen's University in Kingston (1974 and 1968 repectively) and a Master of Science from the University of British Columbia (1970);

I am a fellow of the Geological Association of Canada;

I have been actively engaged in my profession for over 20 years and have been carrying out mineral exploration and consulting since 1978.



Kingston, Ontario
April 20, 1988

Dr. William O. Karvinen



900

W 8906-277

Type of Survey(s): **beneficiation (analyses)**

Claim Holder(s): **William O. Karvinen,** Prospector's Licence No. **C32433**

Address: **32 Lakeland Pt. Dr., Kingston, Ont. K7M 4E7**

Survey Company: **W.O. Karvinen & Ass. Ltd.** Date of Survey (from & to): **9 06 88 | 15 06 88** Total Miles of line Cut: _____

Name and Address of Author (of Geo-Technical report): **William O. Karvinen, 32 lakeland Pt. Dr., Kingston, Ont. K7M 4E7**

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	
	- Radiometric	
	- Other	
For each additional survey: using the same grid: Enter 20 days (for each)	Geological	
	Geophysical	Days per Claim
	- Electromagnetic	
	- Magnetometer	
Airborne Credits Note: Special provisions credits do not apply to Airborne Surveys.	Electromagnetic	Days per Claim
	Magnetometer	
	Radiometric	

ONTARIO GEOLOGICAL SURVEY
ASSESSMENT FILES
OFFICE
MAY 11 1989
RECEIVED

Mining Claims Traversed (List in numerical sequence)

Mining Claim			Mining Claim		
Prefix	Number	Expend. Days Cr.	Prefix	Number	Expend. Days Cr.
P	865396	1.9			
	865397	1.9			
	865398	1.9			
	865399	1.9			
	865400	1.9			
	865401	1.9			
	865402	1.9			
	865403	1.9			
	930957	1.9			
	930958	1.9			
	930959	1.9			

RECEIVED
MAY 19 1989

RECEIVED
MAY 10 1989
@ H.H.A. 17-52

RECORDED
MAY 10 1989

Total number of mining claims covered by this report of work: **11**

Expenditures (excludes power stripping)

Type of Work Performed: **analytical**

Performed on Claim(s): **P865399, P865402, P865403**

Calculation of Expenditure Days Credits

Total Expenditures: **\$ 308.00** ÷ **15** = **20.5** Total Days Credits

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: **20.9** Date Recorded: **MAY 10/89** Mining Recorder: **[Signature]**

Date Approved as Recorded: **10 July 89** Branch Director: **[Signature]**

Date: **May 1, 1989** Recorded Holder or Agent (Signature): **[Signature]**

Certification Verifying Report of Work

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

Name and Postal Address of Person Certifying: **William O. karvinen, 32 Lakeland Pt. Dr., Kingston, Ont. K7M 4E7**

Date Certified: **Jan. 20, 1989** Certified by (Signature): **[Signature]**

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.

AMENDMENT Mining Act

Type of Survey: overburden drilling (geochemical) Township or Area: Denton Township

Claim Holder(s): William O. Karvinen 2-11589 Prospector's Licence No.: C32433

Address: 32 Lakeland Pt. Dr., Kingston, Ont. K7M 4E7

Survey Company: W.O. Karvinen & Associates Ltd. Date of Survey (from & to): 25 03 88 to 07 04 88 Total Miles of line Cut:

Name and Address of Author (of Geo-Technical report): W.O. Karvinen, 32 Lakeland Pt. Dr., Kingston Ont. K7M 4E7

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

Mining Claims Traversed (List in numerical sequence)

Mining Claim			Mining Claim		
Prefix	Number	Expend. Days Cr.	Prefix	Number	Expend. Days Cr.
P	865396	28.2			
	865397	28.2			
	865398	28.2			
	865399	28.2			
	865400	28.2			
	865401	28.2			
	865402	28.2			
	865403	28.2			
	930957	28.2			
	930958	28.2			
	930959	28.0			

RECEIVED
NOV 9 1988

ONTARIO GEOLOGICAL SURVEY
ASSESSMENT FILES
OFFICE
JAN 20 1989
RECEIVED

PORCUPINE MINING DIVISION
RECEIVED
SEP 8 1988
@ 10:20 AM
First received
Bib Buly

RECORDED
SEP 08 1988

Total number of mining claims covered by this report of work. 11

Expenditures (excludes power stripping)

Type of Work Performed: till sampling & analyses

Performed on Claim(s): 865396, 865397, 865398, 865399, 865402, 865403, 930957, 930958, 930959

Calculation of Expenditure Days Credits

Total Expenditures: \$ 4650.50 ÷ Total Days Credits: 15 = 310

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.

Date: Sept. 4, 1988 Recorded Holder or Agent (Signature): W.O. Karvinen

For Office Use Only
 Total Days Cr. Recorded: 310 Date Recorded: Sept 8 1988 Mining Recorder: [Signature]
 Date Approved as Recorded: 19 Jan 89 Branch Director: [Signature]

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

Name and Postal Address of Person Certifying: William O. Karvinen, 32 Lakeland Pt. Dr., Kingston, Ont. K7M 4E7

Date Certified: Sept. 4, 1988 Certified by (Signature): W.O. Karvinen

O. Karvinen & Associates Ltd.
22 Lakeland Point Drive
MILTON, ONTARIO K7M 4E7

MINI ENVELOPE
No 262

Bus. (613) 389-4433 Res. (613) 389-6098

TO
Esperanto Resources Ltd.,
10 Kenneth Ave., Suite 1205,
WILLOWDALE, Ontario M2N 4V6
att. Mr. Dan Fischer, President

DATE	May 19, 1988
CUSTOMER ORDER NO.	Project: Cripple Creek
SALESPERSON	Work: Geochemical Survey
DATE	Period: May 5 - May 19, 1988

TERMS: Net 30 days

QUANTITY	DESCRIPTION	PRICE	AMOUNT
49	soil sample analyses (see Barringer invoice).....	\$14.50	\$710.00
	sample handling and shipment.....		35.00
	telephone calls to lab.....		22.00
	Total:.....		\$777.00

Payment received May 31/88

DUPLICATE



Thank You!



W Karvinen

W. O. Karvinen & Associates Ltd.

32 Lakeland Point Drive
KINGSTON, ONTARIO K7M 4E7

INVOICE

No 260

Bus. (613) 389-4433 Res. (613) 389-6098

TO Esperanto Resources Inc.,
10 Kenneth Ave., Suite 1205
WILLOWDALE, Ontario M2N 4V6
att. Mr. Dan Fischer

DATE	April 20, 1988
CUSTOMER ORDER NO XXX	Project: Cripple Creek
SALES ORDER NO XXX	Work: Overburden Drilling
***	Period: March 25 to April 20, 1988

TERMS: Net 30 days

QUANTITY	DESCRIPTION	PRICE	AMOUNT
59	sites sampled by percussion drilling for till.....	\$60/site	\$3540.00
	mobilization and de-mobilization.....		400.00
	Total:.....		\$3940.00

Payment received May 31/88

W. O. Karvinen

DUPLICATE

Thank You!



May 31 19⁸⁸

Received from Esperanto Resources Limited

seven hundred & seventy-seven-----xx *Dollars*

as payment of invoice No. 262

\$ 777.00 *W. K. ...*

May 31 19⁸⁸

Received from Esperanto Resources Limited

three thousand, nine hundred & forty-----xx *Dollars*

as payment of invoice No. 260

\$ 3940.00 *W. K. ...*



304 CARLINGVIEW DRIVE
 METROPOLITAN TORONTO
 REXDALE, ONTARIO
 CANADA M9W 5G2
 PHONE: 416-675-3870
 TELEX: 06-989183

SERVICES FOR THE EARTH AND ENVIRONMENTAL SCIENCES

- W.O. Karvinen and Associates Ltd.
- Geology Department
- 32 Lakeland Point Drive
- Kingston, Ontario
- K7M - 4E7

DATE: May 16, 1988

PROJECT: 100.41

PERIOD COVERED:

SALES ORDER:

PROGRESS BILLING:

SHIPPING REPORT:

WORK REPORT: 88-1057

FED. SALES TAX: N/A

ONT. SALES TAX: N/A

TERMS: NET 30 Days

AUTHORITY: W.O. Karvinen

TO: ANALYSIS:

49 Till Samples for Preparation, Gold and 28
 Elements by Neutron Activation

\$ 14.50

\$ 710.50

Total Invoice

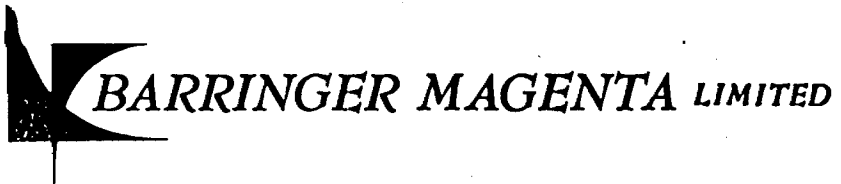
\$ 710.50

Paid
June 21/88

ENCL. WITH THIS ENVELOPE
 PLEASE FORWARD TO:
 W.O. Karvinen

INVOICE No 14857.

for assess credits.



304 CARLINGVIEW DRIVE
METROPOLITAN TORONTO
REXDALE, ONTARIO
CANADA M9W 5G2
PHONE: 416-875-3870
TELEX: 06-989183

SERVICES FOR THE EARTH AND ENVIRONMENTAL SCIENCES

W.O. Karvinen and Associates Ltd.
• Geology Department
• 32 Lakeland Point Drive
• Kingston, Ontario
• K7M - 4E7

DATE: May 16, 1988
PROJECT: 100.41
PERIOD COVERED:
SALES ORDER:
PROGRESS BILLING:
SHIPPING REPORT:
WORK REPORT: 88-1057
FED. SALES TAX: N/A
ONT. SALES TAX: N/A

TERMS: NET 30 Days

AUTHORITY: W.O. Karvinen

TO: ANALYSIS:

49	Till Samples for Preparation, Gold and 28 Elements by Neutron Activation	\$ 14.50	\$ 710.50
----	---	----------	-----------

Total Invoice			\$ 710.50
---------------	--	--	-----------

FINAL RESULTS ENCLOSED
PLEASE FORWARD TO:
W.O. Karvinen

W.O. Karvinen

INVOICE No 14857

W. O. Karvinen & Associates Ltd.

32 Lakeland Point Drive
KINGSTON, ONTARIO K7M 4E7

INVOICE

No 260

Bus. (613) 389-4433 Res. (613) 389-6098

TO Esperanto Resources Inc.,
10 Kenneth Ave., Suite 1205
WILLOWDALE, Ontario M2N 4V6
att. Mr. Dan Fischer

DATE	April 20, 1988
CUSTOMER'S ORDER	Project: Cripple Creek
SALES ORDER	Work: Overburden Drilling
***	Period: March 25 to April 20, 1988

TERMS: Net 30 days

QUANTITY	DESCRIPTION	PRICE	AMOUNT
59	sites sampled by percussion drilling for till.....	\$60/site	\$3540.00
	mobilization and de-mobilization.....		400.00
	Total:.....		\$3940.00

*Payment received
W. O. Karvinen*

DUPLICATE



Thank You!

for assess credits.



304 CARLINGVIEW DRIVE
METROPOLITAN TORONTO
REXDALE, ONTARIO
CANADA M9W 5G2
PHONE: 416-675-3870
TELEX: 06-989183

SERVICES FOR THE EARTH AND ENVIRONMENTAL SCIENCES

W.O. Karvinen and Associates Ltd.
• Geology Department
• 32 Lakeland Point Drive
• Kingston, Ontario
• K7M - 4E7

DATE: May 16, 1988
PROJECT: 100.41
PERIOD COVERED:
SALES ORDER:
PROGRESS BILLING:
SHIPPING REPORT:
WORK REPORT: 88-1057
FED. SALES TAX: N/A
ONT. SALES TAX: N/A

TERMS: NET 30 Days

AUTHORITY: W.O. Karvinen

TO: ANALYSIS:

49 Till Samples for Preparation, Gold and 28
Elements by Neutron Activation

\$ 14.50 \$ 710.50

Total Invoice

\$ 710.50

FINAL RESULTS ENCLOSED
PLEASE FORWARD TO:
W.O. Karvinen

INVOICE No 14857

W. O. Karvinen & Associates Ltd.

32 Lakeland Point Drive
KINGSTON, ONTARIO K7M 4E7

INVOICE

No 260

Bus. (613) 389-4433 Res. (613) 389-6098

TO Esperanto Resources Inc.,
10 Kenneth Ave., Suite 1205
WILLOWDALE, Ontario M2N 4V6
att. Mr. Dan Fischer

DATE	April 20, 1988
CUSTOMER ORDER NO	Project: Cripple Creek
SALES ORDER NO	Work: Overburden Drilling
***	Period: March 25 to April 20, 1988

TERMS: Net 30 days

QUANTITY	DESCRIPTION	PRICE	AMOUNT
59	sites sampled by percussion drilling for till.....	..\$60/site	\$3540.00
	mobilization and de-mobilization.....		400.00
	Total:.....		\$3940.00

DUPLICATE

Thank You!





Copy

Note: - exceeds space on this form, attach a list. Only days credits calculated in the "Expenditures" section may be entered in the "Expend. Days Cr." columns. - Do not use shaded areas below.

Mining Act

Type of Survey(s) overburden drilling (geochemical)	Township or Area Depton Township
Claim Holder(s) William O. Karvinen	Prospector's Licence No. 2.11589 C32433
Address 32 Lakeland Pt. Dr., Kingston, Ont. K7M 4E7	
Survey Company W.O. Karvinen & Associates Ltd.	Date of Survey (from & to) 25 03 88 07 04 88
Name and Address of Author (of Geo-Technical report) W.O. Karvinen, 32 Lakeland Pt. Dr., Kingston Ont. K7M 4E7	

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

RECEIVED
SEP 7 1988
MINING LANDS SECTION

Mining Claims Traversed (List in numerical sequence)

Prefix	Mining Claim Number	Expend. Days Cr.	Prefix	Mining Claim Number	Expend. Days Cr.
	865396	28.2			
	865397	28.2			
	865398	28.2			
	865399	28.2			
	865400	28.2			
	865401	28.2			
	865402	28.2			
	865403	28.2			
	930957	28.2			
	930958	28.2			
	930959	28.2			

Expenditures (excludes power stripping)

Type of Work Performed till sampling & analyses
Performed on Claim(s) 865396, 865397, 865398, 865399, 865402, 865403, 930597, 930958, 930959
Calculation of Expenditure Days Credits
Total Expenditures \$ 4650.50 + 15 = Total Days Credits 310

Total number of mining claims covered by this report of work. **11**

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
Date Approved as Recorded	Mining Recorder
	Branch Director

Date Sept. 4, 1988	Recorded Holder or Agent (Signature) <i>W. Karvinen</i>
------------------------------	--

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
William O. Karvinen, 32 Lakeland Pt. Dr., Kingston, Ont. K7M 4E7

Date Certified Sept. 4, 1988	Certified by (Signature) <i>W. Karvinen</i>
--	--

REFERENCES

AREAS WITHDRAWN FROM DISPOSITION

M.R.O. - MINING RIGHTS ONLY

S.R.O. - SURFACE RIGHTS ONLY

M.A.S. - MINING AND SURFACE RIGHTS

Description	Order No.	Date	Disposition	File
SEC. 43/70		FEB. 3/68	M. + S.	171808

BANA AND JOWSEY PARK RESERVE	S.R.O.	
SEC. 56/80	W. 06/85 NOV. 18/85	M.R.O.

RESERVED FOR PUBLIC USE	S.R.O.
-------------------------	--------

M.R.W. 96/86	S.A.S.
--------------	--------

APPLICATION FOR CROWN LAND.

SAND AND GRAVEL

M.T.C.	PIT 1417	FILE	128301
M.T.C.	PIT 1236	FILE	128301
M.T.C.	PIT 1478		
M.T.C.	PIT 1331		

THIS TOWNSHIP LIES WITHIN THE MUNICIPALITY OF THE CITY OF TIMMINS.

IMPORTANT NOTICE

THIS TOWNSHIP FORMS PART OF THE WATERBOARD FOREST MANAGEMENT AGREEMENT.

THE 1985/86 ANNUAL PLAN, ON FILE IN THE MINING RECORDER'S OFFICE, SHOWS THE AREAS TO BE AFFECTED IN THE NEXT YEAR.

IF THIS PLAN AFFECTS YOU, FURTHER INFORMATION MAY BE OBTAINED FROM:

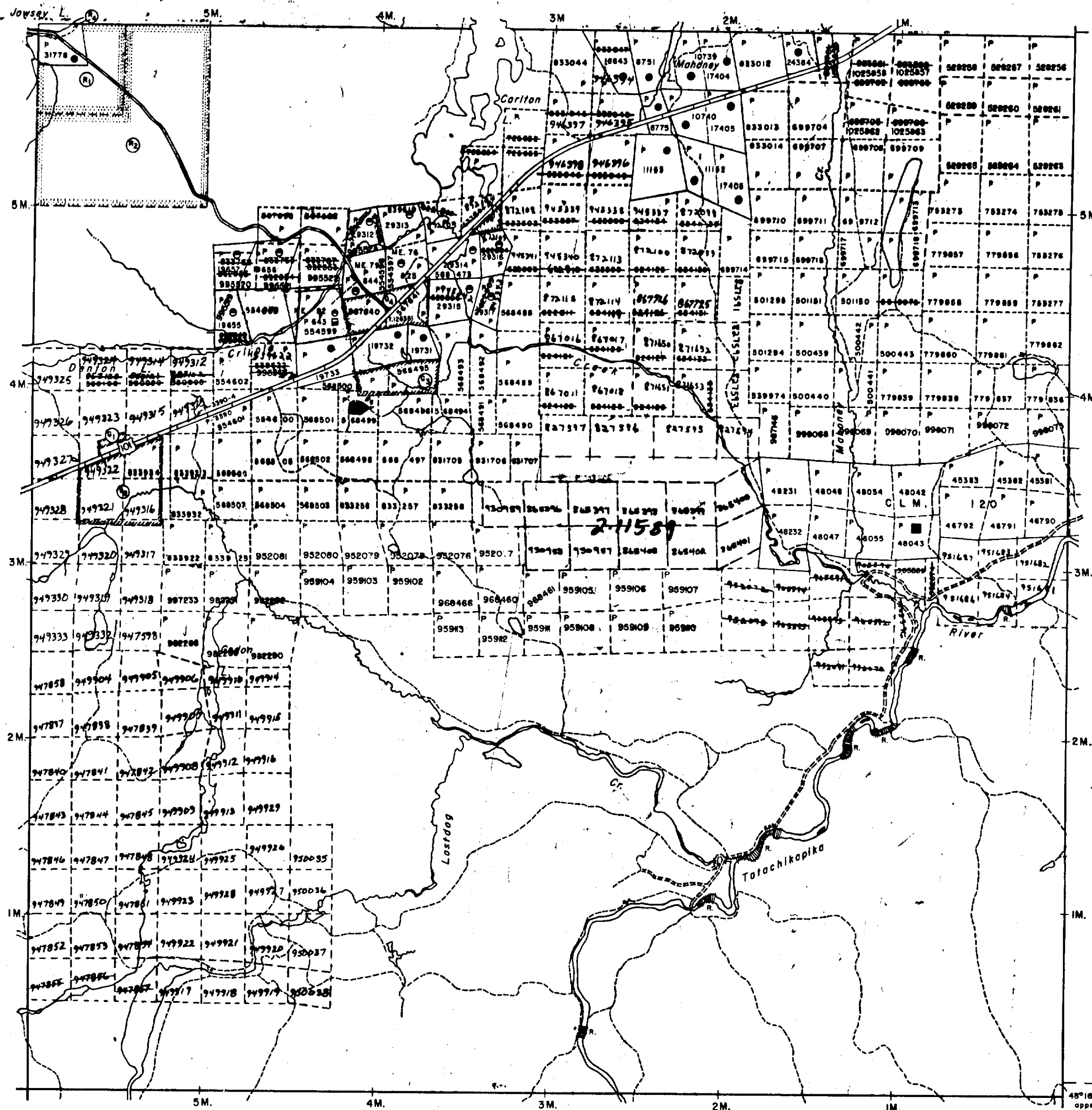
MR. MALCOLM KILGOUR,
UNIT FORESTER,
MINISTRY OF NATURAL RESOURCES,
896 Riverside Drive,
Timmins, Ontario

Tel: 705-267-7951

OR

Mr. Pierre Corbell,
Waterboard Group
Tel: 705-268-1462

CARSCALLEN TWP.



REYNOLDS TWP.

LEGEND

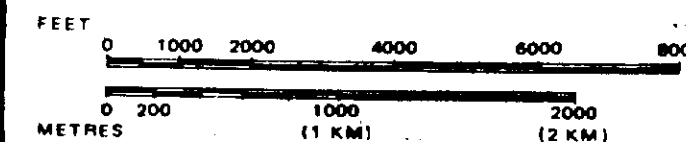
- HIGHWAY AND ROUTE No.
- OTHER ROADS
- TRAILS
- SURVEYED LINES:
 - TOWNSHIPS, BASE LINES, ETC.
 - LOTS, MINING CLAIMS, PARCELS, ETC.
- UNSURVEYED LINES:
 - LOT LINES
 - PARCEL BOUNDARY
 - MINING CLAIMS ETC.
- RAILWAY AND RIGHT OF WAY
- UTILITY LINES
- NON-PERENNIAL STREAM
- FLOODING OR FLOODING RIGHTS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

NOTE: MINING RIGHTS IN PARCELS PATENTED PRIOR TO MAY 1 1913, VESTED IN ORIGINAL PATENTEE BY THE PUBLIC LANDS ACT, R.S.O. 1970, CHAP. 300, SEC. 63, SUBSEC. 1

SCALE: 1 INCH = 40 CHAINS



TOWNSHIP

DENTON

M.N.R. ADMINISTRATIVE DISTRICT

TIMMINS

MINING DIVISION

PORCUPINE

LAND TITLES / REGISTRY DIVISION

COCHRANE

Date MARCH, 1985

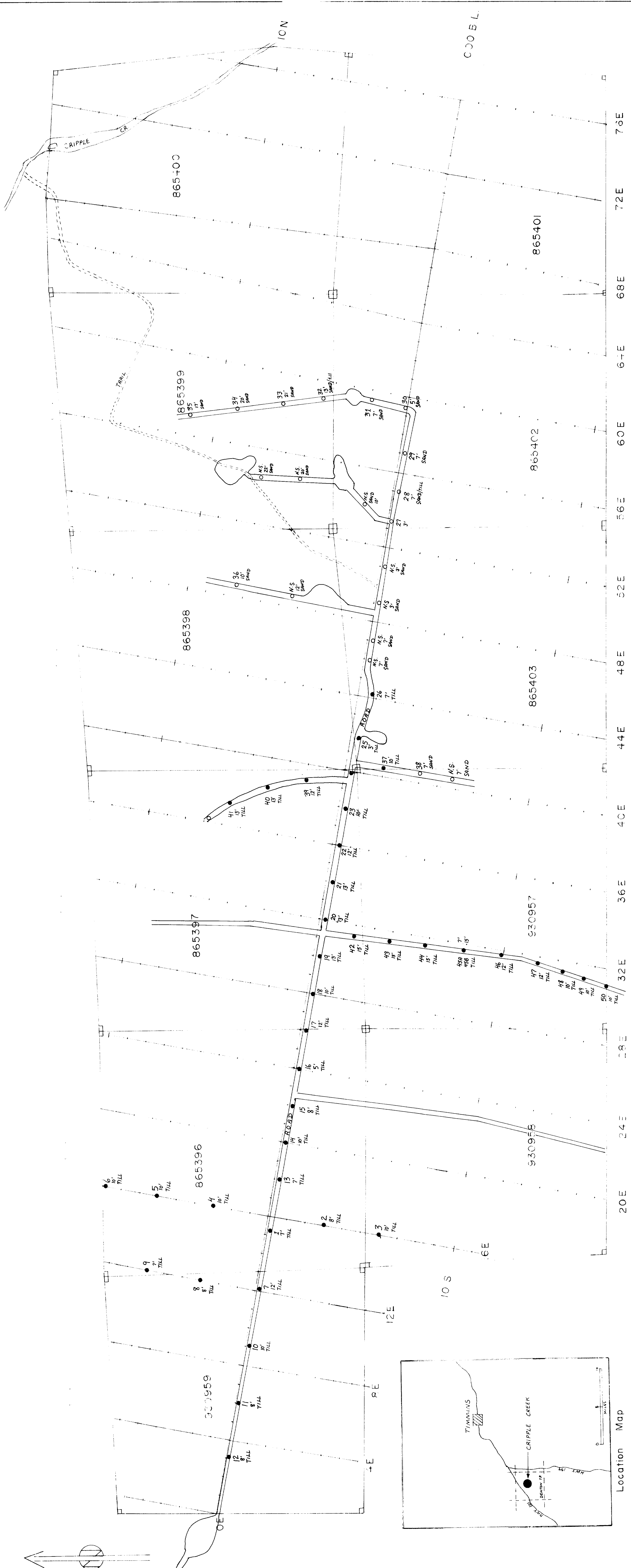
Number

G-3224



42A055E0116 2-11589 DENTON

RECEIVED NOV 4 1989



● 21' - SAMPLE NUMBER
 10' - DEPTH
 TILL ← SAMPLE TYPE
 ● TILL
 ○ SAND

TILL SAMPLE SITES
2.11589

CRIPPLE CREEK GOLD PROPERTY

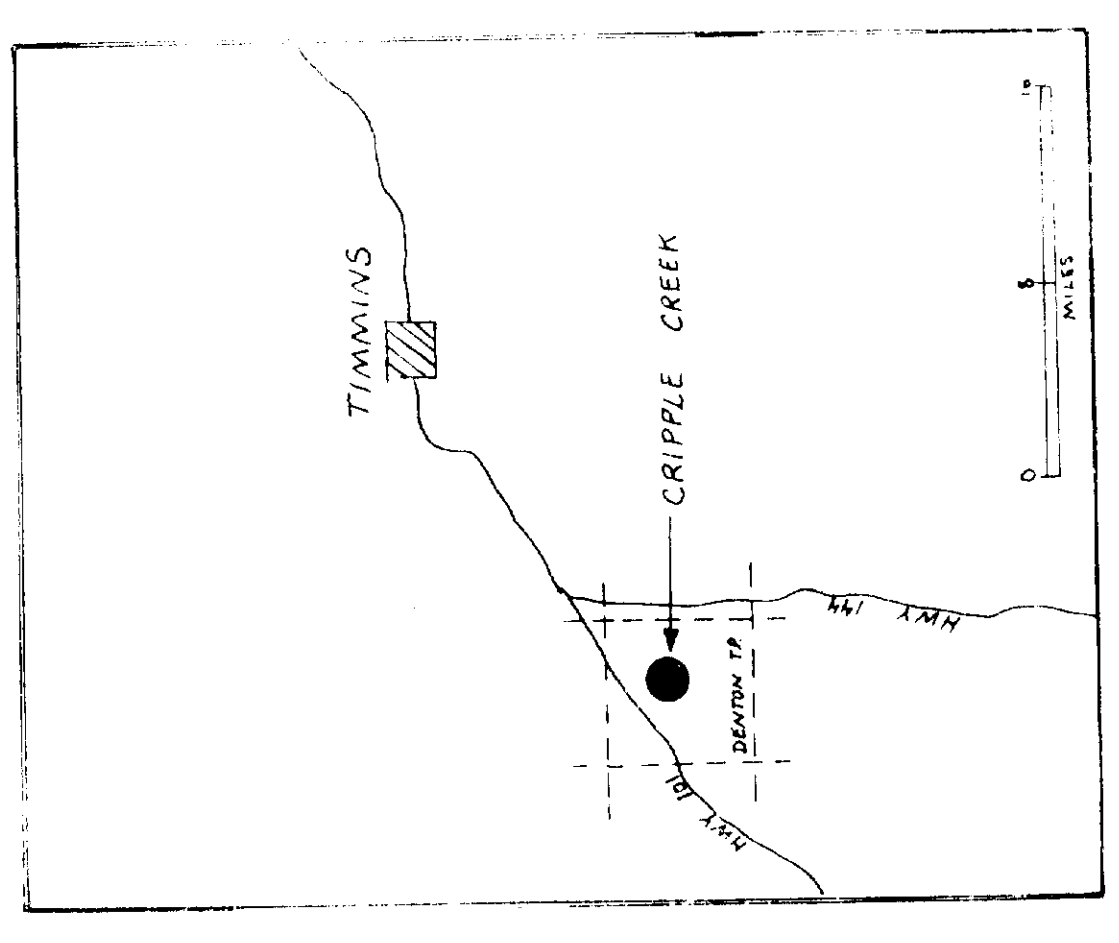
TME RESOURCES INC.

W. O. Karvinen
April 1988

Survey By:
 W. O. Karvinen & Associates Ltd.

APRIL 1988

Scale: 1 in. = 200 ft.



Location Map

