

008336

98HNE ~~002-07~~  
Property File  
REGIONAL FILE - 92HNE  
Also ~~98HNE046~~

92 H/16E 2,46

REPORT  
ON THE  
SALT MINERAL CLAIM (20 UNITS)  
RECORD NO. 790(1)  
ASPEN GROVE - TOMMY LAKE AREA  
NICOLA MINING DIVISION  
PRINCETON, BRITISH COLUMBIA  
N. Lat.  $49^{\circ}57'$  W. Long.  $120^{\circ}29'$

for

OMENICA RESOURCES LTD.  
Suite 980 - 789 West Pender Street  
Vancouver, British Columbia

by

DONALD W. TULLY, P. ENG.

October 29, 1980

West Vancouver, B.C.

DON TULLY ENGINEERING LTD.  
SUITE 102 - 2222 BELLEVUE AVENUE  
WEST VANCOUVER, BRITISH COLUMBIA  
V7V 1C7

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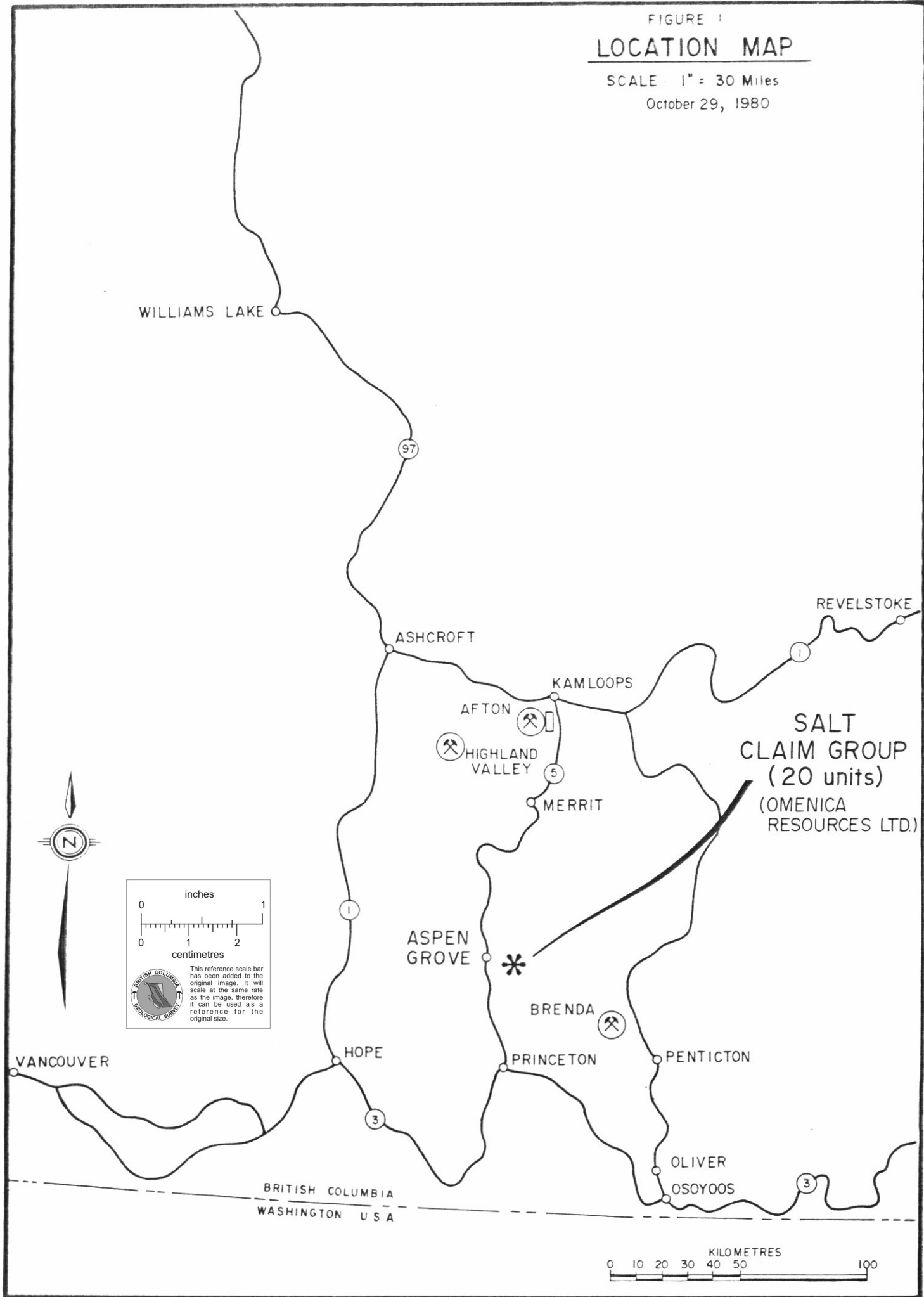
MAPS

Figure 1 - Location Map.....	(Frontispiece)
Figure 2 - Topographic Plan (after 92H/15E-16W).....	(Following page 1)
Figure 3 - Claim Plan (after M92H/15E-16W).....	(Following page 2)
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Figure 7 - Profile of MAX-MIN survey results on Line 700s.....	(Following page 7)
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FIGURE 1  
**LOCATION MAP**

SCALE: 1" = 30 Miles

October 29, 1980





## INTRODUCTION

This report was written pursuant to a request by Omenica Resources Ltd., Suite 980 - 789 West Pender Street, Vancouver, British Columbia.

The purpose of this report is to evaluate the results of the recent exploration work and the mineral potential of the SALT claim for mine-making possibilities.

The writer examined the field work in February, April, June and August, 1980.

A program of diamond drill exploration is recommended.

## SUMMARY AND CONCLUSIONS

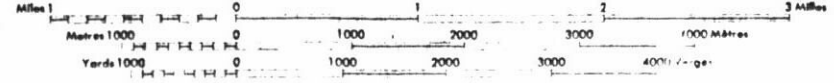
The SALT mineral claim comprises twenty units, located in the Nicola Mining Division some eleven kilometres east of the hamlet of Aspen Grove and some thirty-three kilometres south of the Town of Merritt, British Columbia. Access is available to the property from Highway 5 going eastward from a point about nine kilometres south of Aspen Grove to the claim area (Figure 2).

About two kilometres north of the claim area, considerable exploration work consisting of geophysical, geochemical and geological surveying, bulldozer trenching and diamond drilling was done in the period 1961-62 and again in 1968.

Geologically the claim area is underlain by facies

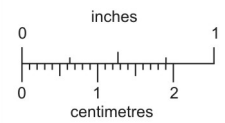
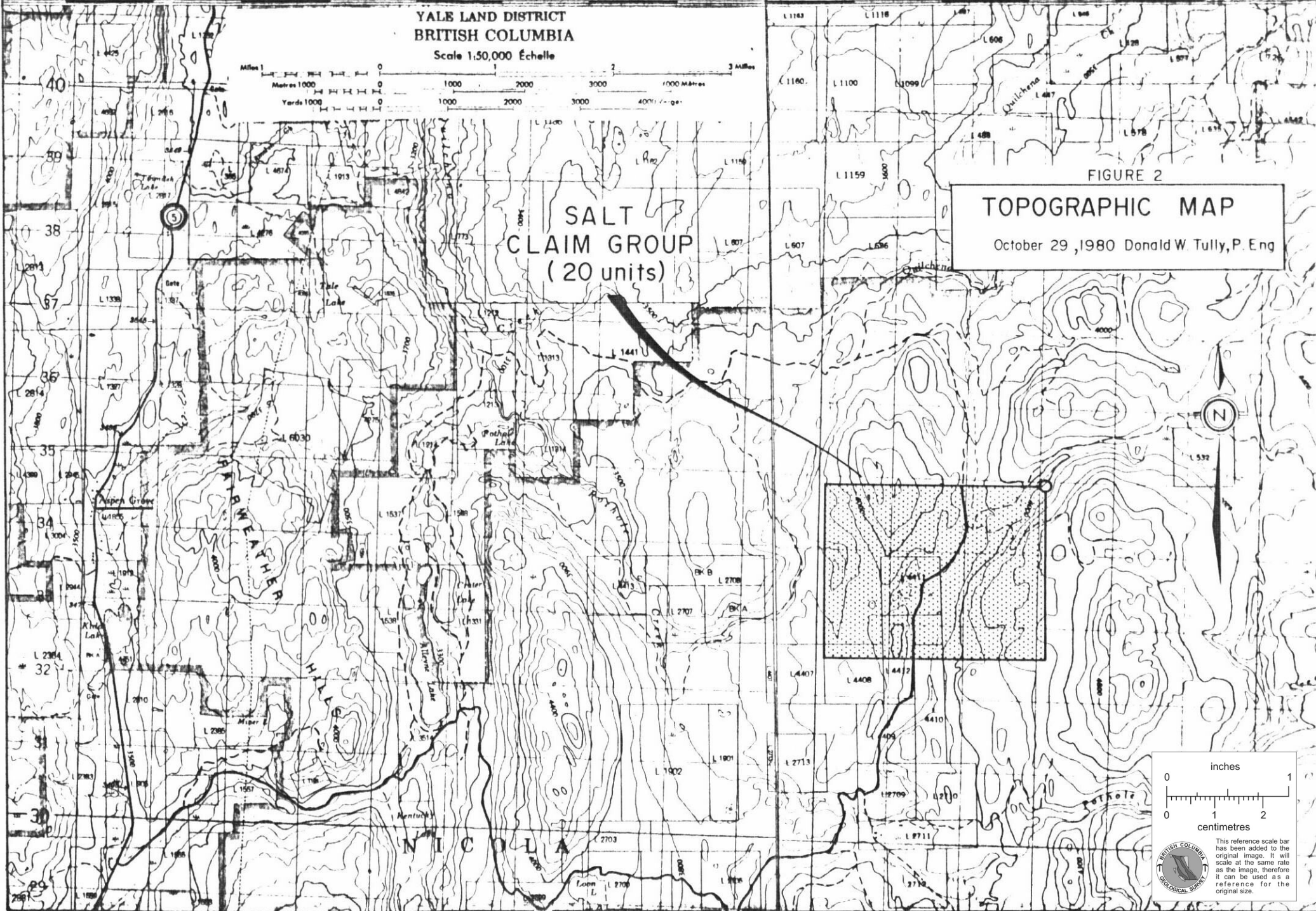
69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85  
Merrill 78 km  
250000m. E.  
120°30'

YALE LAND DISTRICT  
BRITISH COLUMBIA  
Scale 1:50,000 Échelle



SALT  
CLAIM GROUP  
(20 units)

FIGURE 2  
TOPOGRAPHIC MAP  
October 29, 1980 Donald W. Tully, P. Eng



This reference scale bar has been added to the original image. It will scale at the same rate as the image, therefore it can be used as a reference for the original size.



of the Nicola Group of volcanic rocks in the Aspen Grove Copper Belt. Contact phases and a satellite mass of the Pennask Batholith occur to the northwest of the proximity of the Salt claim. The structures generally trend north to slightly west of north and occur on the east limb of a synclinal. Numerous copper occurrences with gold and silver occur in the immediate geological environment.

Two anomalous zones denoted "A" and "B" were indicated from a combined VLF electromagnetic and magnetometer survey done in February and March, 1980. One of these anomalies in the northeast sector of the claim area was trenched in July of this year but it was found that the overburden was too deep to reach bedrock to examine the cause of the anomaly (Figure 5).

A MAX-MIN electromagnetic survey was begun later in October 1980 in the area of the previously indicated anomalous zones. This work is still in progress and has shown a diamond drill target in the area of the previous program of bulldozer trenching (Figures 5 and 6).

A two-stage program of diamond drill exploration is recommended at an estimated total cost of \$152,208.

#### PROPERTY - LOCATION, ACCESS, PHYSIOGRAPHY

The property is located about eleven kilometres east of Aspen Grove, British Columbia (Figure 1).

Road access is available to the claim area from a point some nine kilometres south of Aspen Grove on Highway No. 5, thence eastward, a road distance of about twenty-five kilometres to the ground (Figure 2).







A logging road, locally marked 5116, trends northward through the claim. Water for any immediate industrial need is rather scarce in the claim area.

Elevations vary from about 3,800 feet above sea-level to some 4,600 feet over the ground. Second-growth forest of pine, spruce, fir, poplar and brush cover the claim area.

### CLAIMS

The SALT claim consists of 20 units located in the Nicola Mining Division, Tommy Lake-Aspen Grove area, British Columbia. Information on file with the British Columbia Ministry of Energy, Mines and Petroleum Resources at Merritt on October 29, 1980, was as follows:

<u>Claim Name</u>	<u>Units</u>	<u>Number</u>	<u>Date Recorded</u>	<u>Recorded Holder</u>
SALT	4x5 = 20	790(1)	January 28, 1980	Omenica Resources Ltd.

The claim is shown on B.C. mineral claim map M92/H - 16W (Figure 3).

The name of the owner of surface lot 4411 (Figures 2 and 3) is registered at the Land Registry Office, Kamloops, British Columbia. The legal search for title is beyond the scope of this report.

### HISTORY - PREVIOUS DEVELOPMENT

In 1961, part of the ground held by the present SALT claim was claimed by the WEN 1-14 and HN 1-18 and held

by Skeena Silver Mines Ltd. In 1962, bulldozer stripping was performed, and an electromagnetic survey was done over part of the present SALT claim, when part of this ground was held by the Malachite 1-14 and the Chalcocite 1-18 mineral claims.

The following historical description of the Princeton-Aspen Grove Copper Belt is excerpted from Geological Survey of Canada Memoir 243, page 90:

" North from Copper Mountain to the border of Princeton map-area is an area several miles long along which copper prospects, including those of the Aspen Grove Copper Camp, are numerous. At the south end of this belt, just northeast of Princeton, are three prospects, the Shamrock, Lucky Strike and Dry Creek, that occur in or close to large granitic bodies or close to apophyses from them, and are clearly related to these bodies. The deposits are of the contact metamorphic type, and chalcopyrite and pyrite with, in the Dry Creek prospect, galena and sphalerite, are the ore-bearing minerals. One property of this type, the King George, occurs to the southeast of Missezula Lake. The remaining deposits consist of chalcopyrite, bornite, chalcocite, and, rarely pyrite, occur in fractures and disseminated grains in Nicola volcanic rocks. No intrusive rocks are known to be related to them, and their only structural connection seems to be their common occurrence along the trend of the faults up Allison Valley and Summers Creek. These faults if projected to the south across the area covered by the Princeton lavas and sediments would extend into the Copper Mountain area. It is surely more than a coincidence that deposits whose

" mineral constituents should be so conspicuously like those of Copper Mountain should occur dotted along a line of faulting extending north from Copper Mountain. If, as suggested by these considerations, the Aspen Grove copper deposits originated from solutions genetically connected with those that produced the Copper Mountain ores, and that these solutions entered the host rock through channels afforded by the fault zones mentioned above, it is odd that no member of the Copper Mountain intrusions, to which the mineralizing solutions would also be related has been seen along this belt. Perhaps such intrusions are present. "

In 1968, Consolidated Skeena Mines had an induced polarization survey done over part of the present SALT claim area. This survey by Barringer Research Limited indicated areas of apparent conductivity but according to the record the relationship of conductivity-low resistivity and sulphide mineralization was not proven by drilling.

In February-March, 1980 a reconnaissance program of combined VLF electromagnetic and magnetometer surveying was carried out. Some detail follow-up survey work was done in April and a program of bulldozer trenching was carried out in July on one of the indicated anomalous zones. Two apparent electromagnetic conductor zones denoted "A" and "B" resulted from this work.

A MAX-MIN electromagnetic survey is currently in progress over those previously indicated anomalous areas. This MAX-MIN survey has indicated a diamond drill target zone in the northeast sector of the claim area (Figures 7 and 8).



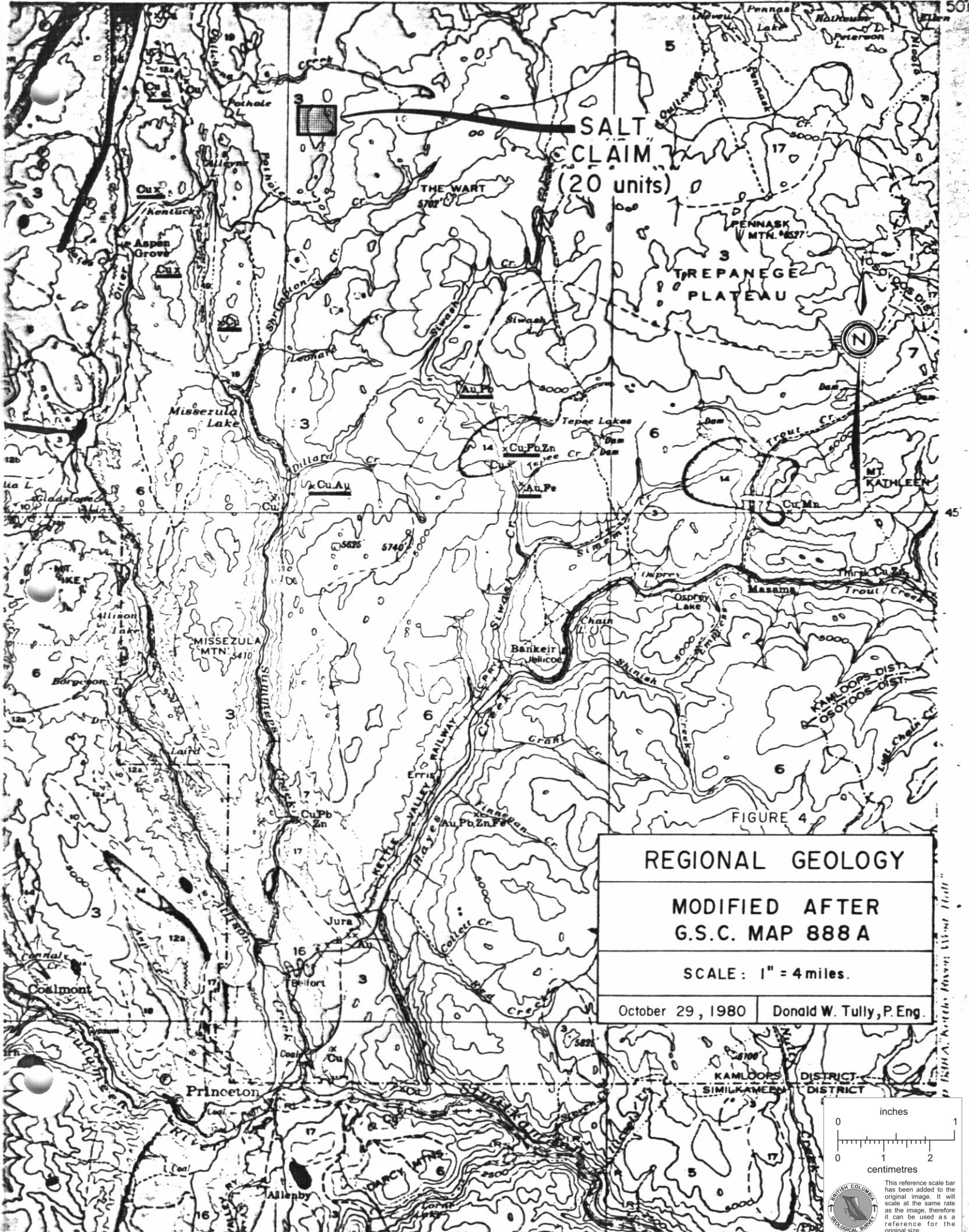


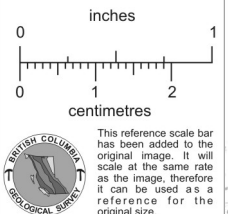
FIGURE 4

**REGIONAL GEOLOGY**

MODIFIED AFTER  
G.S.C. MAP 888 A

SCALE: 1" = 4 miles.

October 29, 1980 | Donald W. Tully, P. Eng.



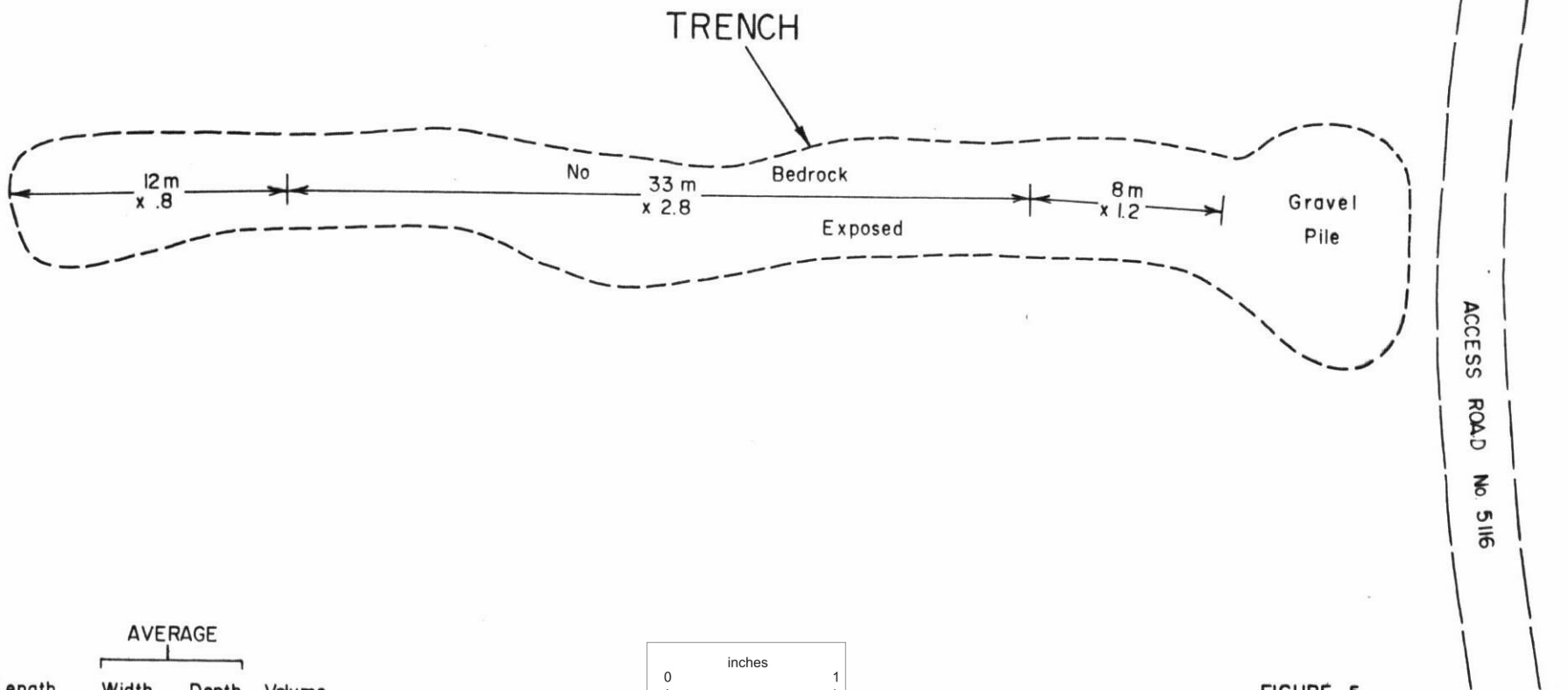
REFERENCES

1. Minister of Mines and Petroleum Resources Annual Reports for the years 1961 and 1962 (Aspen Grove Area)
2. Geological Survey of Canada Memoir 243 by H.M.A. Rice and accompanying maps 888A and 889A
3. British Columbia Ministry of Energy, Mines and Petroleum Resources Bulletin 69
4. Report by W.M. Sharp, P.Eng., (Deceased) dated January 15, 1969 entitled "Summary Report 69-1, Geological-Geochemical-Geophysical Exploration, Tommy Lake, Boot Lake Area, Nicola M.D. (Private report)
5. Summary Report on Geological, Geochemical and Geophysical Investigations of the Tommy Lake-Paradise Lake Property for Consolidated Skeena Mines Ltd. (NPL) by W.M. Sharp, P.Eng., dated July 25, 1968 (Private report)
6. Report on the SALT Mineral Claim for Denu Mines and Development Ltd., dated February 26, 1980, by Donald W. Tully, P. Eng.
7. Progress reports on the SALT Mineral Claim dated April 23, September 20 and 30, 1980, by Donald W. Tully, P.Eng.

REGIONAL AND LOCAL GEOLOGICAL SETTING

The area is underlain by Nicola volcanics in the west contact area of the Pennask Pluton. The regional trend of the rock structures is north to slightly west of north. The major underlying structural feature is a synclinal axis trending north-south lying a few kilometres west of the claim area.

A tentative timetable of geologic events for the claim area is as follows:



Length m	AVERAGE			Volume m <sup>3</sup>
	Width m	Depth m		
12	x 5.1	x 0.8		48.96
33	x 4.4	x 2.8		406.56
<u>8</u>	x 4.8	x 1.2		<u>46.08</u>
<u>53</u>				<u>501.60</u> m <sup>3</sup>

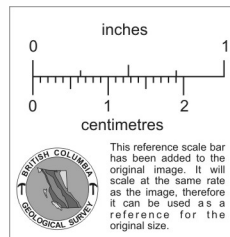


FIGURE 5

OMENICA RESOURCES LTD.

SALT CLAIM-Unit 2W.-2S.

REC. No. 790 (I)

BULLDOZER TRENCH

SCALE 1cm = 3m

SEPTEMBER 30, 1980

DONALD W. TULLY; P.ENG.

REVISED OCT. 29, 1980

<u>Formation</u>	<u>Description/Event</u>	<u>Age</u>
Sand, gravel and loam	Unconsolidated (Erosional unconformity)	Quaternary
Mineralization, metamorphism and hydrothermal alteration	Gold, silver, with oxides and sulphides of copper, iron and molybdenum and associated quartz veining  (Faulting, folding and related tectonic activity associated with the several events surrounding the intrusion of the Pennask Pluton and satellite masses)	Tertiary (?)
Pennask Pluton Complex	Granodiorite, granitic phases diorite and related secondary interaction dykes  (Faulting, folding and related tectonic activity)	Jurassic
Nicola Volcanics	Basalt, andesite with related fragmental rocks, pelitic sediments and minor conglomerate	Upper Triassic

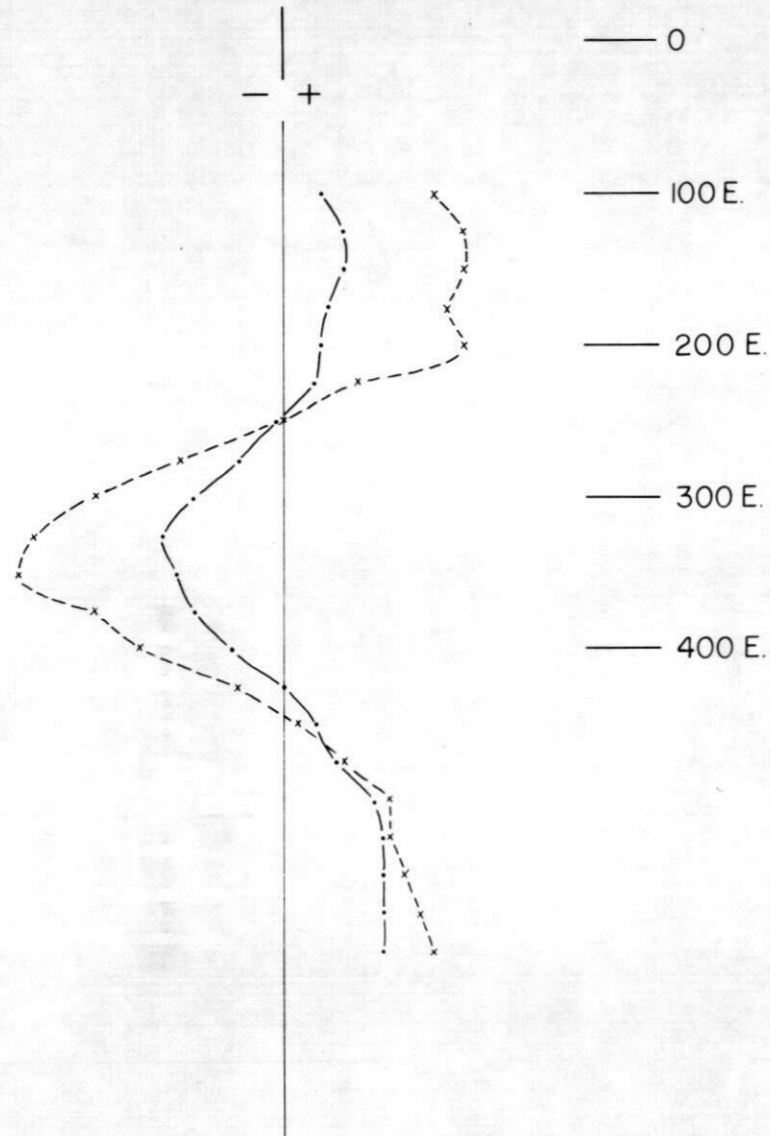
Strikes and dips on rock outcrops in the claim area trend northerly and are frequently dragfolded with steep easterly dips.

#### RESULTS OF THE 1980 PROGRAM OF MINERAL EXPLORATION

A combined VLF electromagnetic and magnetometer survey was done on a reconnaissance basis with lines 200 metres apart over the claim area (Figure 6). Detail surveying was done in the area of two zones of apparent



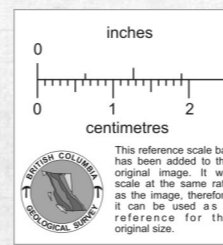
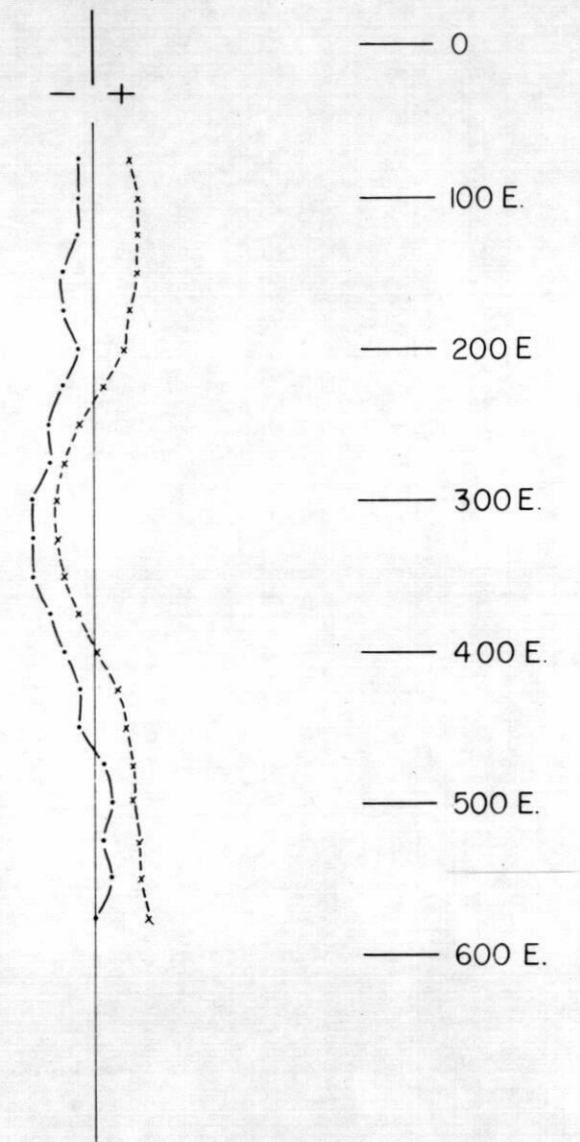
FREQ. 1777  
LINE 700 S.



# SALT CLAIM

200 m CABLE

FREQ. 444  
LINE 700 S.



### LEGEND

- x—x—x— IN-PHASE
- - - - - OUT-PHASE
- 1cm = 10%

FIGURE 7

OMENICA RESOURCES LTD.
<b>MAX-MIN EM PROFILE</b> <b>LINE 700 S.</b>
COURTESY GEOTRONICS SURVEYS LTD.
SCALE 1: 5000
October 29, 1980

electromagnetic conductors denoted "A" and "B". A total of 35.30 line-kilometres of survey were completed. Magnetic response was relatively moderate over the claim area and considering the recon nature of the survey the correlation with the electromagnetic results was not recognizable.

Zone "A" is located in the northeast sector of the claim along the west side of access road #5116 as shown on Figure 6. Zone "B" is located in the south central area of the property.

Zone "A" trends north-south for a strike length of about 350 metres. A bulldozer trench failed to reach bedrock beneath a gravel overburden of considerable depth (Figures 5 and 6). Zone "B" appears to be a complex of short apparent electromagnetic conductors spread over a north-south trend of some 600 metres, that extends to the south boundary of the property at the baseline (Figure 6).

A MAX-MIN electromagnetic survey was commenced in October 1980 on Zone "A" and a preliminary profile of the readings over lines 600s, 700s and 800s are shown on Figures 7 and 8. The results suggest more than one conductor is present. The intensity of the In-Phase and Out-of-Phase readings indicate this area should be tested by diamond drilling. The MAX-MIN survey is still in progress at the time of writing.

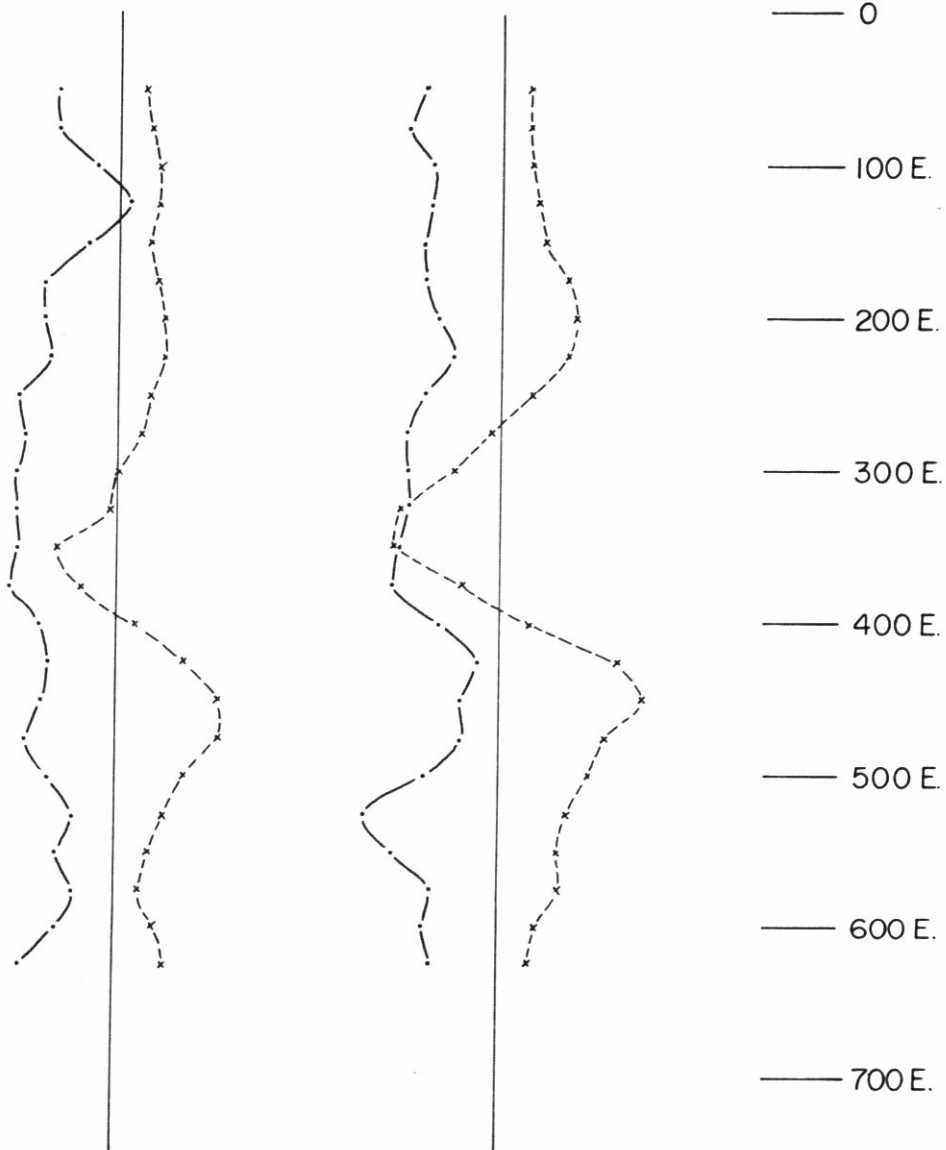
#### RECOMMENDATIONS

It is recommended the anomalous results obtained in the area of Zone "A" be tested with a two-stage program of diamond drilling. In addition, further MAX-MIN work is

# SALT CLAIM

FREQ. 1777  
LINE 800 S.

FREQ. 1777  
LINE 600 S.



## LEGEND

- x-x-x-x- IN-PHASE
- ..... OUT-PHASE

1cm = 10 %

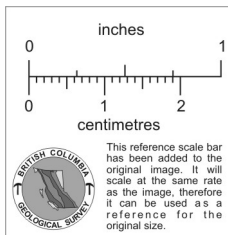


FIGURE 8

OMENICA RESOURCES LTD.

MAX-MIN EM PROFILE  
LINE 800 S.

COURTESY GEOTRONICS SURVEYS LTD.

SCALE 1: 5000

October 29, 1980

proposed for Zobe "B". The perimeter of the claim area should be established by careful chain and compass survey to protect the title of the property.

ESTIMATED COST OF THE PROPOSED WORK PROGRAM

Stage I

Four diamond drill holes each 150 metres (492 feet) in length of BQ size core		
4x150m = 600 m (1968 ft. x \$28/ft)		\$55,104
Mobilization and demobilization	5,000	
Transport water for drilling	10,000	
Core-handling, assaying, travel, supervision, engineering report	<u>6,000</u>	<u>21,000</u>
Estimated total cost Stage I		\$ 76,104

Stage 2

Contingent upon the results of the diamond drill program in Stage 1 and an engineering evaluation recommending a continuation of the program of diamond drill testing it is proposed to drill another four holes under similar cost conditions to Stage 1.

Estimated total cost Stage 2	<u>76,104</u>
Estimated total cost Stages 1 and 2	<u>\$152,208</u>

Respectfully submitted,

*Donald W. Tully*

Donald W. Tully, P. Eng.

October 29, 1980



CERTIFICATE

I, DONALD WILLIAM TULLY, of the City of West Vancouver, Province of British Columbia, hereby certify as follows:

- 1) I am a Consulting Geologist with an office at Suite 102, 2222 Bellevue Avenue, West Vancouver, B.C.
- 2) I am a registered Professional Engineer of the Provinces of British Columbia and Ontario.
- 3) I graduated with a degree of Bachelor of Science, Honours Geology, from McGill University in 1943.
- 4) I have practiced my profession for thirty-five years.
- 5) I have no direct, indirect or contingent interest in the shares of Omenica Resources Ltd., or the SALT mineral claim, subject of this report, nor do I intend to have any interest.
- 6) This report dated October 29, 1980 is based on personal field examinations made in February, April, June and August, 1980, and from information gathered from available maps and reports.
- 7) Written permission from the author is required to publish this report dated October 29, 1980 in any Prospectus or Statement of Material Facts.

DATED at West Vancouver, Province of British Columbia, this 29th day of October, 1980.

*Donald W. Tully*

Donald W. Tully, P. Eng.,  
Consulting Geologist

DIRECTION CHANGE VLF FIELD

+60°  
+40°  
+20°  
0  
-20°  
-40°  
-60°

+60°  
+40°  
+20°  
0  
-20°  
-40°  
-60°

+60°  
+40°  
+20°  
0  
-20°  
-40°  
-60°

+60°  
+40°  
+20°  
0  
-20°  
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+60°  
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-40°  
-60°

+60°  
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+20°  
0  
-20°  
-40°  
-60°

+60°  
+40°  
+20°  
0  
-20°  
-40°  
-60°

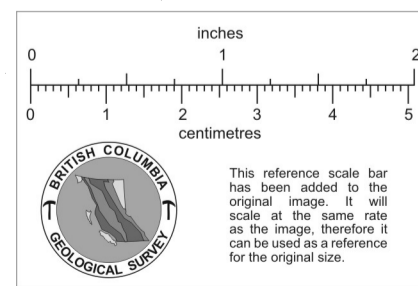
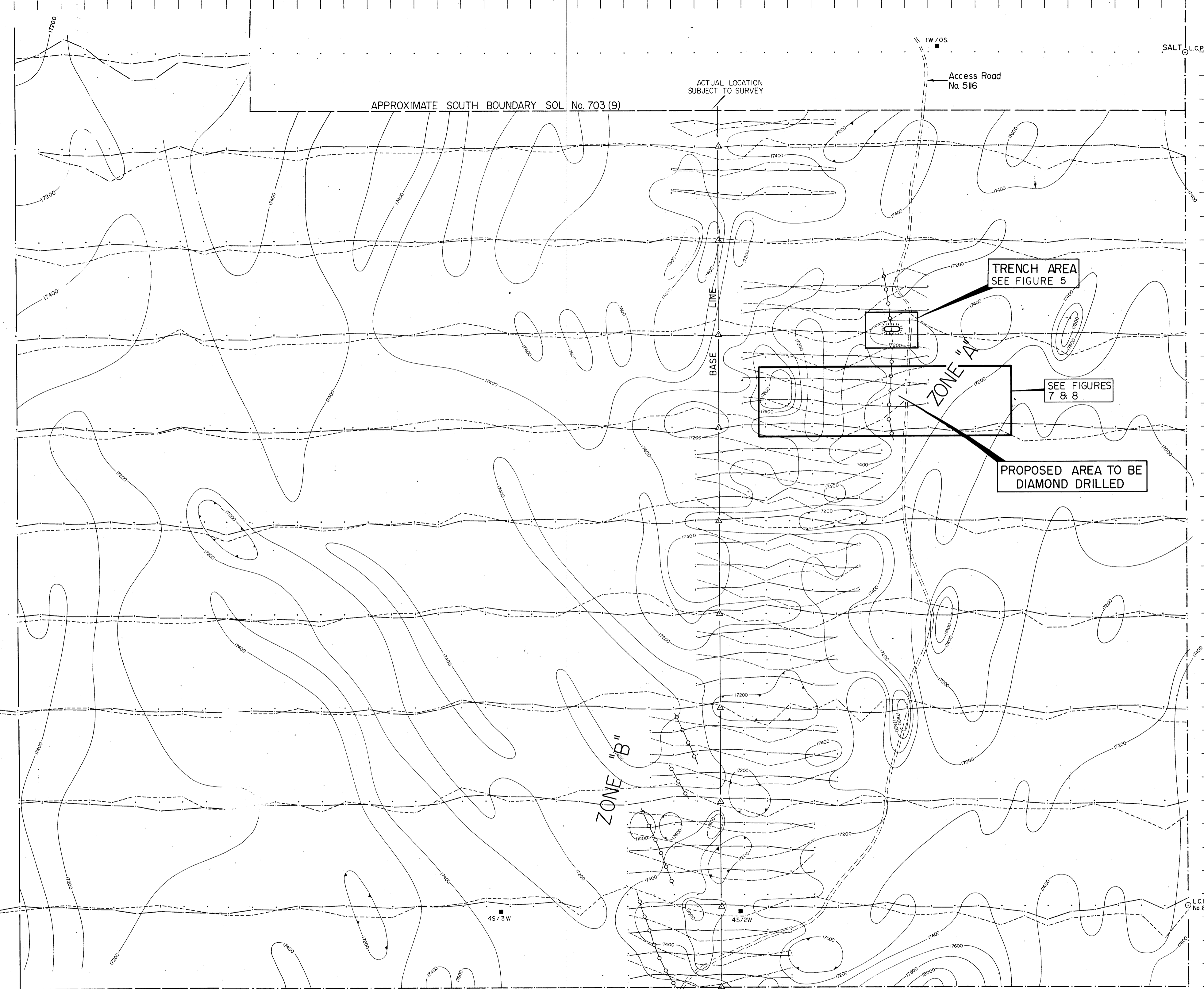
+60°  
+40°  
+20°  
0  
-20°  
-40°  
-60°

+60°  
+40°  
+20°  
0  
-20°  
-40°  
-60°

+60°  
+40°  
+20°  
0  
-20°  
-40°  
-60°

+60°  
+40°  
+20°  
0  
-20°  
-40°  
-60°

1500 W 1450 W 1400 W 1350 W 1300 W 1250 W 1200 W 1150 W 1100 W 1050 W 1000 W 950 W 900 W 850 W 800 W 750 W 700 W 650 W 600 W 550 W 500 W 450 W 400 W 350 W 300 W 250 W 200 W 150 W 100 W 50 W B.L. O 50 E 100 E 150 E 200 E 250 E 300 E 350 E 400 E 450 E 500 E 550 E 600 E 650 E 700 E 750 E 800 E 850 E 900 E 950 E 1000 E

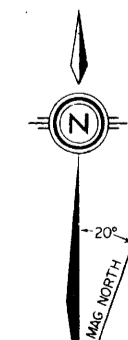


EXPLANATION

- STATION (FLAGGED)-LOCATION BY CHAIN AND COMPASS
- IW/4S (CLAIM UNIT POST) (LOCATION APPROX.)
- LCP (LEGAL CORNER POST)
- ==== LOGGING ROAD
- TRAIL
- CREEK
- △ MAGNETOMETER BASE STATION

- IN-PHASE READING
- MAGNETOMETER READING
- QUADRATURE READING
- IN-PHASE PROFILE (VERTICAL)
- QUADRATURE PROFILE (VERTICAL)
- (200) MAGNETIC CONTOUR - INTERVAL 200 GAMMAS
- LOW MAGNETIC DEPRESSION CONTOUR
- APPARENT ELECTROMAGNETIC CONDUCTOR ZONE

■ CLAIM POST - FIELD LOCATION (APPROX.)



DIRECTION OF EM-R READINGS  
NLK (SEATTLE)

FIELD WORK PERIOD - FEB 25-29, 1980  
MARCH 9-16, 1980

INSTRUMENT USED  
RONKA (VLF) EM-16 No. 89  
CONI-MAG MAGNETOMETER No. 00147

REVISED OCT 29, 1980

FIGURE 6

<b>OMENICA RESOURCES LTD.</b>	
ELECTROMAGNETIC (VLF)-MAGNETOMETER E.M. PROFILES-ISOMAGNETIC CONTOURS	
<b>SALT CLAIM No. 790 (1)-20 UNITS</b>	
ASPEN GROVE-TOMMY LAKE AREA NICOLA, M.D. PRINCETON, B.C.	
METRES 50 0 50 100 150 200 250 METRES	
DONALD W. TULLY, P. ENG.	DATE: APRIL 21, 1980

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