

81-713
-9421

ELECTRO-MAGNETIC

AND

MAGNETIC SURVEYS

ON

THE VALE AND BILL M.C.

IN THE

SIMILKAMEEN M.D.

MAP 92H/6W

Latitude 49°27'N Longitude 121°01'W

FOR

HULDRA SILVER INC.

E. LIVGARD, B.Sc., P.Eng.

LIVGARD CONSULTANTS LTD.
Vancouver, B.C.

AUGUST 20, 1981

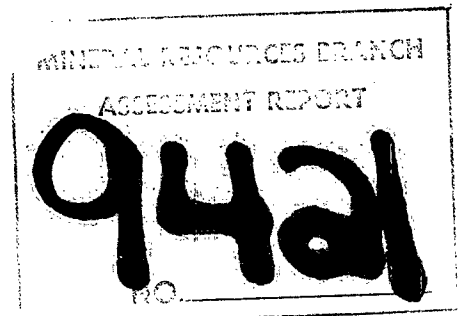


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FIGURES

FIGURE 1	E.M. SURVEY	Scale 1:2500
FIGURE 2	E.M. SURVEY Contoured & Claims	Scale 1:2500
FIGURE 3	MAGNETIC SURVEY	Scale 1:2500
FIGURE 4	E.M. SURVEY Contoured	Scale 1:2500

INTRODUCTION

A geophysical survey consisting of electro-magnetic and magnetic readings was carried out over part of the Vale and Bill mineral claims at the request of Magnus Bratlien, President of Huldra Silver Inc.

The E.M. Survey was carried out by Steve Presunka, and Magnus Bratlien acted as helper. The magnetic survey was carried out by Paul Presunka. The writer supervised the survey.

Mr. S. Presunka is a very able geophysical instrument man and has long experience in the field.

The survey was carried out from June 19th through 28th, 1981.

PROPERTY

The property consists of the following reverted Crown-grants and staked claims:

REVERTED CROWN-GRANTS

RECORD NO.

WHY NOT FR.	377
WHY NOT FR. #3	378
Eureka Fr.	379
Tamarac	380
Tamarac #2	381
LakeView	382
WHY NOT #2	383

STAKED CLAIMS

Heidi 1-3	1289-1291
John	712(8) 8 Units
Hill	569 (5) 6 Units
Vale	570 (5) 8 Units
Bill 1-6	404-409
Summit Fr.	583

All reverted Crown-grants and claims are owned by Huldra Silver.

LOCATION AND ACCESS

The claims are in the Similkameen Mining Division, Map Sheet 92H/6 at the headwaters of Tulameen River about 20 miles southwest of the Town of Tulameen.

The claims can be reached by a dirt road from Tulameen. The road is not kept open in winter.

TOPOGRAPHY

The claims lie at an elevation of about 4,000 feet on a part of the south slopes of Treasure Mountain, and on the river flat adjacent to it.

INSTRUMENTS

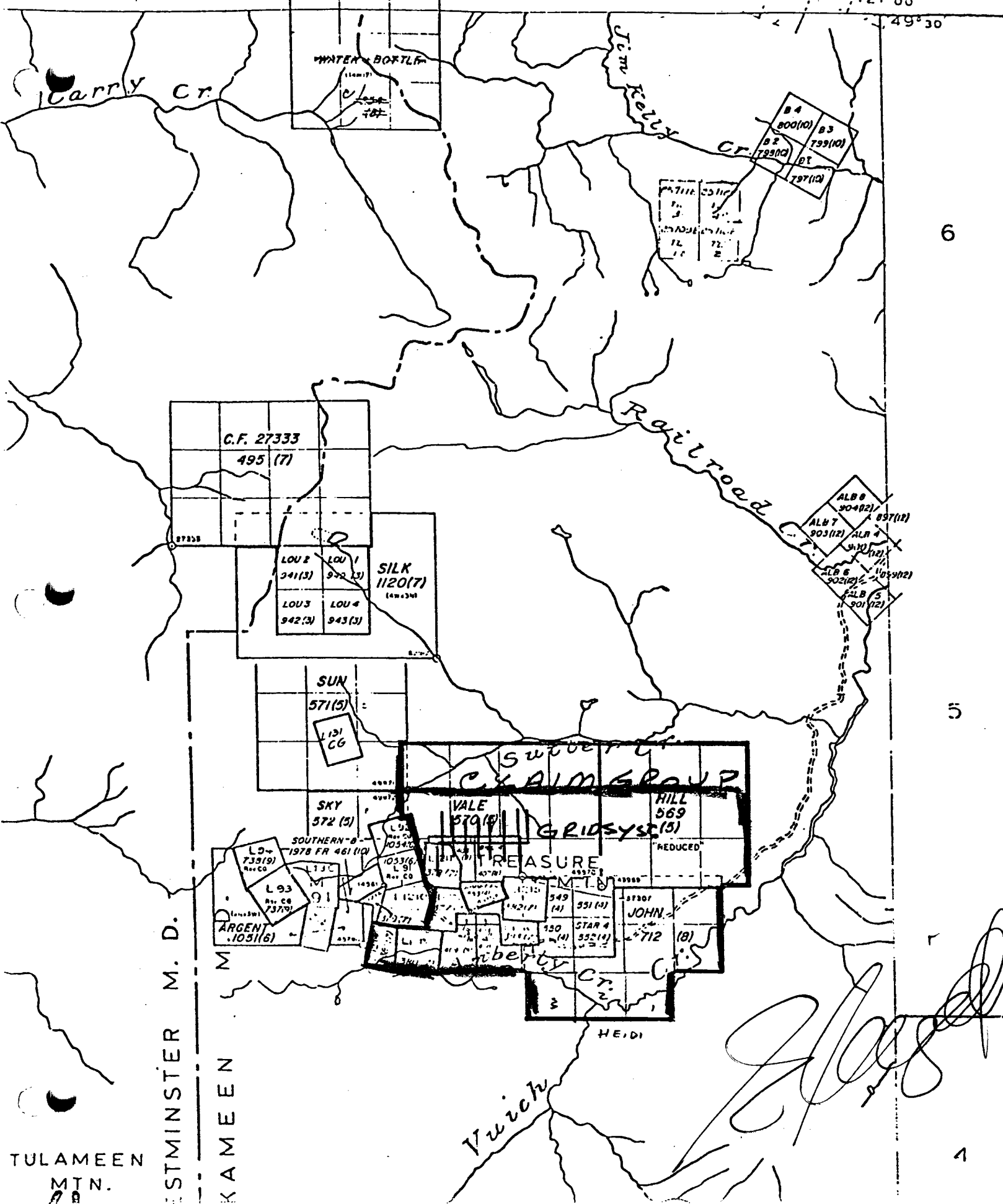
The electro-magnetic instrument used was a Ronka EM16, Serial No. 2. The VLF stations used were 23.4 and 18.6.

The magnetometer used was a Sintrex MF1 Fluxgate, Serial No. 905-454. The instrument was adjusted to read 300 gammas for background.

GRID

The baseline was laid out in an east-west direction. The survey lines were run at right angles to the baseline, first at 100 metres interval; two intermediate lines were put in as required.

The survey comprised 48 km. of line, or a total of 3.6 square km.



6

5

4

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HISTORY

The Treasure Mountain mineralization was discovered before the turn of the century. Extensive underground work was carried out on the claim ground in the 1920's and 1950's.

A total of about 5,000 feet of drifts, crosscuts and raises were put in. A small mill was built in 1954-55, but it never operated.

The mineralization indicated by the underground work consists of about 100,000 tons grading approximately 5 oz. Ag, 4% Pb and 5% Zn per ton.

ELECTRO-MAGNETIC SURVEY

There are four plans submitted on a scale of 1:2,500.

Figure 1 of V.L.F. Station 23.4 is profiled.

Figure 2 of the same Station is contoured.

Figure 3 shows magnetic contours.

Figure 4 is of contoured V.L.F. Station 18.6.

E. 4-16 V.L.F. Station 18.6 (Hawaii)

Readings were taken at 25 m. intervals along the crosslines with some intermediate lines as required. On Lines 2 + 50W, 3 + 00W and partly on 4 + 00W, readings were taken at 12.5 m. intervals.

RESULTS

The three indicated conductors are marked 1, 2 and 3. No. 1 conductor strikes in a NE-SW direction from Line 4W to Line 1E, then this conductor swings in a southeast direction from Line 1E at 125N, crossing Line 4E at 40N. The best part of this conductor extends from L-2W, just south of the baseline to Line 0 + 50E, a distance of some 250 meters. This conductor dips to the SE, as indicated by the E.M. 16 results. Depth to conductor on L-0 at 1 + 12N is approximately 40 meters.

The proposed D.D.H.#1 spotted some 20 meters east of L-0 at 80 meters north, and drilled -50 to the NW should intercept this conductor at about 60 meters.

The No. 2 and No. 3 conductor, some 200 meters to the

north has similar NE-SW strike, extends through from Line 3W, 100 meters north to Line 0 at 3 + 75N. The secondary conductor, indicated by a broken line some 40 meters north, parallels the No. 2. These conductors may be dipping to the northwest. The two proposed D.D. holes (No. 2 and No. 3) drilled to the southeast would check out the northwest dipping conductors.

The No. 3 conductor starts on Line 1E, some 325 meters north, strikes in an easterly direction to Line 3E, some 300 meters north, then swings in a northeast direction crossing Line 4E at 350 north to continue off the grid. This conductor indicated to be dipping steeply to the south. Depth to conductor on Line 3E at 300 meters north is approximately 30 meters. The proposed D.D.H. #4, spotted on Line 3E at 275 north and drilled to the north at -55N, should intercept this conductor at approximately 40 meters.

The No. 1 conductor correlates very closely with the magnetic results. There is no magnetic correlation with the No. 2 conductor. The No.3 conductor has only slight magnetic correlation.

Figure #2 contoured V.L.F. Station 23.4.

This contoured plan very likely represents the geological trends, particularly southwest of the adit. The adit is on Line 2W, some 25 meters south of the baseline. The secondary conductor, striking to the SW of the adit, lines up with the exposed mineralized vein. This, too, has good magnetic correlation.

Figure 4 V.L.F. Station 18.6 (SEATTLE) contoured only.

This contoured plan (Figure 4) has four conductors, listed from 1 to 4. The No.1 conductor, a semi-circular conductor north of the baseline, around Line 1W, is only in the vicinity of No. 1 of Figure 1 because of the tilt angle direction of V.L.F. Station 18.6. The No. 2 conductors are in approximately the same location, but the east and west limbs of this conductor are displaced to the north.

The No. 4 conductor, observed on Line 4W some 110 meters south of the baseline, is the extension of the exposed mineralized zone SW of the adit. The No. 1 and 4 conductors correlate very closely to the magnetic trend.

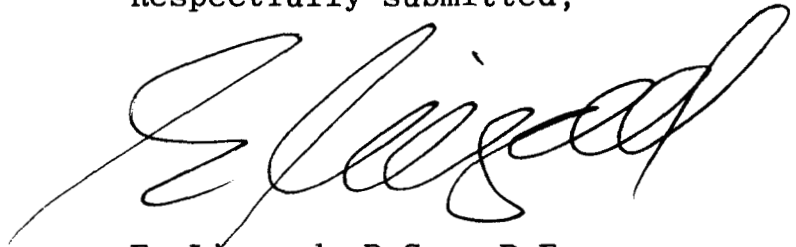
MAGNETOMETER SURVEY

Figure 3, magnetometer survey - Operator, Paul Presunka. The magnetic stations were established along the baseline for diurnal correction at 25 m. intervals. Readings were taken along the cross lines at 12.5 m. intervals. The corrected results are plotted and contoured on a plan scale of 1:2500.

The magnetic trend and the V.L.F. conductor on Figure 1 correlate very closely. The magnetic highs striking in a NE direction from Line 3W to 1E, very likely would have shown a continuous even contour if closer line spacing had been run. The magnetic results indicated the magnetics to be dipping to the south.

The proposed D.D.H. #1, shown on Figure 1, is located on the extension of the strike of the ore zones to the SW, is well located.

Respectfully submitted,

A handwritten signature in black ink, appearing to read 'E. Livgard', written in a cursive style.

E. Livgard, B.Sc., P.Eng.

Vancouver, B.C.

August 20, 1981

STATEMENT OF COSTS

EM AND MAG SURVEY

19-28 June 1981 (10 days)

Personnel

Steve Presunka
Paul Presunka
Magnus Bratlien

MAPWORK (4 days) - Steve Presunka

<u>SURVEYS</u> (Contract Price)	\$ 3,000.00
<u>VEHICLE MILEAGE</u> -360 miles @ 30¢/mile	108.00
<u>M. BRATLIEN</u> - 10 days @ \$100/day	1,000.00
<u>ROOM AND BOARD</u> - 3 men, 10 days @ \$25/man/day	750.00
<u>ENGINEERING SUPERVISION AND REPORT</u> 3 days @ \$300/day	<u>900.00</u>
T O T A L C O S T	<u><u>\$ 5,758.00</u></u>



STATEMENT OF EXPERIENCE

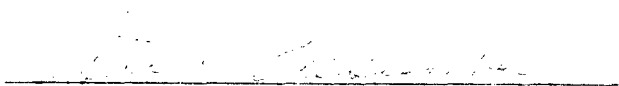
I have worked in the field of geophysical exploration since 1957 - both operating the instruments and mapping and interpreting the data obtained. In this capacity I worked for Ventures Ltd. and later Falconbridge Nickel Mines from 1957 to 1972 except for 2 years spent with Stratmat Geophysics of Toronto - also in the same capacity.

Since 1972 - I have carried out geophysical surveys on a contract basis for a number of clients through my own B.C. company, Presunka Geophysical Explorations Ltd. Some of this work has been for my previous employers.

My work consist chiefly of electro-magnetics, both horizontal loop and vertical E.M., magnetometer surveys, self-potential and spectrometrics.

I use only self-owned instruments in good working condition. All instruments are serviced at least once a year by the manufacturers.

DATED AT VANCOUVER, BRITISH COLUMBIA, THE 15th DAY OF APRIL, 1981



Steve Presunka

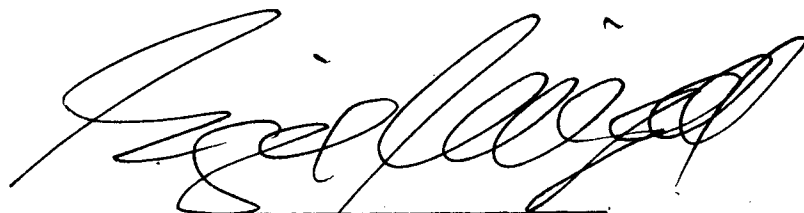
Addresses - 232 Pembina Street,
NEW WESTMINSTER, B.C.
or 203 - 9th Ave.,
DAUPHIN, Manitoba

CERTIFICATE

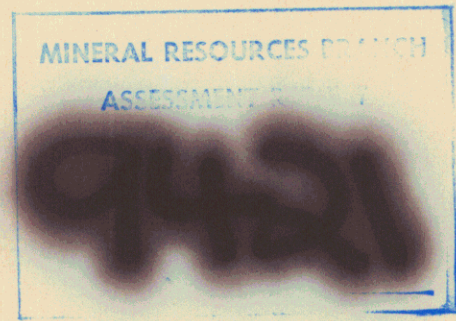
I, EGIL LIVGARD, of 409 - 1199 West Pender Street, Vancouver, B.C. DO HEREBY CERTIFY:

1. I am a Consulting Geological Engineer.
2. I am a graduate of the University of British Columbia, with a B.Sc., 1960 in Geological Sciences.
3. I am a member of the Association of Professional Engineers of the Province of British Columbia.
4. From 1960 to 1962 I was employed as a geologist with United Keno Hill Mines, Elsa, Yukon Territories.
5. From 1962 to 1963 I was employed as a geologist with the Geologic Survey of Norway.
6. From 1963 to 1966 I was employed as a Mine Geologist and Engineer at the Portage Mine, Chibougamau, Quebec.
7. From 1966 to 1968 I was employed as Chief Geologist and Engineer at Utica Mines, Keremeos, British Columbia.
8. From 1968 to 1970 I was employed by S & N Mine Management, Consultants, Vancouver, B.C.
9. From 1970 to the present I have been self-employed as a consultant in Vancouver, B.C.
10. I have not, directly or indirectly, received, nor do I expect to receive, any interest, directly or indirectly, in the properties here described, or in any company that has an interest in these properties, or in any affiliate, and I do not beneficially own, directly or indirectly, any securities in any such company.

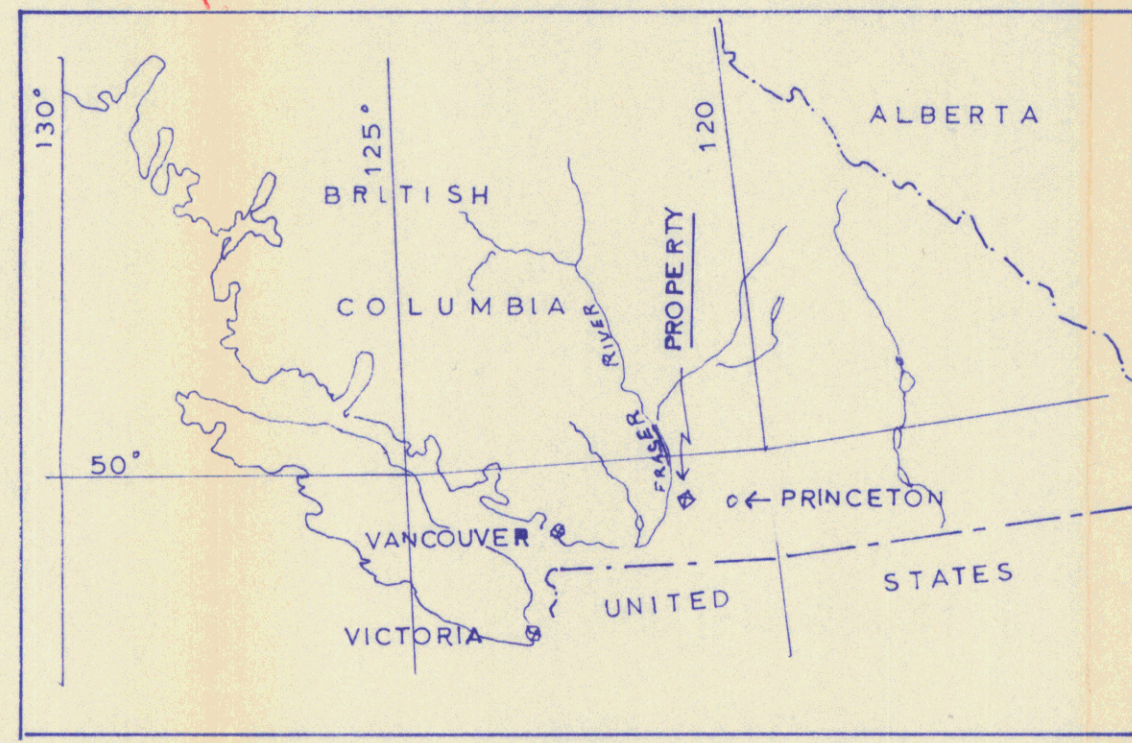
DATED AT VANCOUVER, BRITISH COLUMBIA THIS 20th DAY OF AUGUST 1981.



Egil Livgard, B.Sc., P.Eng.



LOCATION MAP



TREASURE MOUNTAIN

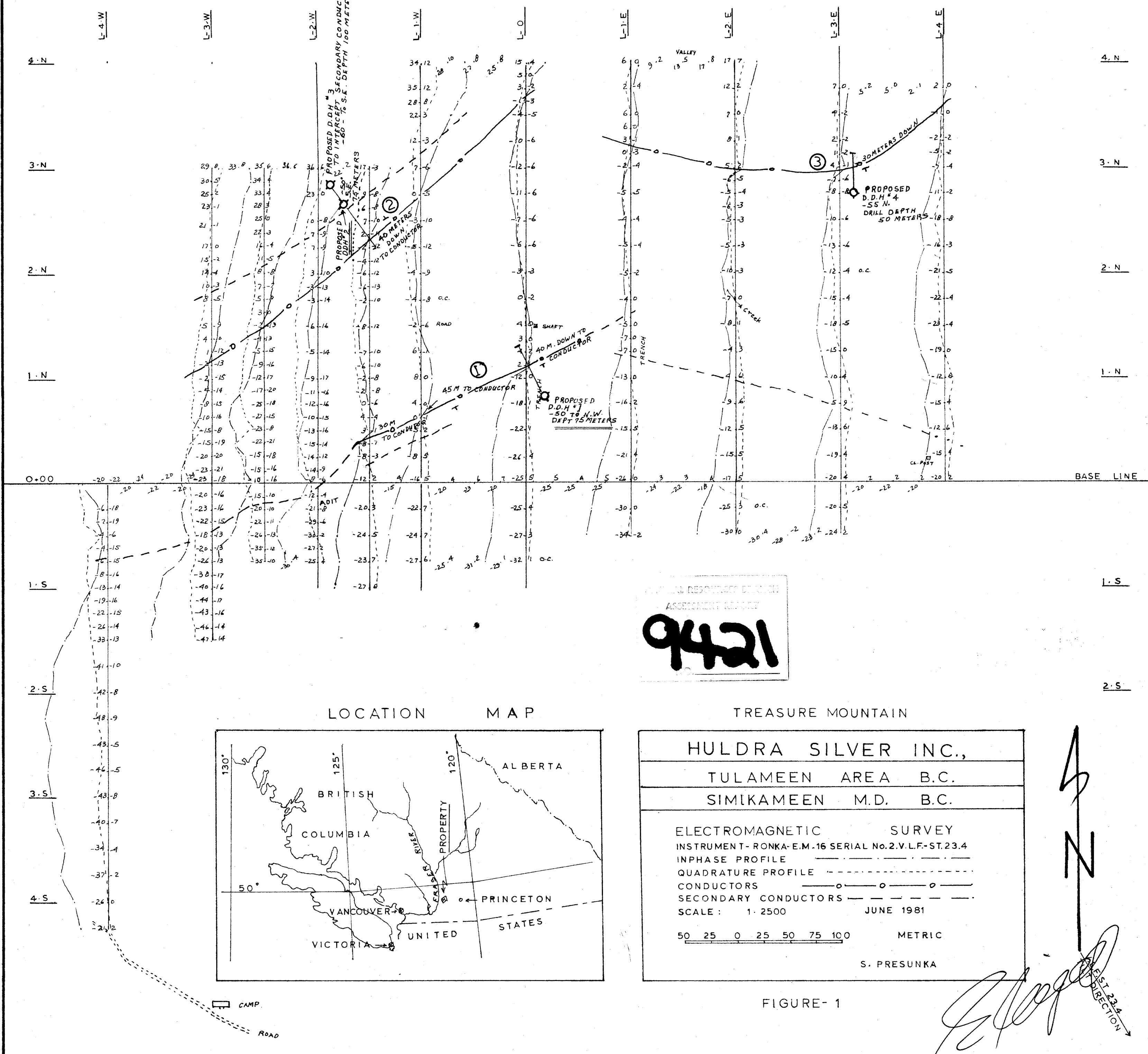
HULDRA SILVER INC.	
TULAMEEN AREA B.C.	
SIMILKAMEEN M.D., B.C.	
ELECTROMAGNETIC SURVEY	
INSTRUMENT - RONKA EM.16. SERIAL No. 2, V.L.F. ST23.4	
INPHASE CONTOURS	— 5 — 5 —
CONDUCTORS	○ ○
REVERSE CROSS-OVER	--- R0 ---
SECONDARY CONDUCTOR	-----
SCALE: 1:2500	JUNE 1981
50 25 0 25 50 75 100	METRIC
S. PRESUNKA	



FIGURE-2

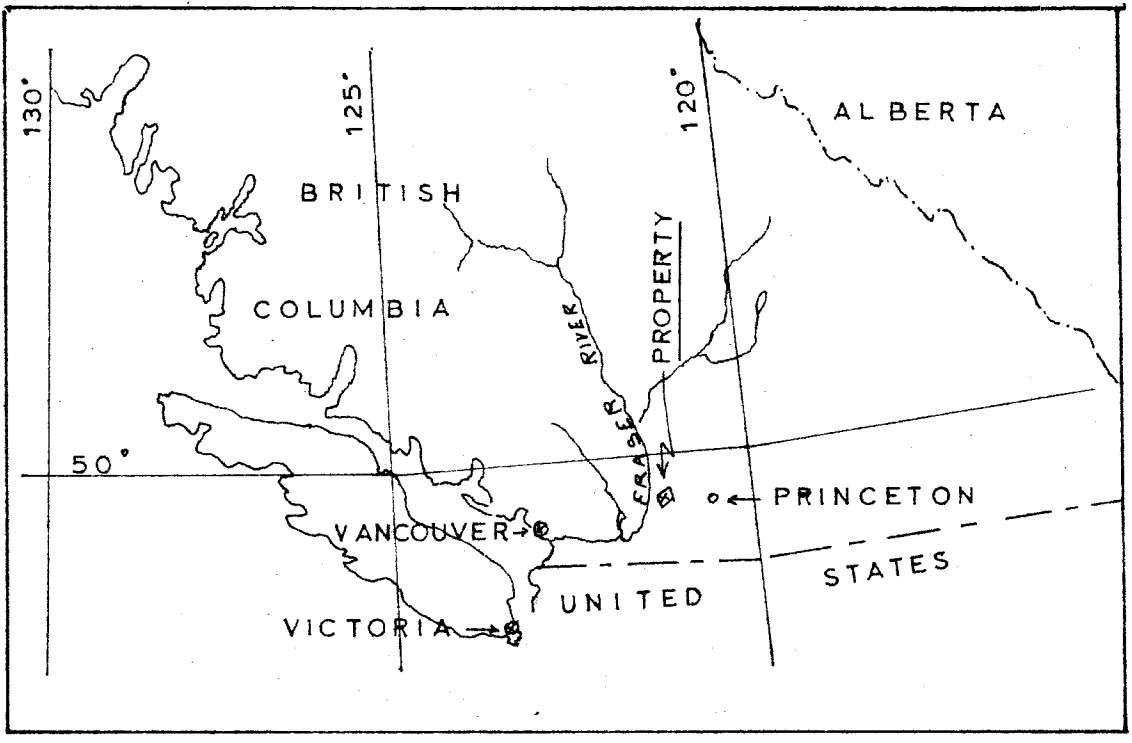
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 V.L.F. ST 23.4
 TILT SECTION

□ CAMP
 --- ROAD



ANNUAL RESOURCE BRANCH
ASSESSMENT REPORT
9421

LOCATION MAP



TREASURE MOUNTAIN

HULDRA SILVER INC.,	
TULAMEEN AREA B.C.	
SIMIKAMEEN M.D. B.C.	
ELECTROMAGNETIC SURVEY	
INSTRUMENT - RONKA-E.M.16 SERIAL No.2.V.L.F.-ST.23.4	
INPHASE PROFILE _____	
QUADRATURE PROFILE _____	
CONDUCTORS _____	
SECONDARY CONDUCTORS _____	
SCALE: 1:2500	JUNE 1981
50 25 0 25 50 75 100 METRIC	
S. PRESUNKA	

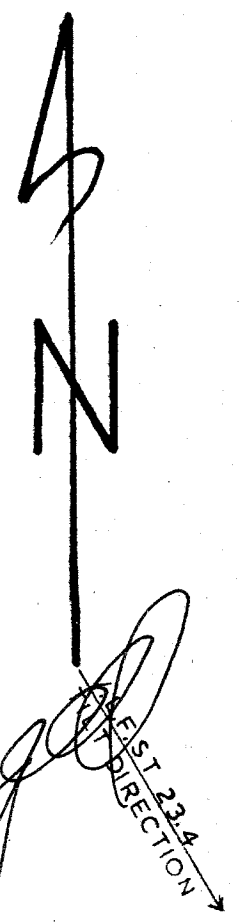
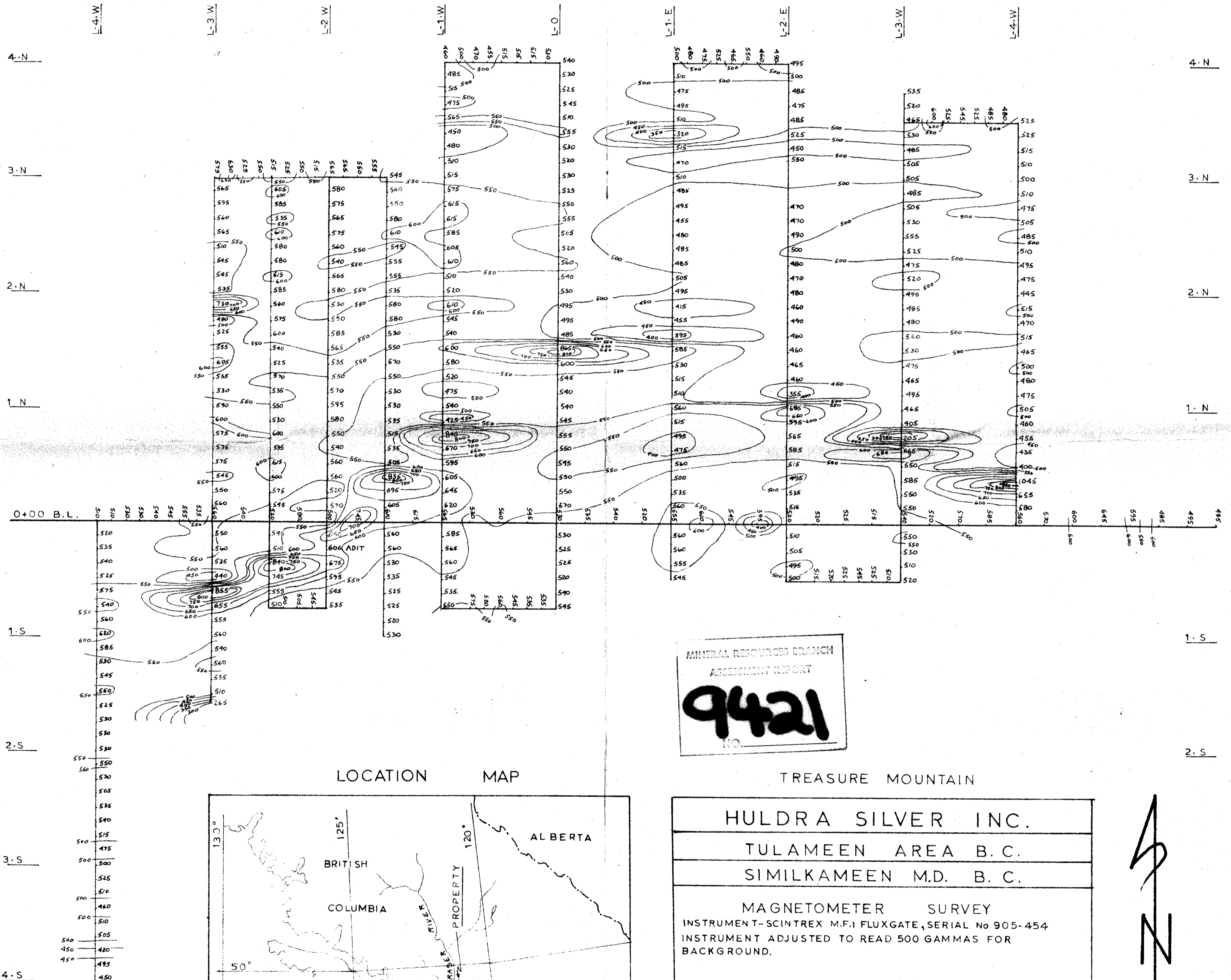


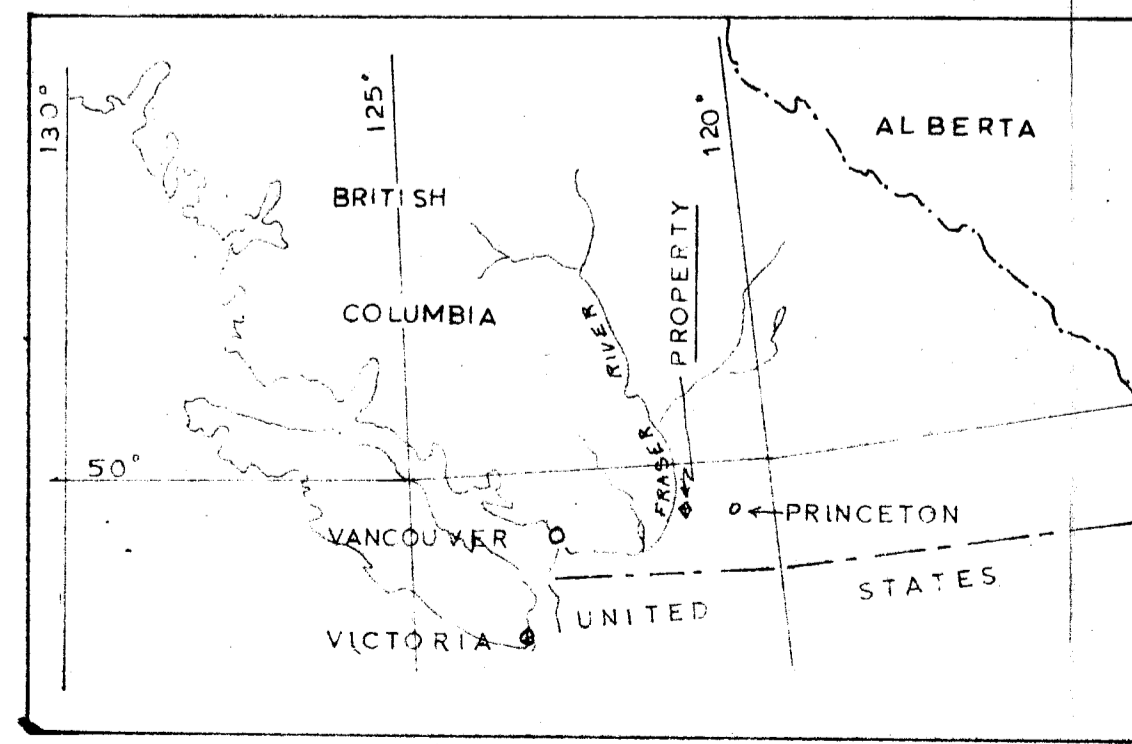
FIGURE-1

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S.E.I. 23.4
CORRECTION



MINERAL RESOURCES BRANCH
ASSESSMENT REPORT
9421
NO.

LOCATION MAP

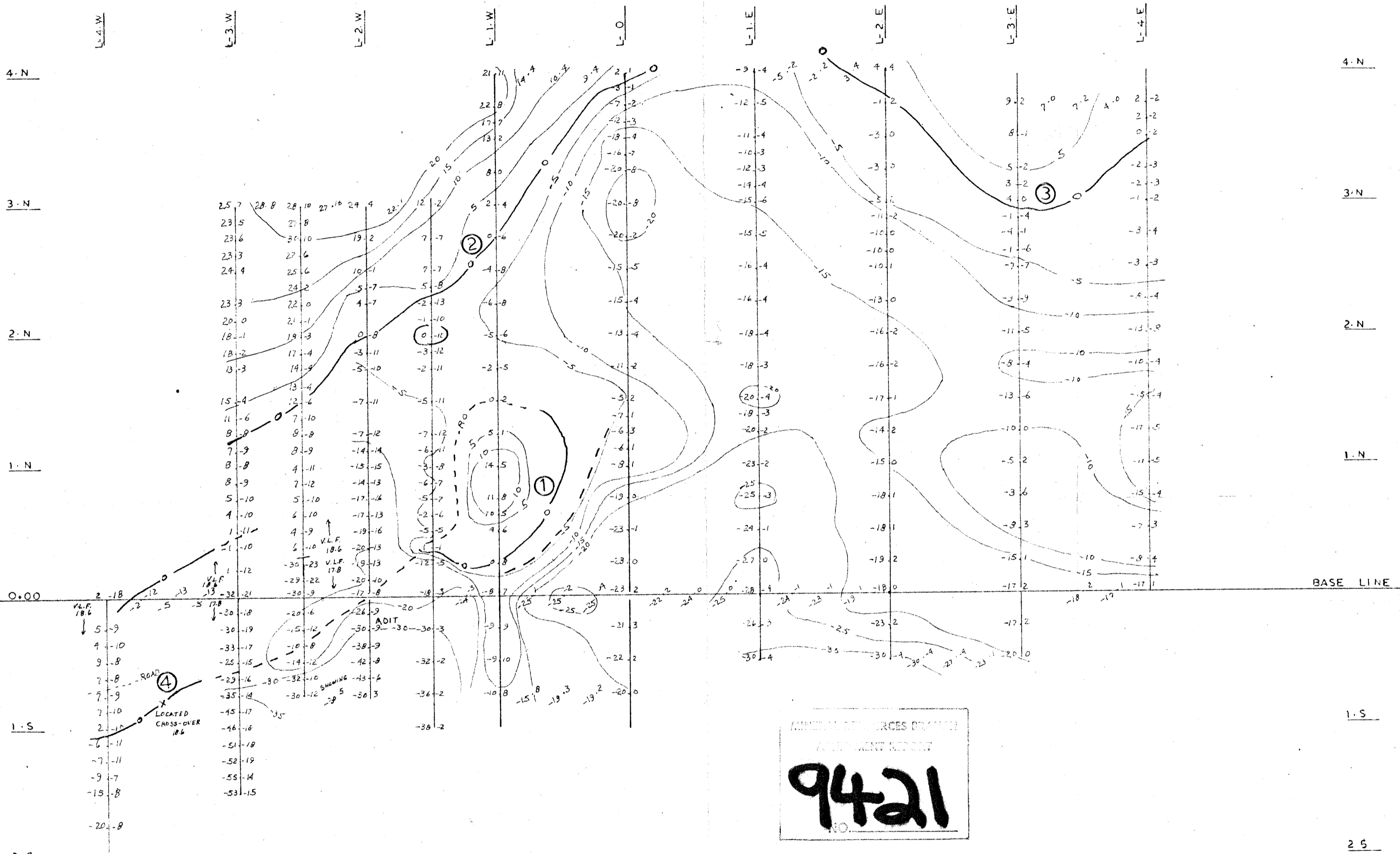


TREASURE MOUNTAIN

HULDRA SILVER INC.	
TULAMEEN AREA B. C.	
SIMILKAMEEN M.D. B. C.	
MAGNETOMETER SURVEY INSTRUMENT-SCINTREX M.F.I FLUXGATE, SERIAL No 905-454 INSTRUMENT ADJUSTED TO READ 500 GAMMAS FOR BACKGROUND.	
SCALE: 1:2500	JUNE 1981
50 25 0 25 50 75 100	METRIC
P. PRESUNKA	

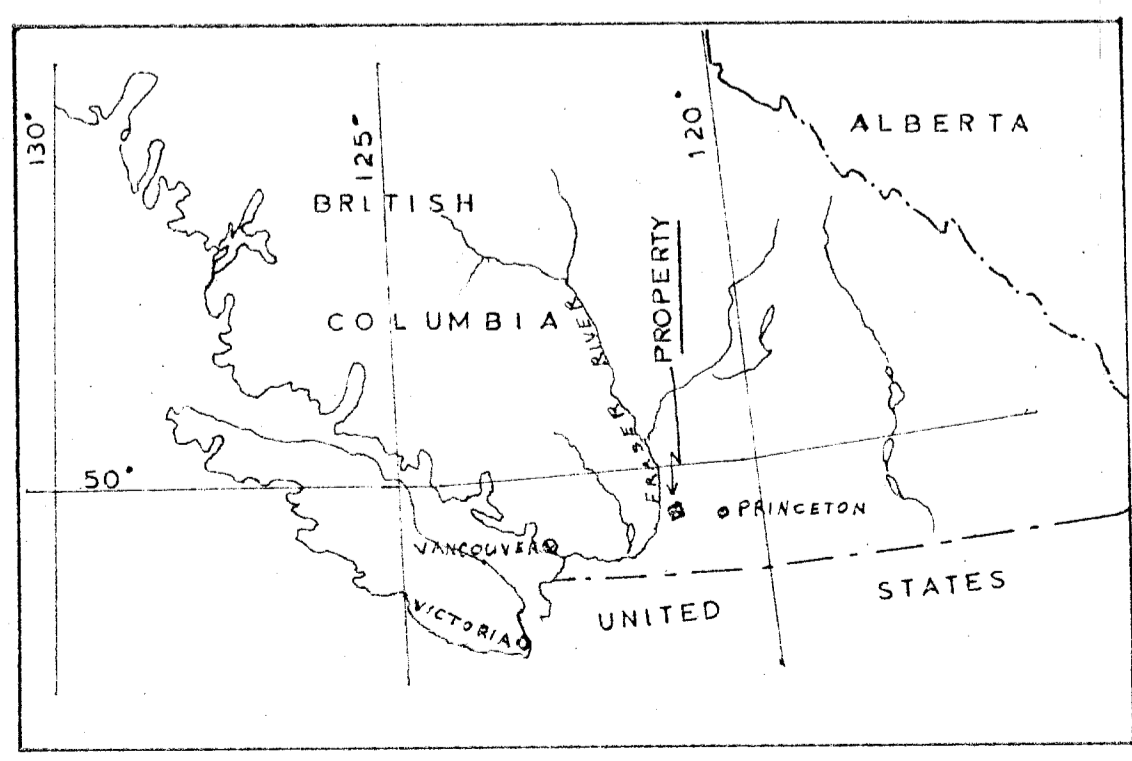
FIGURE-3

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MINERAL RESOURCES DIVISION
 ATTEMPTED SURVEY
9421
 NO.

LOCATION MAP



TREASURE MOUNTAIN

HULDRA SILVER INC.	
TULAMEEN AREA B.C.	
SIMILKAMEEN M.D., B.C.	
ELECTROMAGNETIC SURVEY	
INSTRUMENT-RONKA EM.16 SERIAL No.2,V.L.F. ST.18.6	
INPHASE CONTOUR 5-5	
CONDUCTORS 0-0	
REVERSE CROSS-OVER -R0-	
SCALE: 1:2500	JUNE 1981
50 25 0 25 50 75 100	METRIC
S. PRESUNKA	

FIGURE-4



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