

84-1448-13343

GEOCHEMICAL SOIL SURVEY REPORT

FOR

HULDRA SILVER INC.

**ON GEOLOGICAL BRANCH
ASSESSMENT REPORT**

BILL (407)

AND

VALE (570)

13,343

ON TREASURE MOUNTAIN

SIMILKAMEEN MINING DISTRICT

LATITUDE 49° 25' 00 N

LONGITUDE 121° 03' 20 W

MAGNUS BRATLIEN

PROSPECTOR

VANCOUVER, B.C.

MARCH 19, 1985



Province of British Columbia

Ministry of Energy, Mines and Petroleum Resources

ASSESSMENT REPORT TITLE PAGE AND SUMMARY

TYPE OF REPORT/SURVEY(S) Geochemical survey	TOTAL COST \$ 700
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AUTHOR(S) Magnus Bratlien SIGNATURE(S) Magnus Bratlien

DATE STATEMENT OF EXPLORATION AND DEVELOPMENT FILED December 27/1984 YEAR OF WORK 1984

PROPERTY NAME(S) Treasure Mtn. and The Huldra Silver Property
Formerly Silver Hill, Silver Chief and Mary E.

COMMODITIES PRESENT Ag, Pb. and Zn

B.C. MINERAL INVENTORY NUMBER(S), IF KNOWN 02764

MINING DIVISION Similkameen NTS 92H/6E

LATITUDE 49°25'00"N LONGITUDE 121°03'20"W

NAMES and NUMBERS of all mineral tenures in good standing (when work was done) that form the property [Examples: TAX 1-4, FIRE 2 (12 units); PHOENIX (Lot 1706); Mineral Lease M 123; Mining or Certified Mining Lease ML 12 (claims involved)]:

Bill 1-6, Heidi 1-3, 5-6, Summit Fr, Troll (1), Hill (6), Vale (8), John (8), Huldra (8), rev. C.G.'s: Why Not Fr, Why Not No 2!, Why Not No 3, Eureka Fr, Tamarack, Tamarack No. 2 and Lakeview

OWNER(S)

(1) Huldra Silver Inc (2)

MAILING ADDRESS

3475 West 34 Ave
Vancouver B.C. V6N 2K5

OPERATOR(S) (that is, Company paying for the work)

(1) Huldra Silver Inc (2)

MAILING ADDRESS

3475 West 34 Ave
Vancouver B.C. V6N 2K5

SUMMARY GEOLOGY (lithology, age, structure, alteration, mineralization, size, and attitude):

Fault controlled veins in the Treasure Mtn and subsidiary faults. The Treasure Mtn. Fault cuts the Dewdney Creek and Pasaten Groups, the former composed of green to grey pyroclastic rocks, arkose, argillite and conglomerate, the latter mainly composed by arkose, argillite and lesser amounts of conglomerate. The Pasayten Group form the country rock in the survey area. High silver values occur in irregular and narrow shoots, lenses and stringer in quartz and calcite gangue. Galena, sphalerite, pyrites
REFERENCES TO PREVIOUS WORK 79-366-7463, 81-356-9152, 81-713-9421, 82-207-10276, 83-437-11947

TYPE OF WORK IN THIS REPORT	EXTENT OF WORK (IN METRIC UNITS)	ON WHICH CLAIMS		COST APPORTIONED
GEOLOGICAL (scale, area)				
Ground
Photo
GEOPHYSICAL (line-kilometres)				
Ground
Magnetic
Electromagnetic
Induced Polarization
Radiometric
Seismic
Other
Airborne
GEOCHEMICAL (number of samples analysed for)				
Soil III	40	71
Silt	35 (BILL#4) 76 (VALE) \$ 2,253		1,420
Rock
Other
DRILLING (total metres; number of holes, size)				
Core
Non-core
RELATED TECHNICAL				
Sampling/assaying
Petrographic
Mineralogic
Metallurgic
PROSPECTING (scale, area)				
PREPARATORY/PHYSICAL				
Legal surveys (scale, area)
Topographic (scale, area)
Photogrammetric (scale, area)
Line/grid (kilometres)
Road, local access (kilometres)
Trench (metres)
Underground (metres)
				TOTAL COST 1,420

FOR MINISTRY USE ONLY	NAME OF PAC ACCOUNT	DEBIT	CREDIT	REMARKS:
Value work done (from report)	
Value of work approved	
Value claimed (from statement)	
Value credited to PAC account	
Value debited to PAC account	
Accepted Date	Rept. No.	Information Class

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APPENDICES

Certificates of Analysis
Analytical Procedure Methods
Histograms
Cost Declaration
Certificate of Qualification

MAPS IN BACK POCKET

Figure 1

INTRODUCTION

The survey described below was carried out between July 16-19, 1984 by M. Bratlien (the writer of this report) and K. Pettersen.

LOCATION, ACCESS AND SETTING

The Huldra Property is located 20 miles southwest of the village of Tulameen in the Similkameen M.D.

The N.T.S. number is 92H/6E. Latitude is $49^{\circ}25'00''\text{N}$ and Longitude is $121^{\circ}03'20''\text{W}$.

Access is by dirt road from Tulameen. The survey area is reached by a one mile long cat road exiting uphill (northeasterly) from the dirt road at a point about 21 miles from Tulameen.

The topography of the survey area ranges from nearly flat to gentle slopes at elevations between 5300' to 5550'.

Rock outcrops are numerous, constituting about 20%. Overburden is generally shallow. Tree cover is light and interspersed with open areas. There is little underbrush.

GEOLOGY

Mapping by J.M. Black (BCDM 1952) shows the Huldra Claim to lie within the Dewdney Creek and the Pasayten Groups. Ages range from Upper Jurassic to late Cretaceous.

The Dewdney Creek Group is composed of grey to green pyroclastic rocks, arkose, argillite and minor amounts of conglomerate. The Pasayten Group is made up of arkose, argillite and lesser amounts of conglomerate. Both formations are intruded by numerous sills and dykes and, in the locality of Treasure Mountain, traversed by an important fault. This fault together with subsidiary faults constitute the host structure for the various irregular stringers, veins and lenses which form the silver lodes on Treasure Mountain. Mineralization occur mainly as galena, shalerite, pyrite, arsenopyrite, tetrahedrite, stibnite and pyrrhotite.

GRID SYSTEM

A grid was established by putting in 450m of east-west baseline, running 200m west and 250m east from zero. The line was sighted in by silva compass, measured by chain and marked by lath pickets at 50m intervals.

The zero point on this baseline is located 200m north of the zero point of a prior baseline which was used for previous work by Huldra.

SAMPLING

111 samples were collected from the B horizon. This horizon generally varied between 6 to 18 inches in depth and provided good soil for sampling.

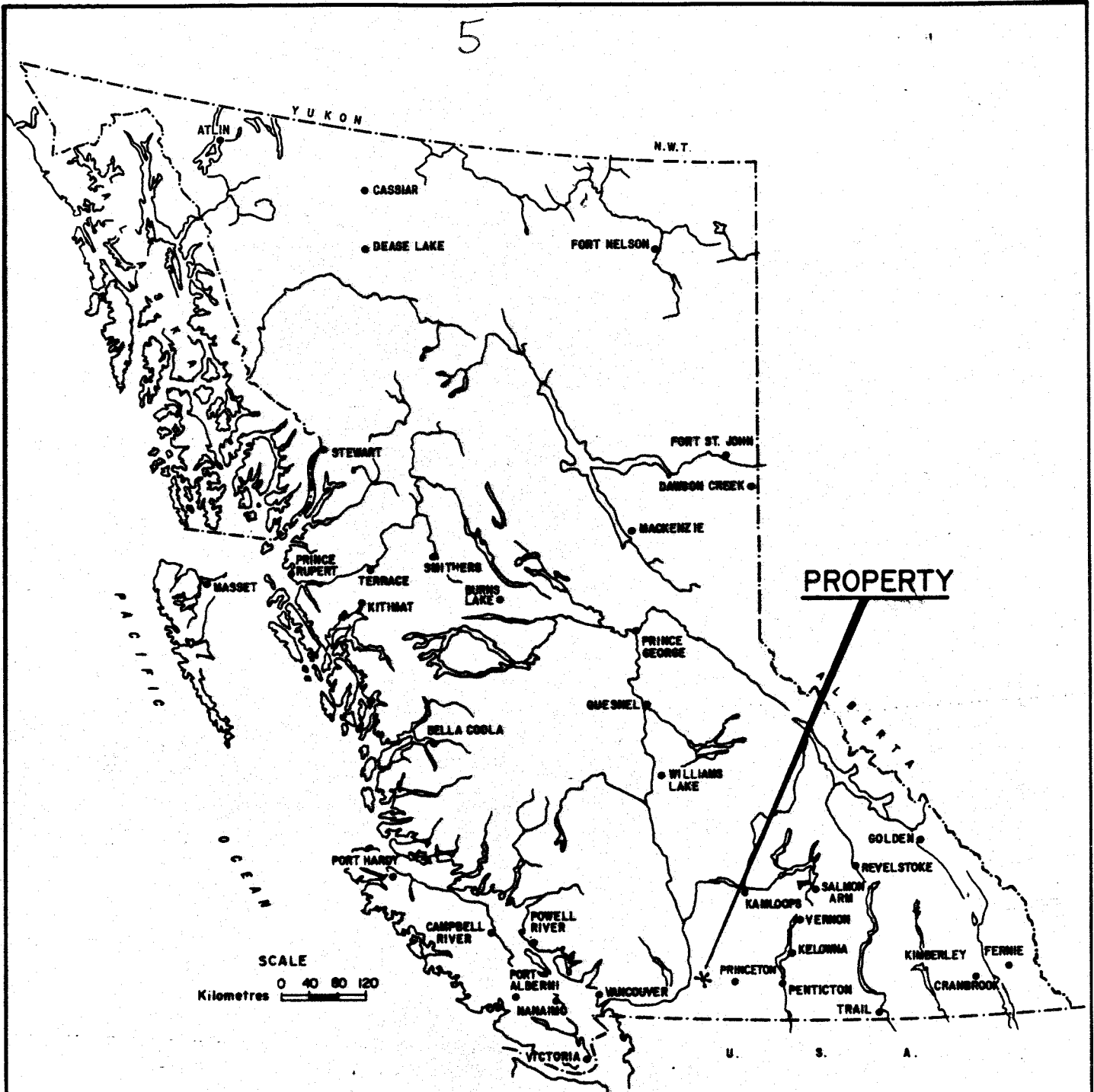
The samples were put in Kraft bags which were marked with location coordinates and submitted to Acme Labs for analysis. The analytical procedures used and the statistical analysis of the values obtained can be found in the Appendix.

RESULTS AND CONCLUSION

The results obtained from the lab analysis of the 111 samples have been plotted in Figure 1 and shown on the histogram printout. See Appendix.

Except for a high of 3.4 PPM Ag, the range of values is narrow when compared to previous geochem work (Assessment report 79-3666-7463 and other unpublished surveys) in the locality. Therefore, to isolate those values which are anomalous when compared to a larger data base, only the results which are in or above the 98 percentile have been designated anomalous in this report. This being so, the minimum anomalous values in PPM's are 1.3 Ag, 108 Pb and 164 Zn, producing 9 highs, distributed over 6 locations. Three of these highs, in two locations (stations 150W-230N and 225W-215N), lie adjacent to an EM conductor and may, therefore, represent mineralization in an underlying fault zone.

Elsewhere, six anomalous values in four locations, stations 50E-160N, 100E-151N, 175E-185N and 250E-220N) fall roughly along the projected strike of the Treasure Mountain fault in the area east of the shaft. Whether these six anomalous values represent mineralization in an underlying fault zone can only be established by further investigation.



PROPERTY

SCALE
 Kilometres 0 40 80 120

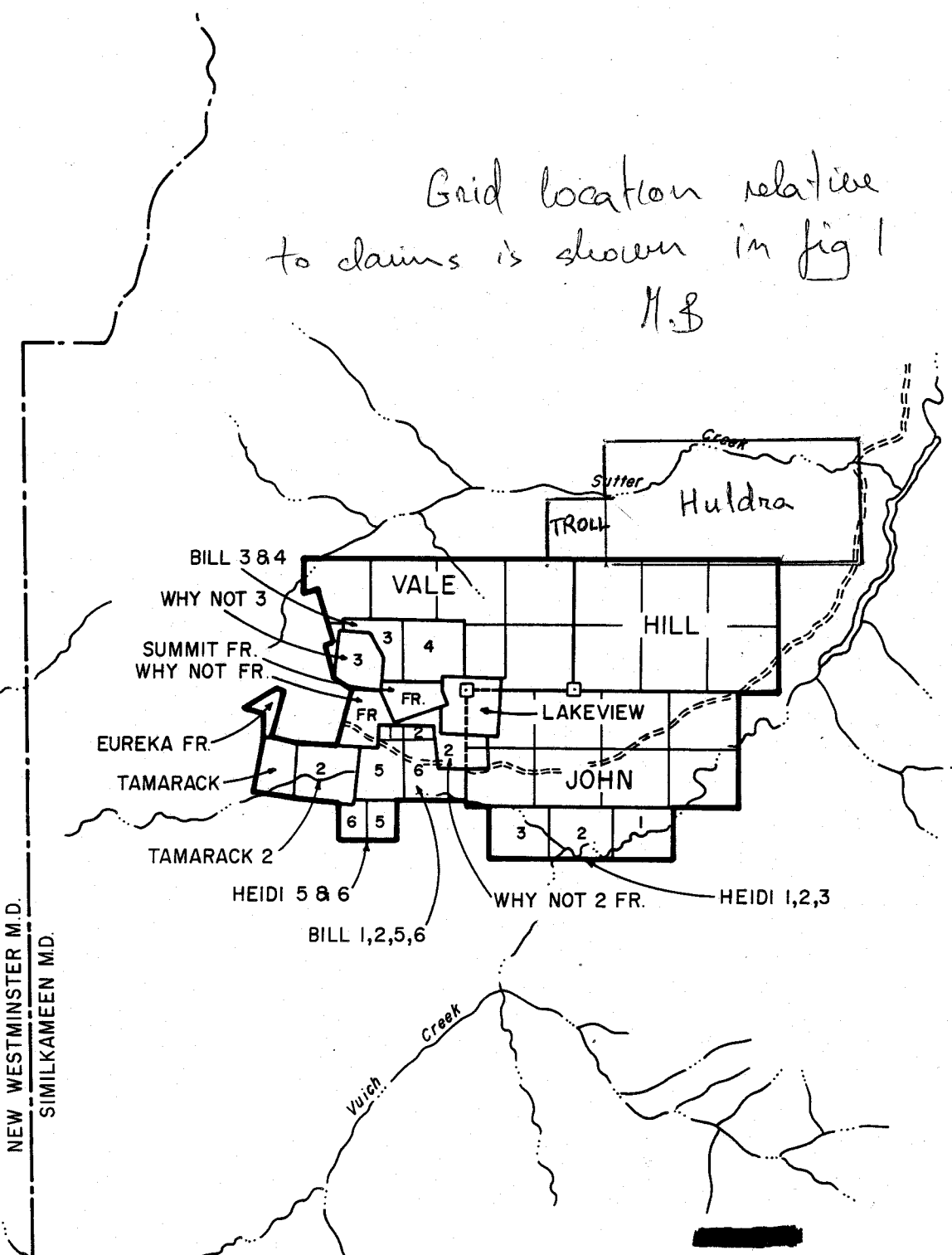
HULDRA SILVER INC.
TREASURE MOUNTAIN PROPERTY
LOCATION MAP

DECEMBER, 1983

5b



Grid location relative to claims is shown in fig 1 M.S



NEW WESTMINSTER M.D.
SIMILKAMEEN M.D.

HULDRA SILVER INC.
TREASURE MOUNTAIN PROPERTY

CLAIM MAP



SCALE: 1:50,000

NOVEMBER, 1983

ACME ANALYTICAL LABORATORIES LTD.
352 E. HASTINGS ST. VANCOUVER B.C. V6A 1R6
PHONE 253-3158 DATA LINE 251-1011

DATE RECEIVED: JULY 23 1984

DATE REPORT MAILED: *July 25/84*

GEOCHEMICAL ICP ANALYSIS

.500 GRAM SAMPLE IS DIGESTED WITH 3ML 3-1-3 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR AND IS DILUTED TO 10 ML WITH WATER.
THIS LEACH IS PARTIAL FOR MN.FE.CA.P.CR.MG.BA.TI.B.AL.NA.K.W.SI.ZR.CE.SN.Y.NB AND TA. AU DETECTION LIMIT BY ICP IS 3 PPM.
- SAMPLE TYPE: SOIL

ASSAYER: *D. Toye* DEAN TOYE. CERTIFIED B.C. ASSAYER

HULDRA SILVER INC FILE # 84-1712

PAGE 1

SAMPLE#	PB PPM	ZN PPM	AG PPM
225W 215N	13	70	1.3
200W 256N	13	70	.4
200W 241N	10	48	.3
200W 219N	17	37	.9
200W 200N	27	92	1.0
200W 196N	12	31	.6
150W 265N	12	55	.1
150W 244N	102	115	1.1
150W 230N	108	143	1.7
150W 205N	17	78	.6
110W 335N	46	49	.6
100W 258N	24	99	.3
100W 248N	20	76	.4
100W 222N	11	47	.5
95W 335N	18	41	.5
95W 300N	12	40	.2
50E 214N	9	58	.2
50E 203N	13	81	.2
50E 196N	16	91	.1
50E 192N	9	47	.9
50E 180N	8	51	.1
50E 177N	3	20	.1
50E 170N	5	42	.1
50E 160N	131	164	3.4
75E 200N	12	81	.2
75E 191N	12	83	.2
75E 187N	7	61	.6
75E 180N	22	46	1.2
75E 175N	16	47	.4
75E 167N	16	45	.5
75E 156N	19	113	.1
100E 200N	10	111	.2
100E 196N	9	42	.4
100E 187N	7	36	.3
100E 180N	9	37	.1
100E 170N	10	57	.4
100E 160N	26	142	.4
STD S-1	115	183	31.9

SAMPLE#	PB PPM	ZN PPM	AG PPM
100E 151N	33	271	.4
100E 144N	12	63	.7
125E 200N	6	50	.2
125E 191N	12	59	.3
125E 183N	10	55	.1
125E 177N	8	47	.2
125E 169N	16	103	.2
125E 155NA	8	40	.2
125E 155NB	10	70	.1
135E 287N	8	83	.1
135E 267N	8	95	.1
135E 250N	11	150	.1
150E 236N	4	29	.1
150E 220N	5	50	.1
150E 206N	6	53	.2
150E 200N	7	53	.1
150E 196N	8	42	.1
150E 185N	11	45	.2
150E 174N	12	132	.1
150E 163N	13	78	.6
150E 154N	11	57	.3
150E 140N	11	67	.2
168E 195N	11	127	.6
175E 185N	13	318	.6
175E 175N	8	175	.5
175E 158N	14	132	.2
182E 255N	5	29	.2
200E 314N	7	45	.6
200E 284NA	9	20	.3
200E 284NB	14	32	.4
200E 267N	15	70	.4
200E 255N	23	89	.2
200E 243N	10	80	.3
200E 233N	4	48	.1
200E 225N	6	58	.1
220E 115N	12	50	.4
225E 130N	6	50	.2
STD S-1	115	184	33.3

SAMPLE#	PB PPM	ZN PPM	AG PPM
225E 100N	8	32	1.1
245E 340N	9	37	.6
250E 330N	10	51	.5
250E 315N	10	69	.3
250E 300N	7	44	.3
250E 292N	9	49	.3
250E 278N	11	43	.2
250E 265N	9	45	.5
250E 254N	10	50	.3
250E 234N	7	31	.3
250E 220N	125	116	.5
250E 200N	16	46	.1
250E 177N	19	73	.5
250E 154N	10	103	.3
250E 141N	11	76	.5
300E 407N	8	24	.2
300E 366N	8	42	.1
300E 350N	7	51	.3
300E 325N	8	29	.3
300E 295N	11	66	.2
300E 285N	12	52	.2
300E 278N	8	59	.2
300E 272N	7	64	.3
300E 266N	11	59	.2
300E 256N	9	49	.1
300E 218N	10	51	.3
350E 410N	11	43	.5
350E 378N	7	30	.1
350E 329N	8	28	.3
350E 304N	4	45	.2
350E 282N	7	64	.3
350E 258N	10	73	.1
350E 250N	12	88	.1
350E 227N	13	72	.1
350E 210N	10	73	.1
350E 180N	9	89	.5
350E 175N	19	97	.2
STD S-1	118	185	32.0



ACME ANALYTICAL LABORATORIES LTD.

Assaying & Trace Analysis

852 E. Hastings St., Vancouver, B.C. V6A 1R6

Telephone : 253 - 3158

GEOCHEMICAL LABORATORY METHODOLOGY - 1984

Sample Preparation

1. Soil samples are dried at 60°C and sieved to -80 mesh.
2. Rock samples are pulverized to -100 mesh.

Geochemical Analysis (AA and ICP)

0.5 gram samples are digested in hot dilute aqua regia in a boiling water bath and diluted to 10 ml with demineralized water. Extracted metals are determined by :

A. Atomic Absorption (AA)

Ag*, Bi*, Cd*, Co, Cu, Fe, Ga, In, Mn, Mo, Ni, Pb, Sb*, Tl, V, Zn
(* denotes with background correction.)

B. Inductively Coupled Argon Plasma (ICP)

Ag, Al, As, Au, B, Ba, Bi, Ca, Cd, Co, Cu, Cr, Fe, K, La, Mg, Mn, Mo, Na, Ni, P, Pb, Sb, Sr, Th, Ti, U, V, W, Zn.

Geochemical Analysis for Au*

10.0 gram samples that have been ignited overnight at 600°C are digested with hot dilute aqua regia, and the clear solution obtained is extracted with Methyl Isobutyl Ketone.

Au is determined in the MIBK extract by Atomic Absorption using background correction (Detection Limit = 5 ppb direct AA and 1 ppb graphite AA.)

Geochemical Analysis for Au**, Pd, Pt, Rh

10.0 - 30.0 gram samples are subjected to Fire Assay preconcentration techniques to produce silver beads.

The silver beads are dissolved and Au, Pd, Pt and Rh are determined in the solution by graphite furnace Atomic Absorption.

Geochemical Analysis for As

0.5 gram samples are digested with hot dilute aqua regia and diluted to 10 ml. As is determined in the solution by Graphite Furnace Atomic Absorption (AA) or by Inductively Coupled Argon Plasma (ICP).

Geochemical Analysis for Barium

0.1 gram samples are digested with hot NaOH and EDTA solution, and diluted to 10 ml.

Ba is determined in the solution by Atomic Absorption or ICP.

Geochemical Analysis for Tungsten

1.0 gram samples are fused with KCl, KNO₃ and Na₂CO₃ flux in a test tube, and the fusions are leached with 20 ml water. W in the solution determined by ICP with a detection of 1 ppm.



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Geochemical Analysis for Uranium

0.5 gram samples are digested with hot aqua regia and diluted to 10 ml.

Aliquots of the acid extract are solvent extracted using a salting agent and aliquots of the solvent extract are fused with NaF, K_2CO_3 and Na_2CO_3 flux in a platinum dish.

The fluorescence of the pellet is determined on the Jarrel Ash Fluorometer.

Geochemical Analysis for Fluorine

0.25 gram samples are fused with sodium hydroxide and leached with 10 ml water. The solution is neutralized, buffered, adjusted to pH 7.8 and diluted to 100 ml.

Fluorine is determined by Specific Ion Electrode using an Orion Model 404 meter.

Geochemical Analysis for Tin

1.0 gram samples are fused with ammonium iodide in a test tube. The sublimed iodine is leached with dilute hydrochloric acid.

The solution is extracted with MIBK and tin is determined in the extract by Atomic Absorption.

Geochemical Analysis for Chromium

0.1 gram samples are fused with Na_2O_2 . The melt is leached with HCl and analysed by AA or ICP.

Geochemical Analysis for Hg

0.5 gram samples is digested with aqua regia and diluted with 20% HCl.

Hg in the solution is determined by cold vapour AA using a F & J Scientific Hg assembly. An aliquot of the extract is added to a stannous chloride / hydrochloric acid solution. The reduced Hg is swept out of the solution and passed into the Hg cell where it is measured by AA.

Geochemical Analysis for Ga & Ge

0.5 gram samples are digested with hot aqua regia with HF in pressure bombs.

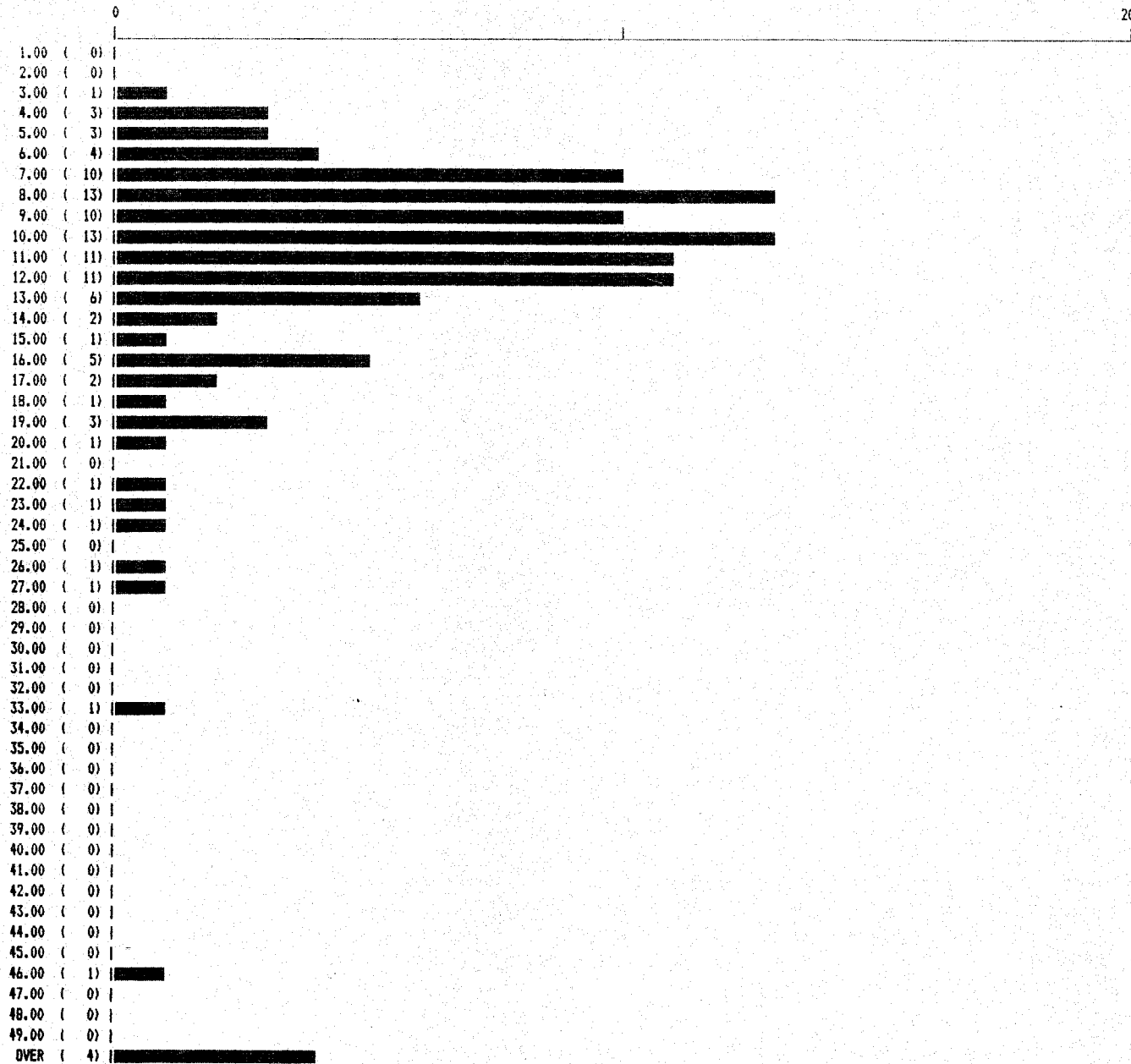
Ga and Ge in the solution are determined by graphite furnace AA.

Geochemical Analysis for Tl (Thallium)

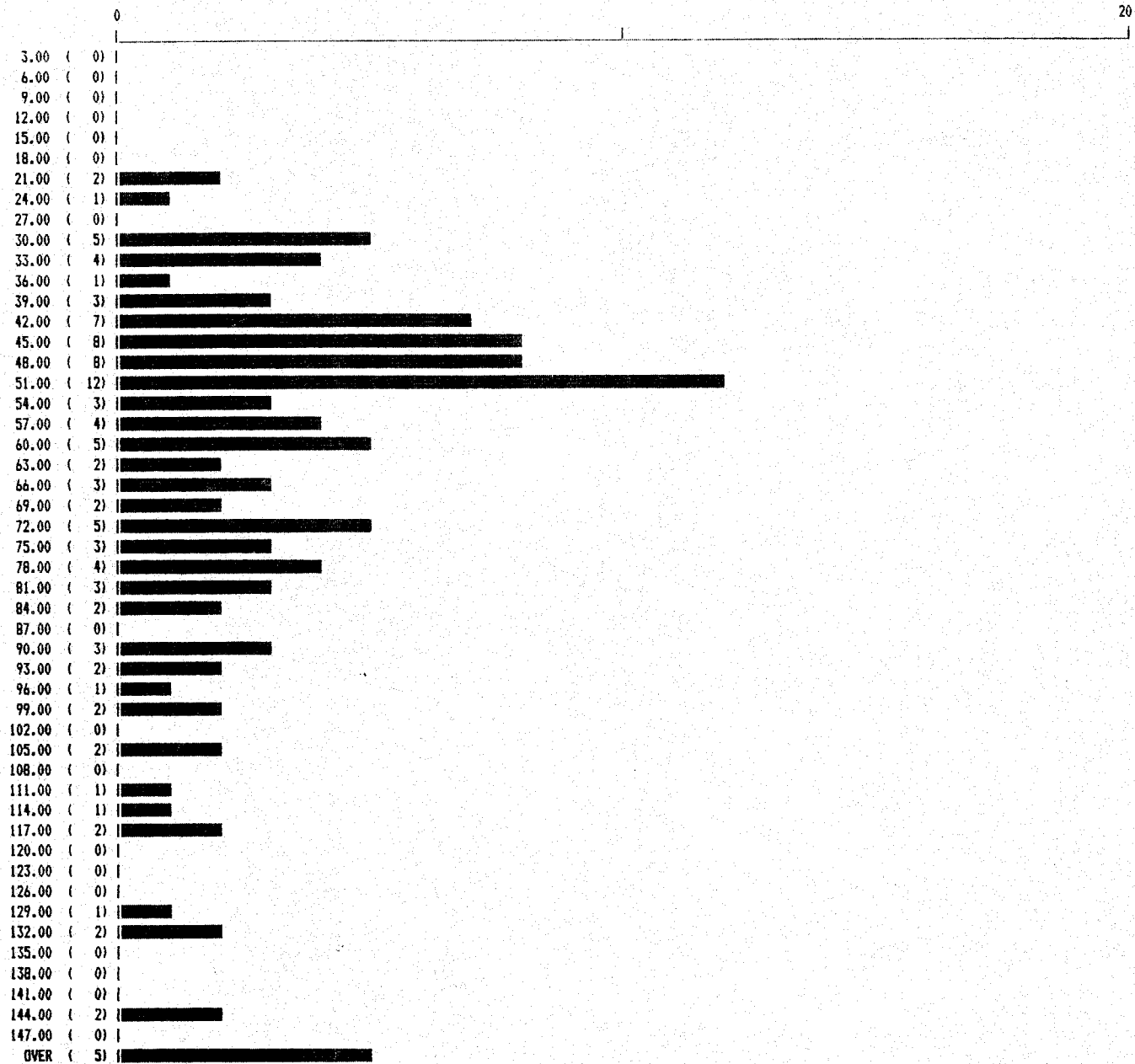
0.5 gram samples are digested with 1:1 HNO_3 . Tl is determined in the extract by graphite AA.

Geochemical Analysis for Te (Tellurium)

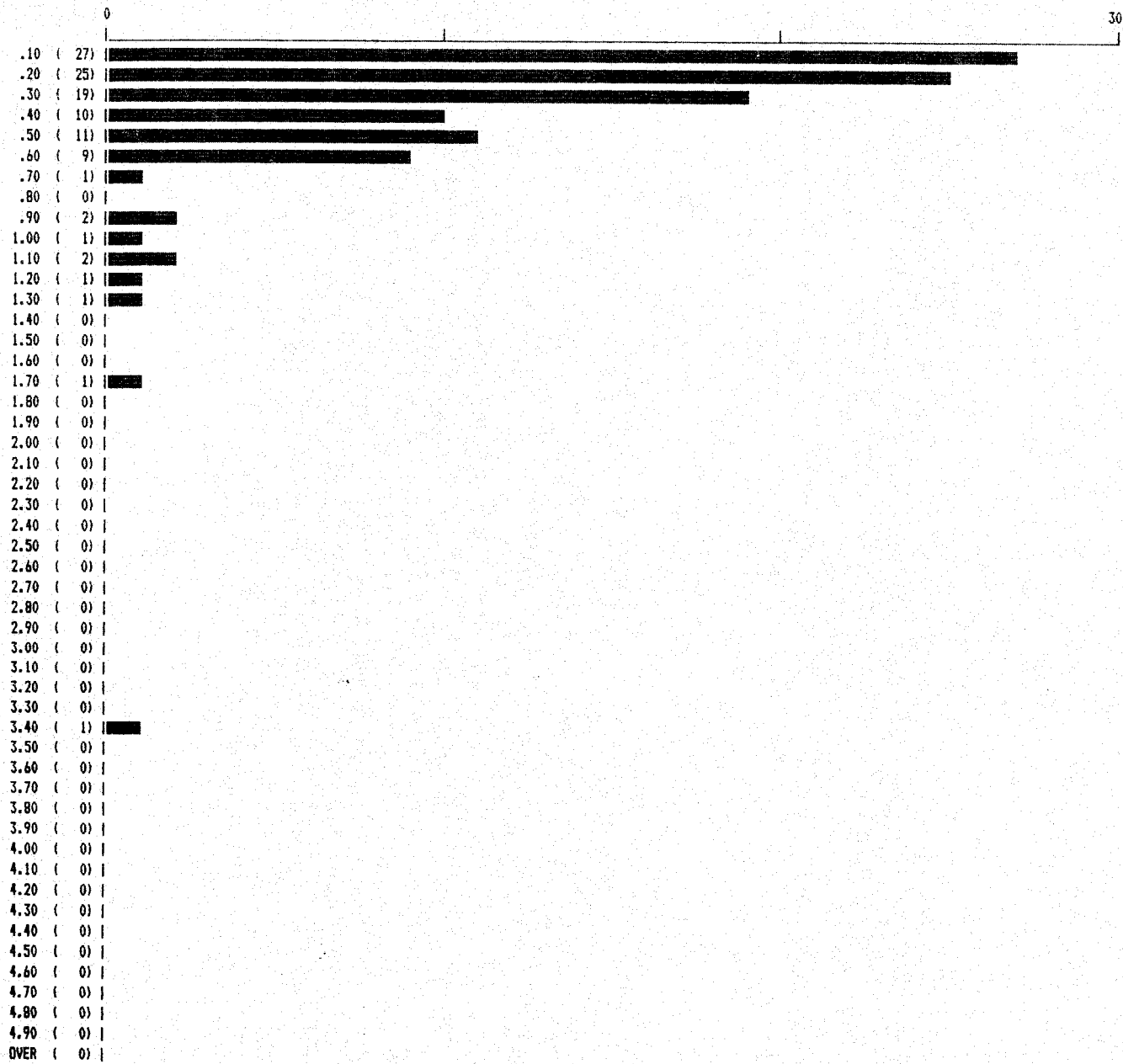
0.5 gram samples are digested with hot aqua regia. The Te extracted in MIBK is analysed by AA graphite furnace.



SAMPLE SIZE : 111 MAX : 131 MIN : 3 MEDIAN : 10
 MEAN : 15.3 S.D. : 20.58



SAMPLE SIZE : 111 MAX : 318 MIN : 20 MEDIAN : 55
 MEAN : 69.14 S.D. : 43.8



SAMPLE SIZE : 111 MAX : 3.4 MIN : .1 MEDIAN : .3
 MEAN : .37 S.D. : .4

COST DECLARATION

2 men - 4 days @ \$100 per man day	\$	800
Analysis (Acme Labs)		503
Mobilization and demob		500
Camp and food, 8 man days @ \$25		200
Cost of this report		<u>250</u>
Total	\$	<u>2,253</u>

Only the 70 samples collected on the Vale mineral claim fall within this time requirement for recording assessment work. Therefore, the qualifying costs are:

$$\frac{\$2,253 \times 70}{111} = \underline{\underline{\$1,420}}$$

Magnus Staffe

CERTIFICATE OF QUALIFICATION

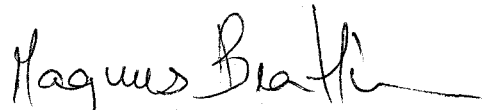
I, Magnus Bratlien hereby certify as follows:

I have been engaged in mining exploration since 1957.

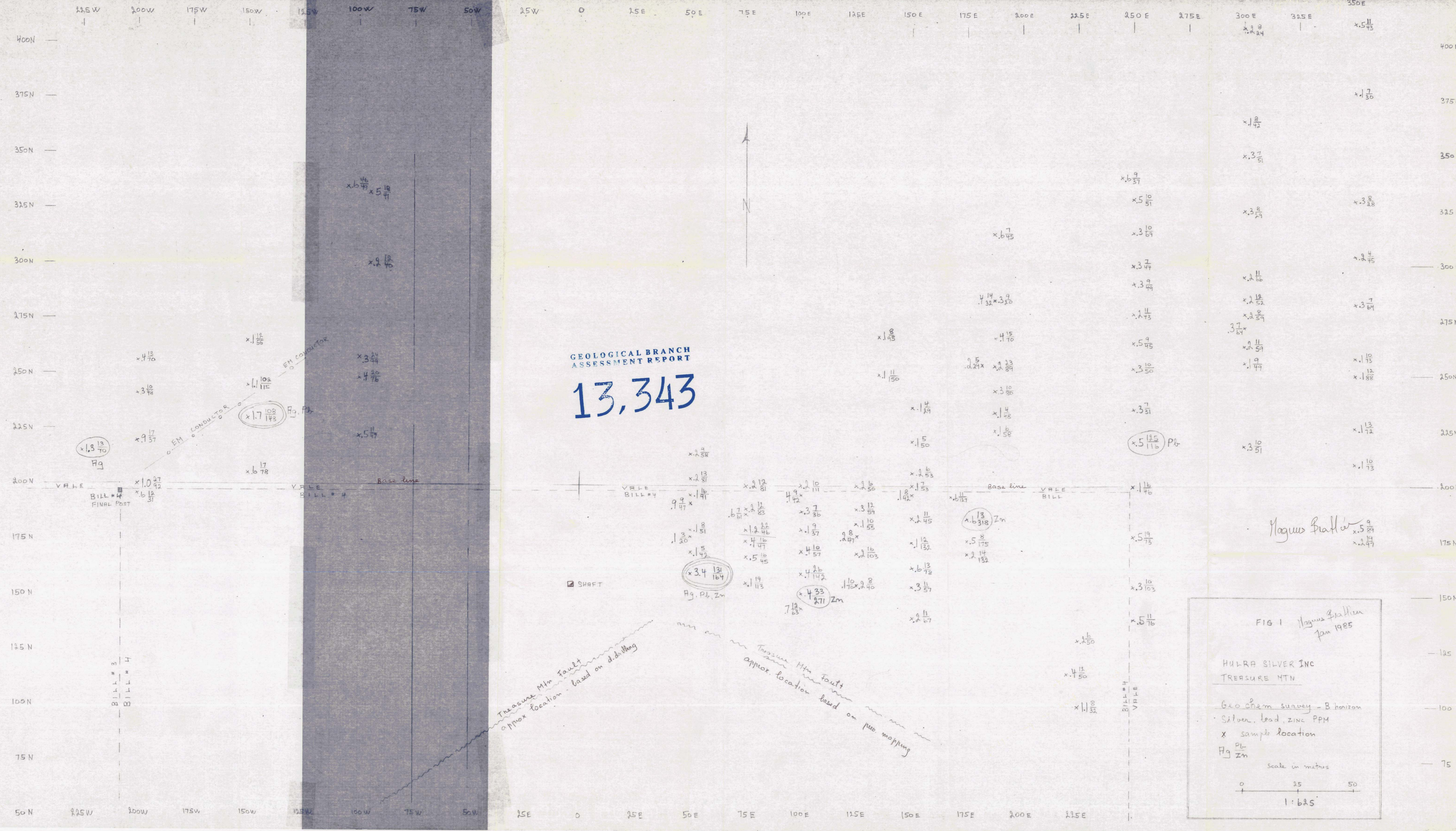
After working for Bralorne (1957), Noranda (1958-59) and Silver Standard (1960-61), I have prospected independently for the last 23 years.

I have some experience with most aspects of exploration, including geochemical surveys. Since geochemistry is such a fundamental investigative tool in exploration, I have used it extensively for a number of years.

I am the President of Huldra Silver Inc., a private non-reporting company, in which I hold a major stock position.



Magnus Bratlien
Vancouver, B.C.
March 19, 1985



GEOLOGICAL BRANCH
 ASSESSMENT REPORT
13,343

FIG 1 Magnus Brattler
 Jan 1985

HULRA SILVER INC
 TREASURE MTN

Geo Chem survey - B horizon
 Silver, lead, zinc PPM
 x sample location
 Hg Pb Zn

Scale in metres
 0 25 50
 1:625