ARIS SUMMARY SHEET

District Geologist, Nelson

Off Confidential: 94.10.19

ASSESSMENT REPORT 23075

MINING DIVISION: Golden

PROPERTY:

Fillup

LOCATION:

51 02 00 LAT 116 40 00 LONG

UTM 11 5653365 523373

NTS 082N02E

CLAIM(S):

Fillup 1, Hobo 1-2, Hobo 5-8

OPERATOR(S): AUTHOR(S):

Mountain Min. Butrenchuk, S.B. 1993, 16 Pages

REPORT YEAR:

COMMODITIES SEARCHED FOR: Barium/Barite

KEYWORDS:

Hadrynian-Cambrian, Hamil formation, Quartzites, Barite

DONE:

WORK

Geological, Geochemical SOIL 169 sample(s);BA

Map(s) - 1; Scale(s) - 1:10 000

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GEOLOGICAL AND GEOCHEMICAL REPORT

ON THE

FILLUP MINERAL CLAIM

Situated in the Parson Area Golden M.D.

NTS 82N/2E Latitude 51 02' Longitude 116 40'

STEPHEN B. BUTRENCHUK

October, 1993

GEOLOGICAL BRANCH ASSESSMENT REPORT

23,075

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GEOLOGICAL AND GEOCHEMICAL REPORT ON THE FILLUP MINERAL CLAIM

SUMMARY

The Fillup claim was staked by Mountain Minerals in 1980 to protect ground surrounding the company's barite mine. In July 1992 the Hobo claims were acquired to cover ground deemed to be favourable for barite mineralization.

Subsequent to the acquisition of the Hobo claims, preliminary soil geochemical and geological surveys were completed on the property. In 1992 75 samples were collected and analyzed for Ba. Geological mapping was done at a scale of 1:10000. Results from these surveys indicate that there is potential for locating barite deposits.

In 1993 an additional 169 soil samples were collected to complete the geochemical coverage on the Hobo claims and the northwest corner of the Fillup claim.

INTRODUCTION

Mountain Minerals produces barite from their mine located 5 km south of Parson. The mine is located on 3 Crown Granted Mineral Claims. In 1980, the Fillup claim was acquired and in 1992 the Hobo claims were staked to protect possible extensions of barite mineralization. In 1993 a program of soil geochemistry was completed on the Hobo and Fillup claims. The results of the work are described in this report.

LOCATION AND ACCESS

The Fillup property is located 5 km south of Parson, B.C. at:

Latitude 51 02' Longitude 116 20'

In particular, the claims are located 6.75 km along a main logging road from Parson. This same road provides access to the mine site. Virtually the entire property is easily accessible from logging roads tributary to the main haulage road.

PROPERTY

The Fillup mineral claim is owned by Mountain Minerals Co. Ltd. of Lethbridge, Alberta. The particulars of the claim are described as follows:

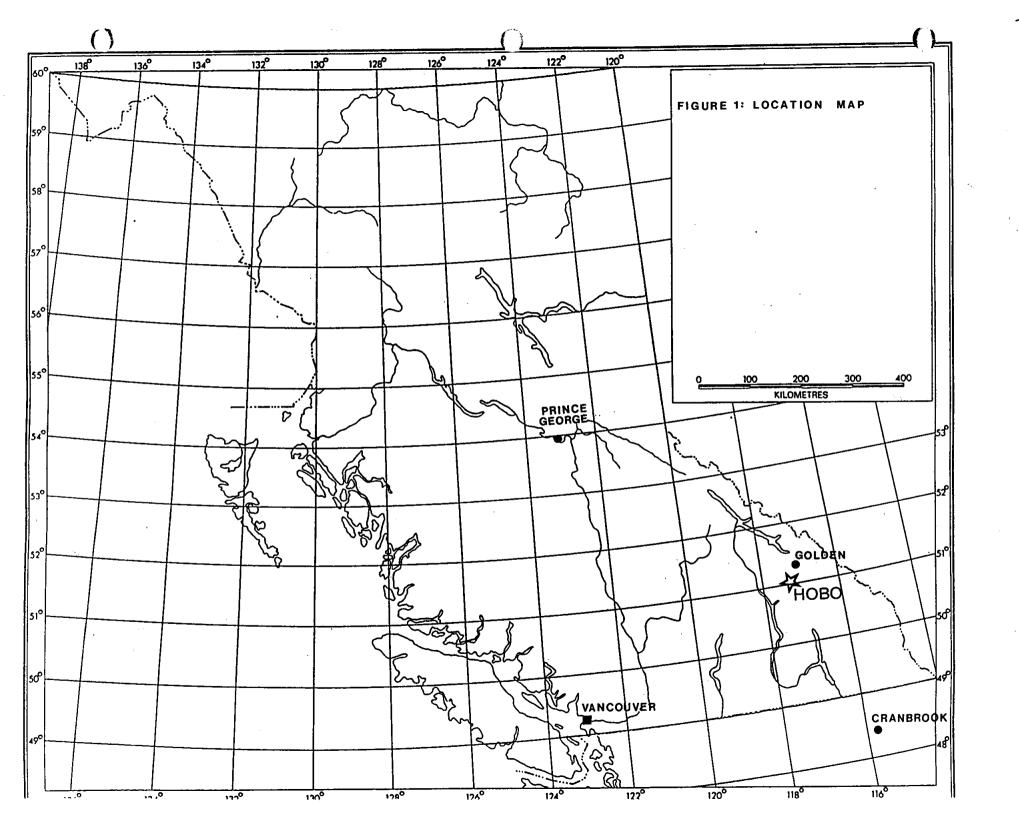
Claim	Record No.	Date Recorded	Date Due *
Fillup 1 (20 units)	213194	Oct. 21, 1980	Oct. 21, 1994

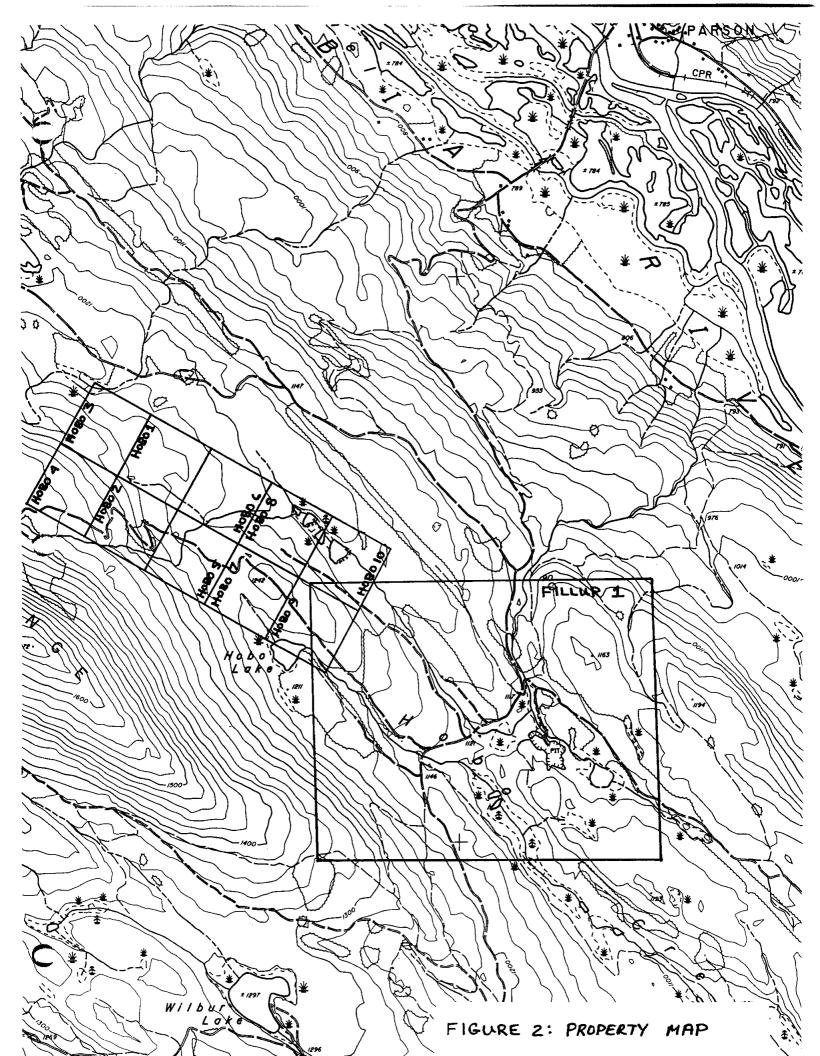
^{*} Pending acceptance of this report.

GEOLOGY

Northwest trending clastic rocks of Proterozoic to Cambrian age are present on the property. Three units have been identified on the property.

The oldest rocks present belong to the Proterozoic Horsethief Creek Group. These are predominantly shales and silty shales with quartz siltstone and sandstones. Exposures are restricted to the southwest portion of the property.





Overlying this unit are quartzite and quartzose sandstone of the Lower Cambrian Hamil Formation. Some shale and dolomite are present in the vicinity of the mine. This unit occupies the central portion of the property and is host to the barite deposits.

The youngest rocks are slate and siltstone of the Lower Cambrian Donald Formation. They are restricted to the eastern and northeastern margin of the property.

MINERALIZATION

Barite occurs in irregular fissure veins which are interpreted as originating within tensile fractures developed between two low angle thrust faults. The two main veins outcrop approximately 100 metres apart. Their strike is northerly along the southern extensions, becoming northwesterly in the northern portion. The barite is white to creamy white and coarse-grained. Minor to trace amounts of quartz, pyrite, chalcopyrite, siderite and calcite occur with the barite.

Traces of barite were observed in Hamil rocks near the northwestern end of the Hobo claims.

GEOCHEMISTRY

During the period August 15, 1993, to October 10, 1993, a total of 169 soil samples were collected on the Fillup and Hobo claims. Samples were collected at 50 metre intervals along lines spaced at either 100 or 200 metre intervals. Fourteen samples were also collected along a logging road situated in the southwest corner of the Fillup claims. Samples were collected from the "b" horizon and placed in kraft paper bags, dried and shipped to International Plasma Laboratories in Vancouver. Here the samples were analyzed for barium using a total digestion and ICP techniques.

Values for barium ranged from 423 to 1052 ppm. Anomalous values are considered to be those greater than 1000 ppm and moderately anomalous values are those greater than 800 ppm. Only one anomalous value and a few moderately anomalous values were obtained in the 1993 geochemical survey.

The overburden in this area is thick. Moderately anomalous values may be indicative of barite mineralization that has been masked to some degree by the overburden.

CONCLUSIONS

Both the geochemistry and geology of the Hobo claims suggest there is potential for locating barite mineralization. Further soil geochemistry and follow-up trenching is warranted.

Report by:

Stephen B. Butrenchuk Stephen B. Butrenchuk

STATEMENT OF EXPENDITURE

SALARIES

S. Butrenchuk - 6 days @ \$250/day \$1,500.00 A. Louie - 5 days @ \$140/day 700.00

ANALYSES

169 samples @ \$9.63/sample 1,670.00

EXPENSES

Gas, food, lodging 360.00

\$4,187.00

STATEMENT OF QUALIFICATIONS

- I, Stephen B. Butrenchuk, of 34 Temple Crescent West, Lethbridge, Alberta, do hereby certify that:
- 1. I am the Exploration Manager for Mountain Minerals Co. Ltd. of Lethbridge, Alberta.
- 2. I am a graduate of the University of Manitoba with a B.Sc. in geology (1966) and a M.Sc. in geology (1970).
- 3. I have been practising my profession in British Columbia and the Yukon since graduation.
- 4. I am a fellow of the Geological Association of Canada and a member of the Society for Mining, Metallurgy and Exploration, Inc.
- 5. This report is based upon knowledge of the Fillup-Hobo property gained from supervision of exploration work on the property.

STEPHEN B. BUTRENCHUK

Stephen B. Butrenchuk



2030 Columbia Street Vancouver, B.C. Canada V5Y 3E1 Phone (604) 879-7878 Fax (604) 879-7898

untain Minerals Co. : Sep 03, 1993 Project: None G : Aug 31, 1993 Shipper: Steve : Shippent:	iven	R	Samples aw Storage: ulp Storage:		120= Soil 00Mon/Dis 12Mon/Dis	0= Core 	D=RC Ct 	0= Pulp 	0=0ther 	[044213:09: Mon=Month Rtn=Return	Dis=Discar
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2036 Columbia Street Vancouver, B.C. Canada V5Y 3E1

Phone (604) 879-7878 Fax (604) 879-7896 SENI BY: MOUNIAIN MINEKALS

iPL: 93H3101 M Client: Mountain Minerals Co. Ltd. Out: Sep 03, 1993 Section 1 of 1 1 of 4 In: Aug 31, 1993 Certified BC Assaver: David Chiu Project: None Given 120 Soil

Project: None	: given	120 So) i i				lr	: Aug 31, 1993				Certified BC Ass	ayer: David Chi	
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Fax (604) 879-7898

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2030 Columbia, Street Vancouver, B. Canada V5Y 3E1 Phone (604) 879-7878 Fax (604) 879-7898

Client: Mountain Minerals Co Ltd iPL: 93J0103 M Out: Oct 07, 1993 Page 1 of 3 Section 1 of 1
Project: Ranchlands/Hobo/Brisco 103 Soil In: Oct 01, 1993 Certified 9C Assayer: David Chiu

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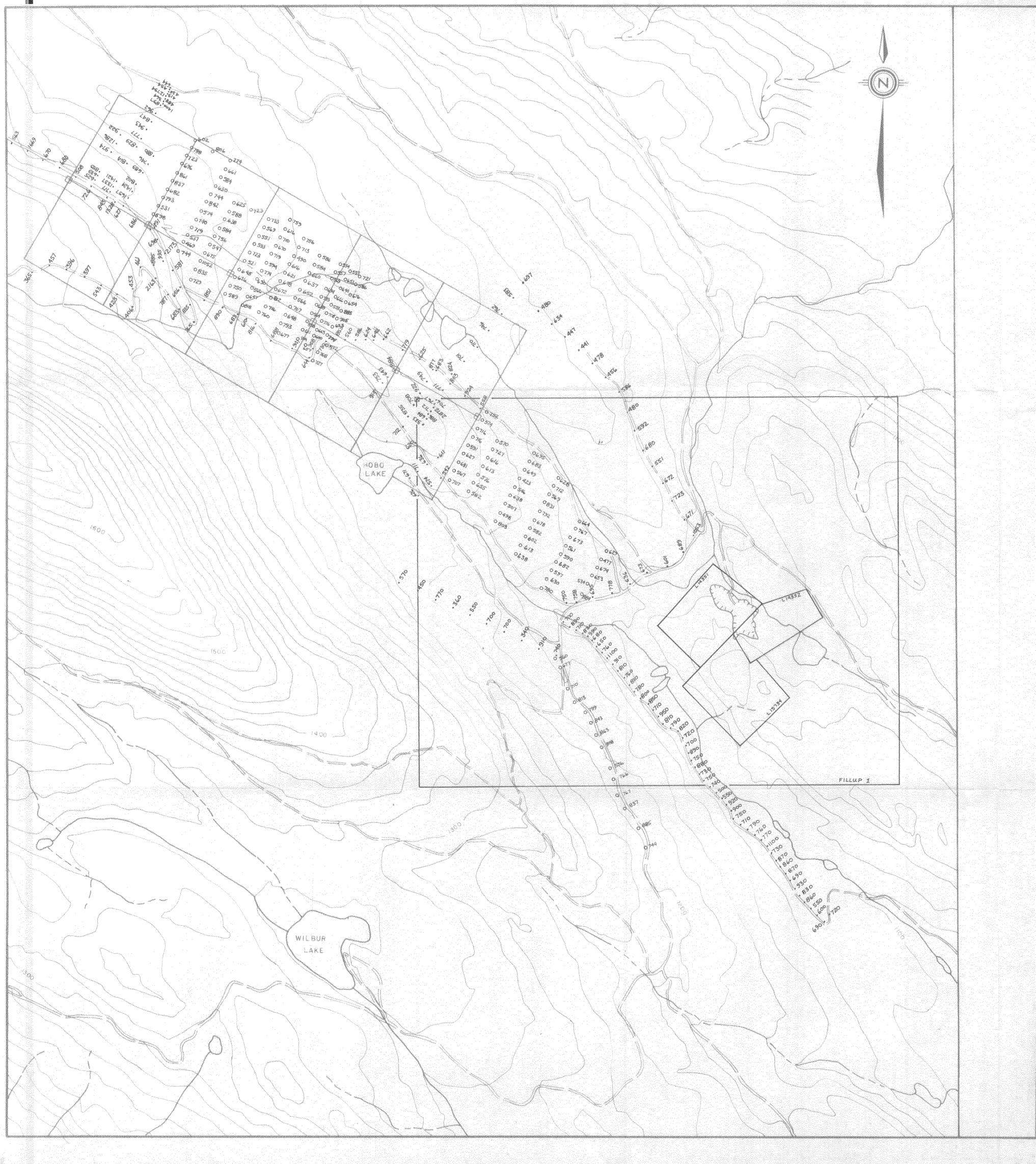


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Client: Mountain Minerals Co Ltd iPL: 9330602 M Out: Oct 07, 1993 Page 1 of 1 Section 1 of)
Project: HOBO 14 Soil In: Oct 06, 1993 Certified BC Assayer: David Chiu

Sample Name	Ва ррга	Sample Hame	Ba. ppm	Sample Name	8a ppn	Sample Name	Ba ppn	Sample Mame	Ba. ppm	Sample Name	Ва рри	
HO 93 171 HO 93 172 HO 93 173 HO 93 174 HO 93 175	\$ 660 \$ 677 \$ 710 \$ 813 \$ 799											
HO 93 176 HO 93 177 HO 93 178 HO 93 179 HO 93 180	\$ 843 \$ 863 \$ 918 \$ 556 \$ 766											
HO 93 181 HO 93 182 HO 93 183 HO 93 184	\$ 767 \$ 837 \$ 885 \$ 744											
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- 1992 Sample location
- o 1993 Sample location

SESSMENT TPORT

23,075

MOUNTAIN MINERALS CO. LTD.

714-5AM.S. LETHBRIDGE, ALBERTA. TIJ OVI, 329-0443

HOBO - FILLUP CLAIMS
GEOCHEMISTRY: BARITE

SCALE | 10000 DESIGN BY

DATE OCTOBER, 1992 REVISED OCTOBER, 1993

DRAWN BY SBB DRAWING NO. 3