

509 (1)

MINERAL HILL MOLYBDENUM PROSPECT

REPORT

ON

GEOCHEMICAL SURVEY

WOLF and BEAR GROUPS

OWNERS:

W.D. YORKE-HARDY  
and  
P.J. BUBER

Located 30 Miles East of Smithers, B.C.

On Mineral Hill Mountain

Omineca Mining Division

54°-126° NW

By: R.E. Anderson, P.E., B.C.

4th October, 1963

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Scale 1" to 100'

<p><b>Department of</b> <b>Mines and Petroleum Resources</b> <b>ASSESSMENT REPORT</b></p> <p>NO. <u>509</u> MAP .....</p>
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GEOCHEMICAL SURVEY REPORT  
on  
WOLF and BEAR GROUPS

INTRODUCTION:

The claim groups discussed in this report are located in north-central British Columbia, lying on the southern flank of Mineral Hill, approximately 30 miles southeast of the village of Smithers. Exploratory investigations of the prospect area included a magnetometer survey and the collection of soil samples for the determination of molybdenum content. These surveys were undertaken during the latter part of October 1962 and early November 1962 by Southwest Potash Corporation under the direction and supervision of R.E. Anderson, P.E., B.C.

LOCATION AND ACCESS:

Mineral claims covering the prospect area are located on the southern and western flanks of Mineral Hill. Elevations within the claim block range from 2600 to 3500 feet above sea level. The terrain is heavily wooded and for the most part is extensively covered by an unknown thickness of humus, soil and rock debris. Provincial Highway No.16 adjoins the western boundary of the claim block, and access to the showings from this point is provided by approximately one mile of dirt road. The access road trends easterly from Highway 16, passing through the Hungry Hill Ranch and skirting the northern end of Government (Fishpan) Lake.

FIELD PROCEDURE:

A grid pattern was established by chain and compass methods over ~~and~~ an area measuring approximately 2200 by 2100 feet. Grid lines were spaced 100 feet apart and collecting stations established at 100 foot intervals along each of the lines. Extensive line cutting was required because of dense brush covering most of the grid area.

GEOCHEMICAL SURVEY:

The geochemical survey consisted of a careful collection of soil samples from each of the grid collecting stations. Samples were taken from soils lying two to three inches below the humus covering. These were analyzed in a preliminary manner in the field using a slight modification of Ward's Method, as published by the United States Geological Survey. A more detailed sample analysis was made at a later date in the Kennecott Copper laboratory in Vancouver, B.C. The laboratory results are shown on Plate 1.

INTERPRETATION:

A good sample, representative of the "B" horizon, could be obtained over most of the grid area. It is improbable that changes in depth of this horizon, usually ranging from six to twelve inches would seriously affect results. Although the depth of overburden is unknown, hillside contours suggest it may increase quite rapidly toward the floor of the valley in the southwest portion of the grid. Anomalous geochemical values obtained in this section may possibly be attributed to "creep" from upslope surface exposures. In the thinly covered northwestern section of the grid anomalous values suggest the presence of an underlying or nearby source of MoS<sub>2</sub> mineralization.

The following is a summary of personnel involved and costs incurred in completing the Geochemical Survey on the Wolf and Bear Claim Groups:

(1) Line Cutting:

H. Marko -	Oct. 15-21, 1962 @ \$15 per day	- \$105.00
W. Yorke-Hardy-	Oct. 15-21, 1962 @ \$15 " "	- \$105.00
R. Yorke-Hardy-	Oct. 15-21, 1962 @ \$15 " "	- \$105.00
W. Rigler -	Oct. 15-21, 1962 @ \$15 " "	- \$105.00
R. McMillan -	Oct. 15-21, 1962 @ \$15 " "	- \$105.00
R. Anderson -	Oct. 15-21, 1962 @ \$15 " "	- \$105.00

(2) Sample Collection:

W. Rigler -	Oct. 22-25, 1962 @ \$15 per day	- \$60.00
R. McMillan -	Oct. 22-25, 1962 @ \$15 per day	- \$60.00

(3) Laboratory Analysis:

Kennco Explorations, (Western) Ltd.  
Vancouver, B.C. - 422 samples @ \$1.25 - \$527.00

(4) Map Preparation:

R. Anderson -	Oct. 3-4, 1963 @ \$15 per day	- <u>\$30.00</u>
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Total - \$1307.00

  
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R.E. Anderson, P.E., B.C.

4th October 1963

APPENDIX A

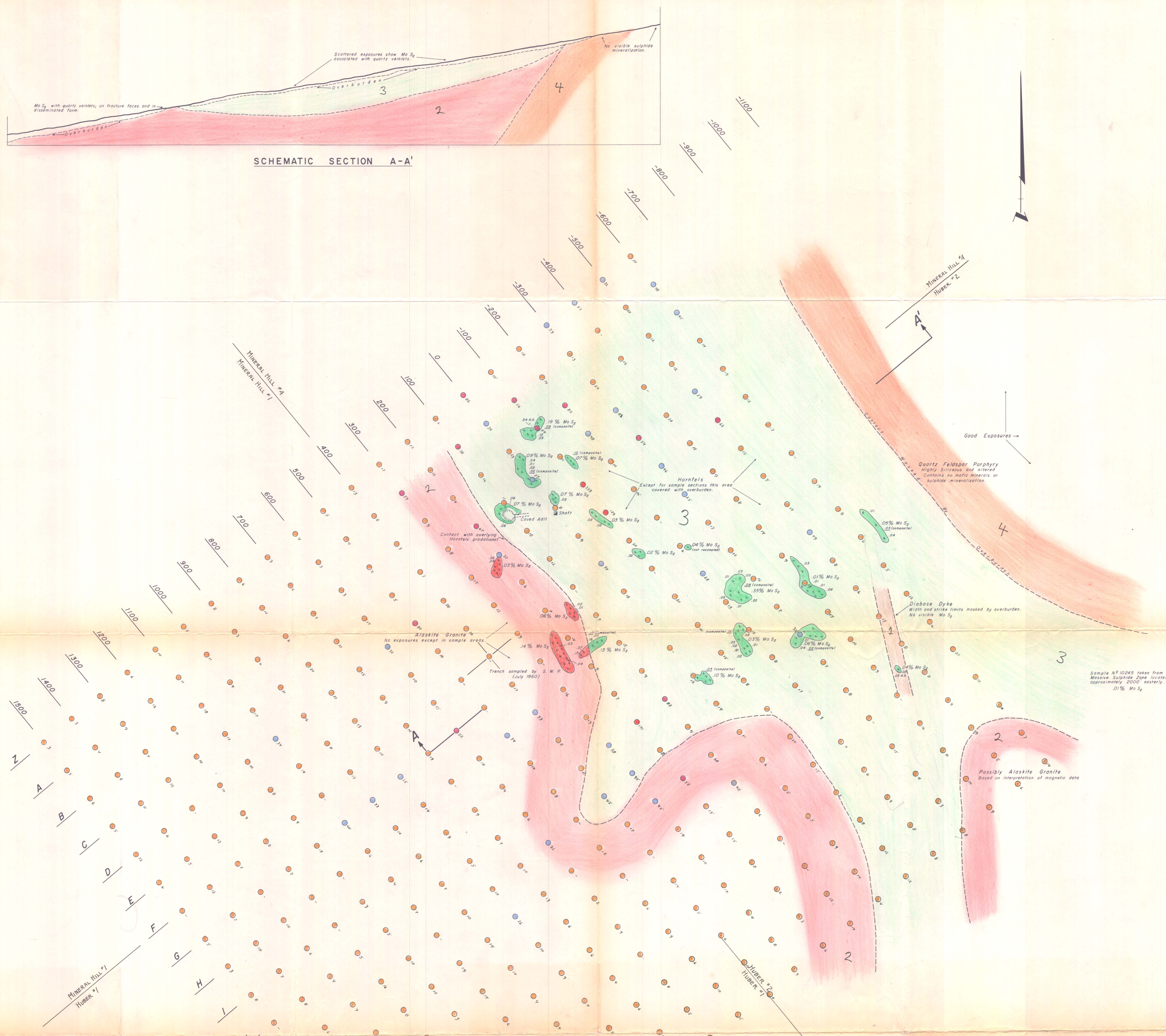
93M / 1E

Mineral Claim Schedule

BEAR GROUP:	<u>Claim Name</u>	<u>Record Number</u>
	Mineral Hill No. 1	12486
	Mineral Hill No. 2	12487
	Mineral Hill No. 3	12488
	Mineral Hill No. 8	<del>12997</del>
	Huber No. 1	15758
	Huber No. 3	15760
	Huber No. 4	15761
	Huber No. 11	15763
	Huber No. 12	15764
	Huber No. 13	15765
	Huber No. 14	15766
	Huber No. 15	15767
	Huber No. 16	15768

WOLF GROUP:	<u>Claim Name</u>	<u>Record Number</u>
	Mineral Hill No. 4	12489
	Mineral Hill No. 7	12996
	Huber No. 2	15759 August
	Huber No. 9	16058
	Huber No. 10	16059
	Huber No. 17	16909
	Huber No. 18	16910
	Huber No. 19	16214
	Huber No. 20	16215
	Huber No. 21	16216
	Huber No. 22	16217
	Huber No. 23	16218
	Huber No. 24	16219
	Huber No. 25	16220
	Huber No. 26	16221
	Huber No. 27	16222
	Huber No. 28	16223
	Huber No. 29	16224
	Huber No. 30	16225
	Huber Fraction No. 1	16060





**EXPLANATION**

4 Quartz Feldspar Porphyry.  
 3 Argillaceous Hornfels.  
 2 Alaskite Granite.  
 1 Diabase Dyke.  
 Sample Area.  
 or .17% MoS<sub>2</sub> Assay Value. — Loudon, Anderson Sampling  
 --- Contact Approximate or Inferred.

**GEOCHEMICAL SOIL SAMPLES**

● >100 ppm Mo  
 ● 50-100 ppm Mo  
 ● 25-50 ppm Mo  
 ● or trace Mo  
 ● < 25 ppm Mo

Department of  
 Mines and Petroleum Resources  
**ASSESSMENT REPORT**  
 NO. 509 MAP 1

SOUTHWEST POTASH CORPORATION  
 MINERAL HILL Mo<sub>2</sub>S<sub>2</sub> PROSPECT  
 SURFACE PLAN SHOWING  
**GEOLOGY AND GEOCHEMICAL SAMPLING**  
**SAMPLE AREAS**

SCALE 1" = 100'

R.E. Anderson  
 Vancouver, October 4, 1963 H.P.