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**REPORT CONCERNING MINERAL OCCURRENCES**

on

**CLAIMS HELD BY M.H. EWING ( BLEILER )**

on

**MT. HALDANE**

**MAYO DISTRICT**

**YUKON TERRITORY**

by

**J. McANDREW**

**August 10, 1962**

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## INTRODUCTION

During the period August 6 to 9, 1962 an investigation of mineral occurrences was made on a group of 19 claims held by M.H. Ewing (& Bleiler) on Mount Haldane. Mr. Ewing and his son John spent 2 days with the author familiarizing him with the showings. This report deals with the various areas of mineralization seen on said property.

## ACCESS

Ewings' holdings on Bighorn Gulch are reached by turning off the Mayo-Elsa gravel road at Halfway Lakes proceeding along the Haggart Creek Road (gravel and dirt) for approximately 6 miles then turning right on to a dirt, gravel and quartzite access road which goes for another 7 miles to property. This road is maintained by the Ewings. It has a good grade of from 1 - 4 degrees.

A panel truck was "driven" to the camp (1 log cabin in poor repair) but there were stretches where it had to be towed by a D4 tractor because of mud.

The Haggart Creek Road is in good repair. It would be necessary to put in a few drainage ditches to make the 7 mile access road serviceable for truck or jeep.

While at the camp the Ewings prepared a heliport in front of the cabin for quick access.

## PREVIOUS WORK

There have been numerous reports on the mine workings on the SW side of Bighorn Gulch, The 3rd level portal of which lies approximately 400 feet SE of the remaining cabin and at an approximate elevation of 3600 ft.

PREVIOUS WORK (Cont'd)

Unfortunately all the old reports, geological maps, assay plans and results were not available. Those that were are attached to this report. A few comments on these follows:

1. Cockfield's Report On Lookout Mtn. - Geological Survey 1919

If the report is checked against the plan of the underground workings of Yukon Silver-Lead Mining Co. Ltd. some discrepancies will be noted. For some reason the plan was orientated with south uppermost. Assuming this to be correct the vein does not dip to the NE as stated by Cockfield but to the SW. ~~It~~ Norppa supports this observation in his report.

2. Supplemental Report To The Directors On The Properties Of Lookout Mountain Mines Ltd., 331 Bay Street, Toronto, Ontario - E. Norppa, July 14, 1952

Conclusions based mainly on grab samples from dumps and previous reports.

3. Assay Results of Samples Taken By MacLeod White of United Keno Hill Mines Ltd. - Calumet, December 22, 1953

These cannot be located exactly but probably in 3rd and 4th level of the mine.

4. Assays Submitted By M.H. Ewing to A.R. Bullis - Mackeno Mines Ltd., November 3, 1956

These have been plotted along with other available and locateable results on the reorientated plan of the underground workings.

5. Schellinger's Map Mentioned By MacLeod White (Missing)

At the time of this report (J. McA. August 10, 1962) the 1st level was caved at 25.0 feet from portal and only safe to 18.0 feet; the 2nd level was caved at portal and the 3rd level portal badly crushed and deemed unsafe. The dumps were resampled (diagram attached) and the 1st level extensively sampled to 18.0 feet from portal (see plan of underground workings).

GEOLOGY

Referring to the preliminary map 43 - 9 Upper McQuesten River, Yukon (scale 1" - 2 miles) it will be noted that the group of claims under consideration lie within the Central Quartzite of the Yukon Group, considered the best formation for possible silver-lead mineralization. Greenstone (probably originally diorite and granodiorite) intrusions noted during the recent mapping are missing from this sheet. They have been put on the geological reconnaissance map accompanying this report.

The quartzite (interbedded with phyllite-schist in places) generally strikes N 55° W to E-W and dips from 15 to 42 degrees S. There is one marked exception above the 3rd level dump on the geological reconnaissance map. A strike of N 30° E and dip of 60° SE was recorded. This may be the reflection of a major shear or fault zone that seems to strike N 15° E from the "Limonite Vein" to the old digging where sample 14837 was taken. Numerous mineralized faults and fractures (striking predominately N 15° E) on the NE side of Bighorn Gulch tend to support this assumption.

There is considerable greenstone intrusion throughout the eastern portion of the claims. Sets of fractures striking N 15° E and dipping from 65° E to 86° W are abundant in the greenstone. Some of these contain considerable rust stain (oxidized finely disseminated pyrite). A drill hole from the 4th level (exact location unknown) went through approximately 70 feet of highly altered greenstone with galena-bearing quartz stringers.

A second set of faults and fractures striking N 15-40° W and dipping 40-80° SW cut the area. At the Johnson Adit and Bighorn Gulch Mine they seem to account for the greater mineral concentration and higher silver and lead values. An exception to this "pattern" of mineralization was at the old digging where sample 14840 was taken. Only 1 set of fractures striking N 15° E and dipping 80° E was observed. However, most of these were barren.

### GEOLOGY (Cont'd)

Looking back on the ground above the mine from the NE side of Bighorn Gulch a vague lineation running approximately N50°W was seen. There was little to support this in traversing the ground.

Unfortunately the mine could not be entered far enough to get any overall structural picture of the worked vein. Cockfield, in his report, does go into this in some detail.

Geological mapping was restricted due to overburden. On the NE slopes of Bighorn Gulch this took the form of extensive quartzite talus.

### CONCLUSIONS AND RECOMMENDATIONS

In view of the many mineral occurrences in this area and the high grade assays for silver in reported grab samples, this group of claims and the surrounding area would appear to merit more work. The host rock is favourable, a great deal of faulting and fracturing has taken place, greenstone intrusion is abundant - all these criteria tend to support this contention.

(1) Unfortunately there is nothing available at present ( if there ever was? ) giving an overall tonnage and grade of the vein material drifted in at the Bighorn Mine. A good structural picture of the vein is also missing.

By reopening the 3rd and 4th levels and mapping and sampling enough information could be gained to indicate just what the "ore" picture is and its possibilities. Too much faith cannot be put in grab samples from the dumps due to an old rumour of salting. The task of gaining reentry to the above mentioned levels would not be difficult.

CONCLUSIONS AND RECOMMENDATIONS (Cont'd)

(2) Why Andy Johnson stopped working at his adit on the NE side of Bighorn Gulch is not known by the author. There ~~is~~<sup>are</sup> abundant fractures and faulting in this area. Most of these carrying at least manganiferous and/or limonitic stain. Some geophysics across this major belt of fracturing might point out a conductor.

Access to the old workings could probably be reached without to great an expenditure. Drilling might prove difficult due to the tremendous talus slopes.

(3) Since Louis Beauvette reported finding his best float samples along the Gulch named after him several days of prospecting should be spent in this area.

(4) Outcrop is poor on DE claims 1-6. These were staked primarily to cover a band of breccia float reportedly 200 - 300 yards wide in places. Another indication of faulting through this area. Some geophysics or soil sampling would be in order here.

(5) A look should be taken at Steve Arbutino's showing on the Sattle and Vancouver Claims to see how it fits into the overall picture. Arbutino mentioned that someone was to drill this for him at the end of August. He reported grab samples of 190 - 220 ounces silver/ton. The galena occurred scattered throughout a white fractured and brecciated quartz vein ( sample seen at cabin ).

Recommendations (3) and (5) could be dealt with anytime. Any further work on the Ewing Group should await assay results on the 24 samples now being treated at Whitehorse assay office.

Probable expenditures on this group of claims to date.

(1) Mine Workings	60 - \$70,000
(2) Options	20,000
(3) Misc.	10,000
	<hr/>
	\$100,000

John M. McAndrew  
Geologist  
August 10, 1962  
Mayo, Yukon Territory

LIST OF SAMPLES FROM MT. HALDANE

<u>Sample Number</u>	<u>Location</u>	<u>Description</u>	<u>Assay Results</u>			
			<u>Ag<sup>(ass)</sup> / (%)</u>	<u>Pb%</u>	<u>Zn%</u>	<u>Mn%</u>
A1 14834	Geol. Recon. Map	Brecc. qtzite & wh. qtz. in limonite, mangan. matrix	0.22	Nil	0.2	Na
A2 14835	Floor of 1st level 16' from portal	Steel galena in gangue of brecc. wh. qtz. limon., mang (grab)	38.8	12.6	0.6	Na
A3 A4 14836	1st level dump Geol. Recon. Map	Discarded Brec. qtz, with limon. & mang staining	3.60	0.1	2.0	Na
A5 14837	Geol. Recon. Map	Brecc. qtzite, very mang. (fills fract <sup>s</sup> ) wh. qtz. stringers, limon.	0.80	Nil	Nil	Coming
A6 14838	Geol. Recon. Map	Ditto above, more limon and earthier	14.5	1.7	5.3	Na
A7 14839	Geol. Recon. Map	Ditto above	0.50	Nil	1.7	Na
A8 14840	Geol. Recon. Map	Cubic galena in gangue of calcite, sider., & limon. (6" thk)	9.20	6.3	Na	Na
A9 14841	Geol. Recon. Map	Highly fract. gry. qtzite with limon. & mang. staining	0.84	Nil	0.6	Na
A10 14842	1st level dump D	Cubic & steel galena in a gangue of crushed wh. qtz., siderite, limon. and mang. minerals	159.8	6.4	Na	Na
A11 14843	1st level dump D	Ditto	46.7	9.7	Na	Na
A12 14844	3rd level dump diag	"Sorted" ore almost entirely fine grained steel and galena and lead carbonate, minor amts cubic gal., blebs qtz.	84.8	35.9	Na	Na
A12A 14845	Map Johnsons Adit	Crushed qtz. in a matrix of lim. & mang. minerals	11.2	10.7	1.6	Na
A13 14846	Map Johnsons Adit	Cubic galena in • gangue of limon., mang. crushed and leached qtz.	135.3	63.4	Na	Coming

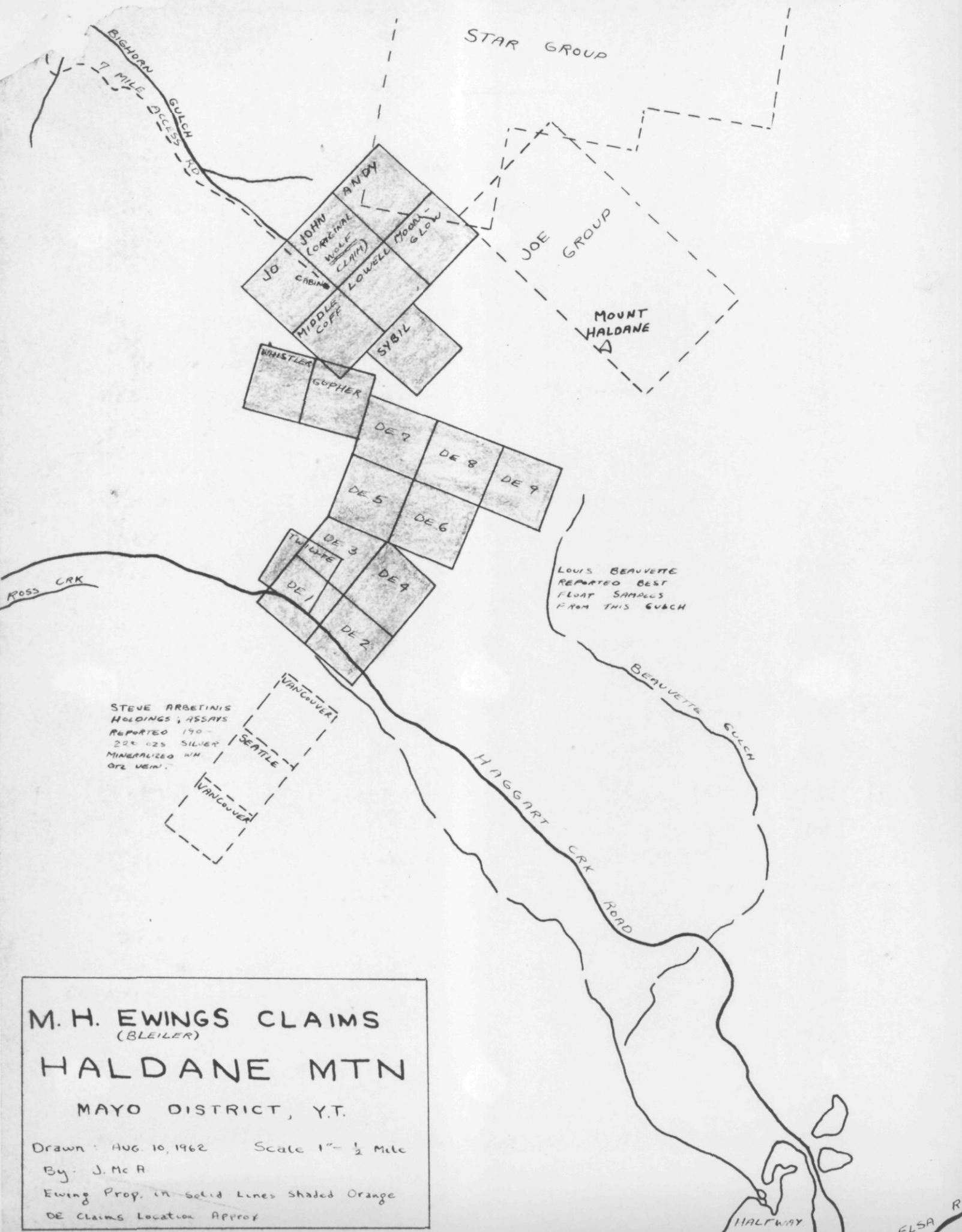
LIST OF SAMPLES FROM MT. HALDANE (Cont'd)

<u>Sample Number</u>	<u>Location</u>	<u>Description</u>	<u>Assay Results</u>			
			<u>Ag%</u>	<u>Pb%</u>	<u>Zn%</u>	<u>Mn%</u>
A14 14847	2nd Level Dump	Essentially same as #10 sample	21.5	14.4	Na	Na
A15 14848	2nd Level Dump	Ditto	31.9	16.4	Na	Na
A16 14849	2nd Level Dump	Ditto	37.4	24.2	Na	Na
A16A 14850	3rd Level Dump	Highly fract. qtzite. with pyrolusite, limon. blebs of wh. qtz.	5.04	1.8	Na	Na
A17 14776	3rd Level Dump	Ditto above	3.30	1.3	Na	Na
A18 14777	3rd Level Dump	Ditto above	8.70	13.8	Na	Na
A19	3rd Level Dump	Barren, earthy, chloritic schist, discarded				
A20 14778	0-6.0' from portal, 1st level RT & LF sides. See Mine Plan	Highly fract. & leached qtzite. limon. with mang. stain	13.4	2.1	Na	Na
A21 14779	6.0-12.0' from portal, first level RT side	Ditto	5.50	0.8	Na	Na
A22 14780	12.0-18.0' from portal, 1st level RT side. Too dangerous beyond here to sample	Essentially same as above but at 14.0' pronounced cubic galena mineralization start of "ore" zone	20.4	5.1	Na	Na
A23 14781	3 1/2' across fracture (1' above 2 1/2' below to floor) 14' from portal RT side	Cubic galena in gangue of siderite, manganese minerals, limonite & brecc qtz. (very similar to that found on Andy Johnsons sorting pile on the N. side of Gulch)	97.8	15.8	Na	Coning

LIST OF SAMPLES FROM MT. HALDANE (Contd)

8.

<u>Sample</u>		<u>Description</u>	<u>Assay Results</u>			
<u>Number</u>	<u>Location</u>		<u>Ag%</u>	<u>Pb%</u>	<u>Zn%</u>	<u>Mn%</u>
A24 14782	14.0-18.0' from portal, 1st level RT side	Sorted out the best looking "ore" (most galena mineralization)	67.6	10.1	Na	Na
A25 14783	Geol. Recon. Map	This piece of float is about the same as the above only less cubic galena (probably from 1st level blasting)	9.70	5.7	Na	Na
A26 14784	From old drill core (Ex) 2 Bx's approx. 70', no footages left on tags	Cubic galena mineralization in small stringers in highly brecc. altered and leached greenstone	3.20	3.0	Na	Na



**M. H. EWINGS CLAIMS**  
 (BLEILER)  
**HALDANE MTN**  
 MAYO DISTRICT, Y.T.

Drawn: Aug. 10, 1962      Scale 1" = 1/2 Mile  
 By: J. McR.  
 Ewing Prop. in solid lines shaded Orange  
 DE Claims Location Approx

GEOLOGICAL RECONNAISSANCE IN AREA of M. H. EWINGS CLAIMS



BIGHORN GULCH, MOUNT HALDANE  
(Sample locations noted)



- Fault Zone
- Central Quartzite
- Greenstone
- Fault
- Fracture
- Probable Fault
- Schistosity

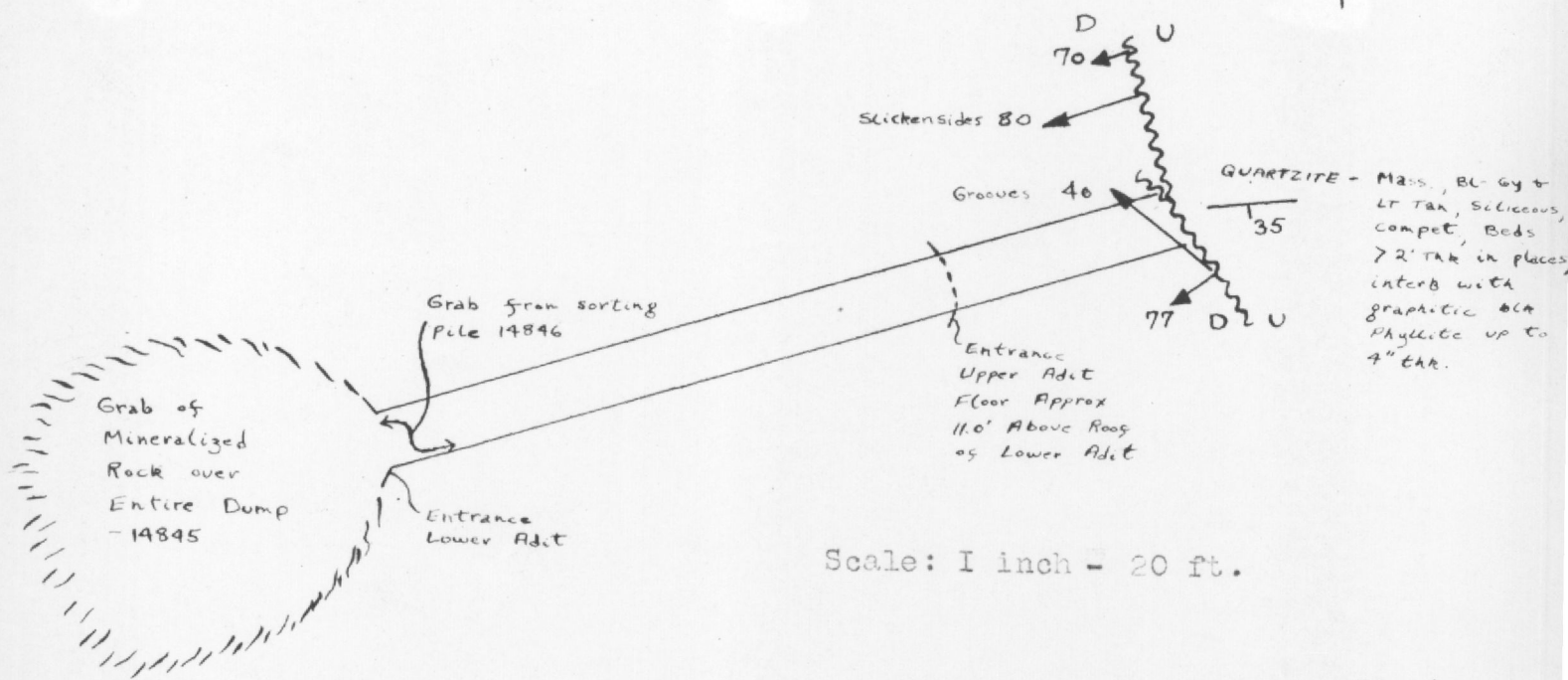
Scale 1 inch - 3000 ft.

Aug. 10, 1962.

J. Mc A.

ANDY JOHNSON'S WORKINGS NE SIDE

BIGHORN GULCH ( PLAN )



Johnson is reported to have shipped 1 ton of sorted ore from this working. A check on this might be made at the Mayo recording office. A grab sample, probably from his sorting pile, is said to have run 300 ounces of silver / ton.

He ran 2 adits to reach the intersection ( at depth of approx. 20' ) of 2 NW trending faults which are exposed at surface. In an area where the faulting and fracturing pattern is generally NE 15-17 degrees and in places slightly mineralized, the Johnson occurrence would suggest a second fault and fracture pattern with a greater concentration of mineralization.

The old adits are walled with uncemented blocks of quartzite and roofed by rotted timber over which large pieces of quartzite talus have clumped. The easiest and probably safest means of access to the old workings would be by sinking a shaft down along the first fault face.

The ore from the Johnson adits greatly resembles that taken from the right wall of the 1st level of the mine on the SW side of BH Gulch. Compare samples A13(A.J.) and A23(BHGM, from area of 2 sets of fractures N17E and N40W).

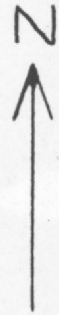
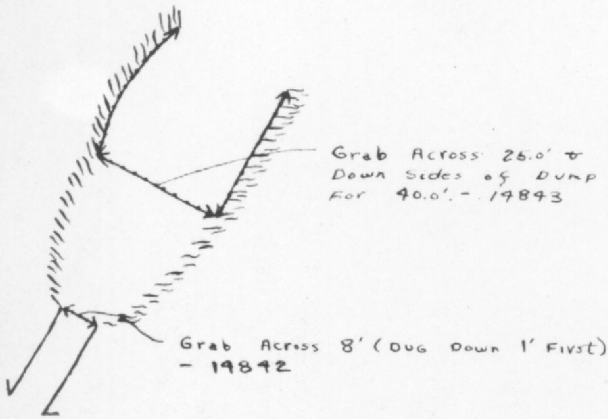
185 oz/ton  
 ↓  
 Wolf # 16478  
 March 5-26,  
 Dec 31-24 to  
 Dec 31-25  
 1,484 tons  
 199.84 ozs Silver  
 16200 LBS LEAD  
 Value realized  
 \$267.99  
 H. R. JOHNSON  
 STAKED WOLF  
 CLAIM 6 FEB 1918  
 SWORN AT MINTO  
 BRIDGE 9 FEB 1918  
 D. P. McLENNAN  
 MINING RECORDER

Aug. 10, 1962

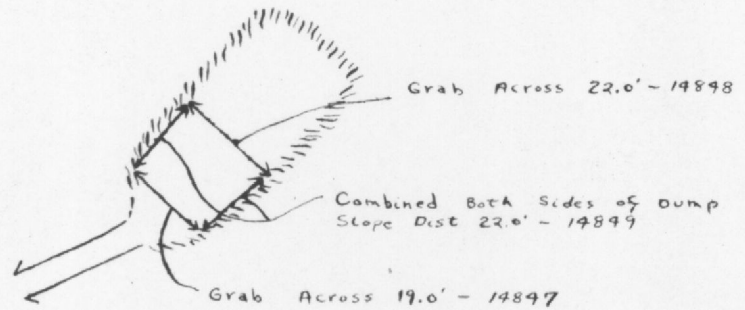
J. Mc A.

PLANS OF DUMP SAMPLING

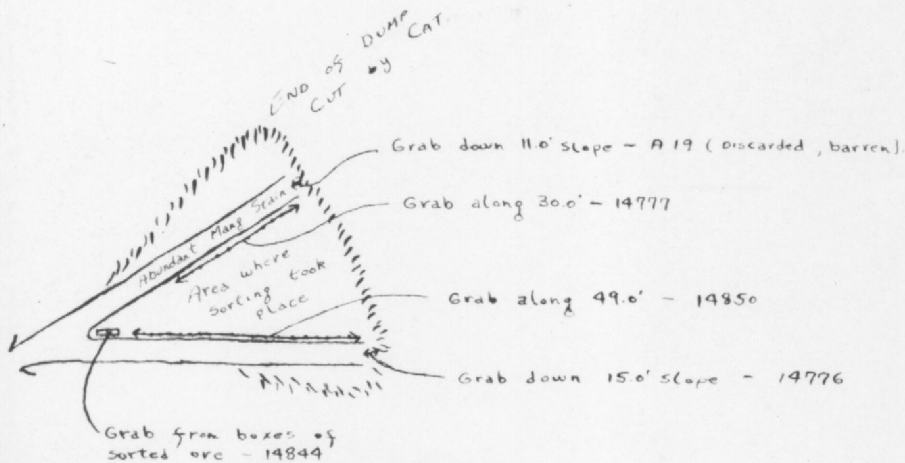
1st Level Dump



2nd Level



3rd Level



Scale: 1 inch - 40 ft

Aug. 10, 1962

J. Mc A.

STA "A"

BIGHORN GULCH

GRAB SAMPLES OF DUMP  
(a) 130 OZ. SORTED ORE  
(b) 91 OZ.

3RD LEVEL  
ENTRY  
UNSAFE

STA "B"

5.9 OZ STRINGER

PLUG "2"

TRUE

WINZE

PLUG "3"

4TH LEVEL

28.90 OZ.

106 OZ (APPROX LOCATION)

"BEST ORE"  
INCLINE 2  
4 ASSAYS ACROSS 10'  
34.34 OZ, 45.57 OZ

GRAB SAMPLES OF DUMP  
(a) 154 OZ. (SORTED ORE)  
(b) 278 OZ.

2ND LEVEL

PORTAL CABLE

STA "C"

PLUG "B"

PLUG "E"

RAISE

GRAB SAMPLES OF DUMP  
(a) 154 OZ. (SORTED ORE)  
(b) 278 OZ.

2ND LEVEL

PORTAL CABLE

STA "C"

PLUG "B"

PLUG "E"

RAISE

14779 6.0'

14780 6.0'

1ST LEVEL

197 OZ.

3.5 (ACROSS FRACT) 14781

14.0'-18.0' (SORTED OUT BEST "ORE") 14782

WINZE BEHIND (18.0')

STA "D"

14778 6.0'

14778 6.0'

14778 6.0'

WINZE DOWN DIP OF P21W

CAVED

PLAN OF UNDERGROUND WORKINGS OF YUKON SILVER-LEAD MINING COMPANY EWING-BLEILER PROPERTY ON MT. HALDANE MAYO MINING DISTRICT YUKON  
1 IN. = 20 FT.

\* TRACED FROM OLD PLAN WITH ADDITIONAL NOTES BY SAC ANDREW (1942)

VEIN MATERIAL CROSS-HATCHED  
AVE STRIKE 120-150 MAGN. (COCKFIELD)  
AVE DIP 45-55° SW ( " )

