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Report on
FOGHORN MINERAL CLAIMS
FOGHORN MOUNTAIN AREA
KAMLOOPS MINING DIVISION, B.C.

for

SANDY FENNEL AND MARSTON FENNEL

of

BARRIERE, B.C.

by

G.C. SINGHAI, P. ENG.

September 4, 1974

Department of Mines and Geoscience Resources ASSESSMENT REPORT NO. 4876 MAP

G. C. Singhai

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SUMMARY

The 8 mineral claims of Mr. Sandy Fennell and Mr. Marston Fennell of Barriere, B. C. are located on the Foghorn Mountain and about 4 miles south of Birch Island, in the Kamloops Mining Division, B. C. The property overlies the metamorphosed sediment of Permian age, which are equivalent to Monashee group of formations of Vernon map area. The Permian rock formations are composed of dark gray coloured chlorite, sericite schist. Granitic rock formation are exposed in the southern part of the area in the Granite Mountain. About 90 percent of the area is covered by glacial drift.

The mineralization of galena, sphalerite, argentite, chalcocopyrite, pyrite and occasionally pyrrhotite occurs in veins. These veins varies in dip and strike which suggests that there could be a system of veins.

The result of chip and grab sampling of underground and surface showing is encouraging, therefore further exploration work is warranted and a program to cost about \$20,845.00 has been recommended.

REPORT ON
FOGHORN MINERAL CLAIMS
FOGHORN MOUNTAIN AREA
KAMLOOPS MINING DIVISION, B.C.

for
SANDY FENNELL AND MARSTON FENNELL
of
BARRIERE, B.C.

INTRODUCTION

This report is on 8 mineral claims which are located on the Foghorn Mountain, and about 4 miles south of Birch Island, in the Kamloops Mining Division, B.C. It was prepared at the request of Mr. Sandy Fennell of Barriere, B.C. This report is based on the personal visit, preliminary geological mapping during the period of August 27, 1972 and August 4, 1973 and verbal information provided by Mr. S. Fennell. The author has referred to memoir 296 written by Mr. A.G. Jones of Geological Survey of Canada 1959 and a Geological map 48, of 1963 of Adams Lake prepared by G.S.C.

PROPERTY AND OWNERSHIP

The property consists of 8 mineral claims on the Foghorn Mountain and about 4 miles south of Birch Island, B.C. These claims are owned by Mr. Sandy Fennell of Barriere, B.C., and his brother, Mr. Marston Fennell of Chuchua, B.C. The mineral claims, recording numbers and date of expiry are as follows.

<u>Name of Claims</u>	<u>Record Nos.</u>	<u>Expiry date</u>
Fog Horn	43633 -	July 2, 1974
Fog Horn 1 - 5 incl.	43634 - 43638	July 2, 1974
Fog Horn 7 - 8	121779 - 121780	July 2, 1974

The claim posts of these mineral claims were examined by the writer during traverses and were found satisfactory and located in accordance with the Mineral Act of the Province of British Columbia.

LOCATION AND ACCESSIBILITY

The property is located on the Foghorn Mountain which is about 4 miles south of Birch Island and approximately 30 miles N.E. of Barriere in the Kamloops Mining Division, B.C. It is centred approximately 51 degrees 2 minutes and 52 seconds North Latitude and 119^o degrees 56 minutes 42 seconds West Longitude.

These claims are accessible by 41 miles of highway #5 from the town of Barriere up to Birch Island and thence 7 miles of logging road by four wheel drive vehicle. The main supply can be available from the town of Clearwater, Barriere or Birch Island.

There is a small lake close to the western edge of property which can provide enough water for exploration throughout the year.

TOPOGRAPHY, VEGETATION AND CLIMATE

The property is located at the top of the Foghorn Mountain which have gentle slopes towards North and South. The top is almost flat and elevation varies from 6,000 feet to about 6,100 feet in the area.

The area is covered with a rare growth of coniferous forest of fir and cedar, but most part of area has no trees at all.

The climate of the area is moderate and temperature varies from 50^oF below zero to 80^oF. Rainfall is sufficient to support vegetation. The snowfall is heavier than the lower elevations, but exploration can be carried out throughout the year.

PROGRAM

During author's visits the following program was undertaken:

1. A traverse was taken in order to study the general geology of the area.
2. Preliminary, surface and underground geological mapping was carried out.
3. Examination of underground and surface showing and their chip and grab sampling was carried out.

HISTORY AND PREVIOUS WORK

Mr. George Fennell, father of Mr. Sandy Fennell drove a adit of about 300' during the period of 1912 to 1923. He sunk a shaft at 200 feet from the portal on the surface which intersected the adit at 200'. Mr. Sandy Fennell informed the writer verbally that about three carloads of hand picked ore had been shipped to the smelter during the period of 1919 to 1923. His father made some money by the shipment of first two car loads but he lost by the third car load, therefore further shipment was stopped. In 1935 some exploration work was undertaken by trenching and sinking shaft at various places in the area as indicated on the map. They found some ore which can be seen on mine dumps but no shipment of ore is made. The portal of Adit #1 and 2 and shaft ore caved and it is dangerous to go inside them.

GENERAL GEOLOGY

The geological map 48, 1965 prepared by the Geological Survey of Canada, indicates that the area overlies the metamorphosed sediments

of Permian age, which are equivalent to the Monashee group of rocks of Vernon map area. These Permian rock formations consist of light gray coloured quartz, sericite talc schist with thin bands of chlorite sericite schist. These formations are striking $N10^{\circ}$ to $55^{\circ}E$ and dipping 30° to 40° Northwest.

The occurrence of quartz veins is noticed. Some of these quartz veins have the same altitude as schists, but others have different altitude. The thickness is also variable from 6 inches to 2 1/2 feet. These veins are mineralized with massive to semimassive sulphides.

GEOLOGY OF THE AREA

The property overlies the older formation of Permian age and glacial drift of Pleistocene and recent. About 90% of the area is covered by glacial drift.

The Permian formations are equivalent to the Monashee group of rocks of Vernon map area which is south of the Adams Lake map area. These rocks are highly metamorphosed sediments which consist of chlorite sericite schist with thin bands of sericite chlorite talc schist. The strike of these formations is variable from $N10^{\circ}E$ to $N55^{\circ}E$ with a variable dip of 30 to 36° . The variation in dip and strike may be local or due to folding. This requires detailed geological mapping of the area.

These formations are intruded by Jurassic formations of granite and granodiorite in the southern part of the area. The occurrence of granite is noticed in the Granite Mountain which is south of this area.

There are number of quartz veins occurring in the area which varies in thickness from 6 inches to 2 1/2 feet. The strike of these veins varies from NW to NE and dip from 35° to vertical. Some of these veins are mineralized by sulphides. The other quartz veins are barren and could be of secondary origin.

MINERALIZATION

In this area the mineralization occurs as a vein type of deposit with the mineral assemblage of quartz, galena, argentite, sphalerite, chalcopryrite, pyrite and pyrrhotite. But presence of other minerals such as chlorite, feldspar, sericite and mica is also noticed as alteration product. The variation of these quartz veins suggests that there may be a system of veins. Some of these veins are barren and of secondary origin.

The author could not notice any occurrence of quartz vein in adit because the portal and shaft are caved and walls are coated by dust. It is dangerous to go inside in these adits at present. Though the writer has noticed high grade ore on mine dumps of these adits and old workings.

SAMPLING

The writer had collected chip and grab samples from mineralized zones and mine dumps. Location of sampling is marked on map. The assay resumed as follows:

<u>Sample Number</u>	<u>Width</u>	<u>Pb%</u>	<u>Zn%</u>	<u>Cu%</u>	<u>Cd%</u>	<u>Au oz/ton</u>	<u>Ag oz/ton</u>
117	1 1/2'	.09	.39	.07	-	Tr.	.24
118	Grab	14.05	6.12	.21			4.50
119	Grab	2.50	24.95	.85		.04	7.30
115, 116) 121, 126)	Grab and Chip	3.59	9.56	.35		Tr.	1.82
7509	Grab	8.92	17.64	.92	.33	.004	9.52
7510	Grab	12.48	2.02	.25	-	.002	5.97

Sample number 115, 116, 121 and 126 mixed together and got it assayed.

CONCLUSIONS

- 1) The property which is discussed above is in a favourable geological structural environment.
- 2) The mineralization occurs in as massive to semimassive with quartz veins.
- 3) There may be a system of veins.
- 4) The assay results are encouraging and most of the area is covered by glacial drift. Therefore it is concluded that further exploration program should be undertaken.

RECOMMENDATIONS:

As a result of the above studies it is recommended that the following exploration program should be undertaken.

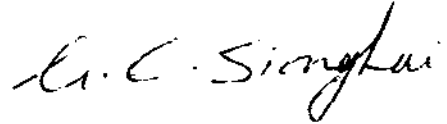
1. A Northeast-Southwest running baseline should be established in the present mineral showing area with gridlines perpendicular to the base line at an interval of 400 feet with each station of 100 feet apart along each line should be completed.
2. Geochemical soil samples should be collected at every station in the grided area and should be assayed for Pb, Zn, Ag.
3. Magnetic and E.M. (vertical loop) surveys should be conducted on the grided area.
4. Area should be geologically mapped in detail.

5. E.M. Geochemical and Magnetic anomalies should be tested by trenching, stripping and diamond drilling.
6. Underground old working should be rehabilitated.

Respectfully submitted

Dated at
562 Clearwater Drive,
Richmond, B. C.
September 4, 1973

G.C. Singhai, P. Eng.



ESTIMATED COST OF PROGRAM

1. 5 line miles of line cutting @ \$150.00 per line mile	\$ 750.00
2. Soil Sampling and analysis of 270 samples @ \$4.50 per sample	\$ 1,245.00
3. E.M. Survey for 5 line miles @ \$350.00 per line mile	\$ 1,750.00
4. Magnetic Survey for 5 line miles @ \$80.00 per line mile	\$ 400.00
5. Geological mapping and prospecting and aerial photography	\$ 1,000.00
6. Bulldozing and trenching	\$ 3,000.00
7. Rehabilitation of old underground workings	\$ 1,500.00
8. Diamond drilling 500 feet @ \$12.00 per foot	\$ 6,000.00
9. Assaying	\$ 700.00
10. Engineering and Supervision	<u>\$ 2,500.00</u>
	TOTAL \$18,845.00
Contingencies 10% or say	<u>2,000.00</u>
	NET TOTAL \$20,845.00

G.C. Singhai, P. Eng.

G.C. Singhai

C E R T I F I C A T I O N

I, Gyan Chand Singhai of 562 Clearwater Drive,
Richmond, B.C. do hereby certify that:

1. I am a member of the Association of Professional Engineers of British Columbia since 1969, and member of the Canadian Institute of Mining and Metallurgy.
2. I am a post-graduate in Applied Geology from the University of Saugor, Sagar, Madhya Pradesh, India and have been practising my profession since that time.
3. I was teaching in the University of Saugor, Sagar and Ravishankar University, Raipur in India and practised my profession in India, Canada, West Indies, Mexico and Peru.
4. This report is based as a result of a personal examination of the property made by me during the period of August 27, 1972 and August 4, 1973 and supplemented by verbal information provided by Mr. S. Fennell.
5. I have no interest either directly or indirectly in the property described herein or any other properties or in the securities of Sandy Fennell and Marston Fennell.
6. This report may be used for the purpose of a prospectus, if so desired.

Dated at
562 Clearwater Drive
Richmond, B.C.
September 4, 1973

G.C. Singhai, M. Tech., P. Eng.

G. C. Singhai



FOGHORN CLAIMS

Department of
 Mines and Petroleum Resources
 ASSESSMENT REPORT
 NO. **4876** #1

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1	6
7	8

G. C. Singhai

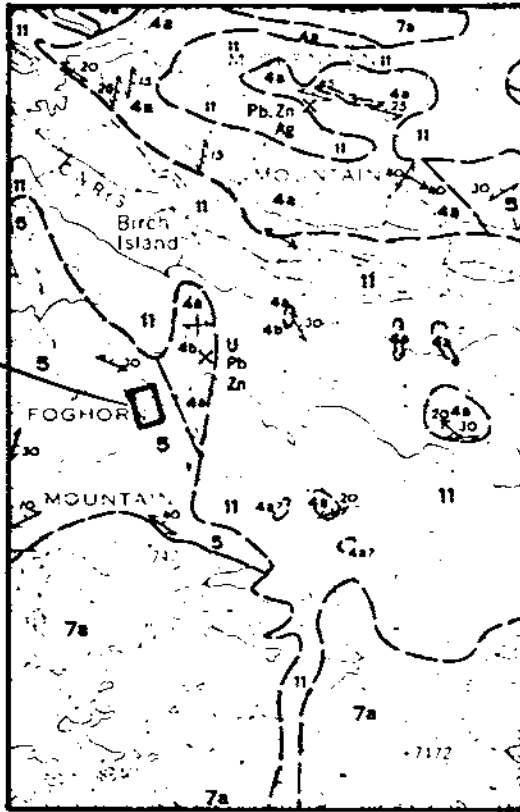
**FOGHORN MINERAL CLAIMS
 FOGHORN MOUNTAIN AREA
 KAMLOOPS MINING DIVISION, B.C.**

LOCATION & CLAIM MAP

SCALE 1" = 136 MILES



PROPERTY



LEGEND

- 11 Gravel deposits & recent alluvium
- 7a Biotite granodiorite & granite
- 5 Greenstone, greenschist, phyllite, limestone
- 4a Dark grey and brown phyllite, limestone
- 4b Trachytic tuff & breccia
- 3 Grey & buff weathering, marble & limestone
- Foliation
- Geological boundary

in the vicinity of
Mines and Mineral Resources

AMOUNT OF REPORT
NO. **4876** #2

FOGHORN MINERAL CLAIMS

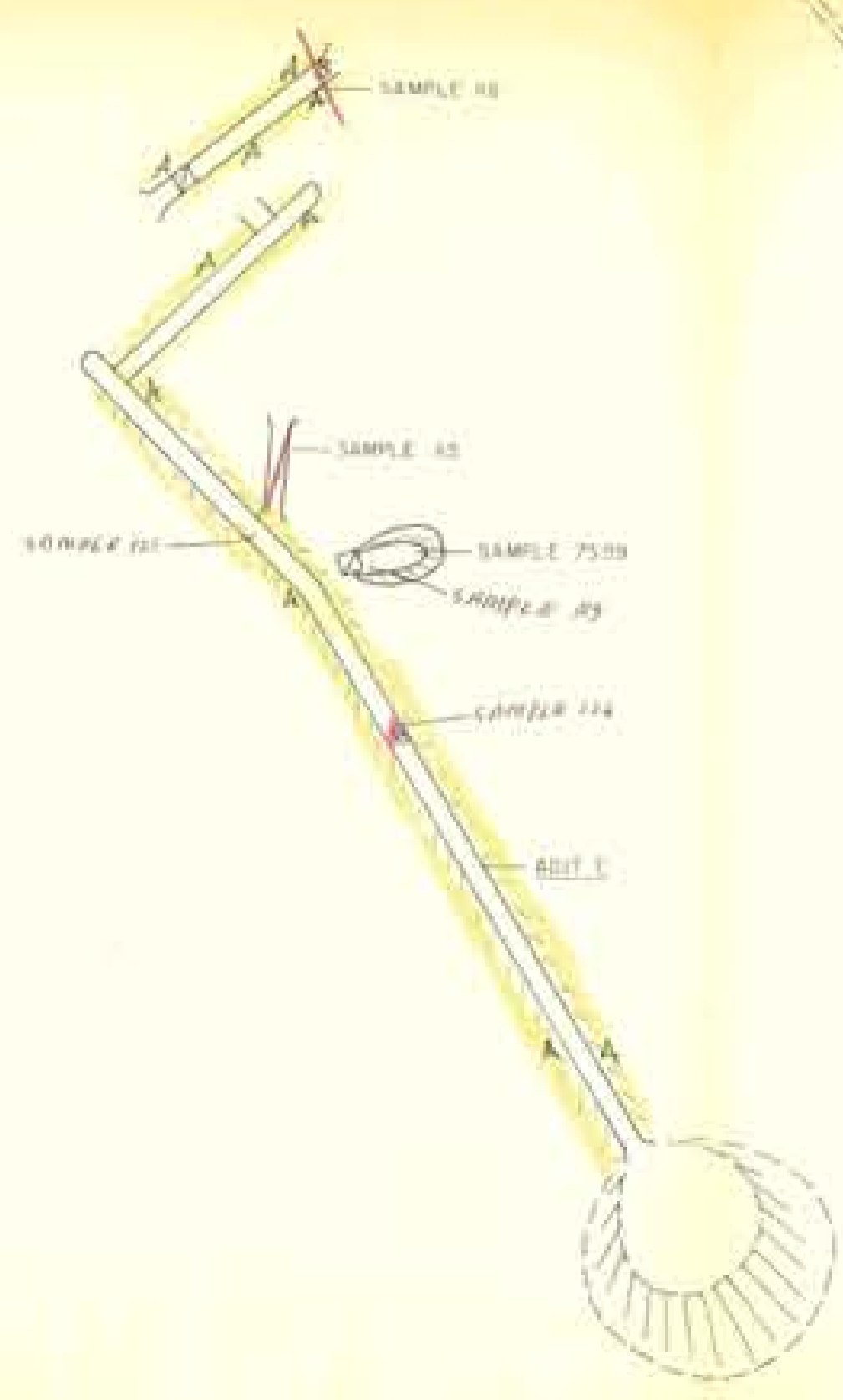
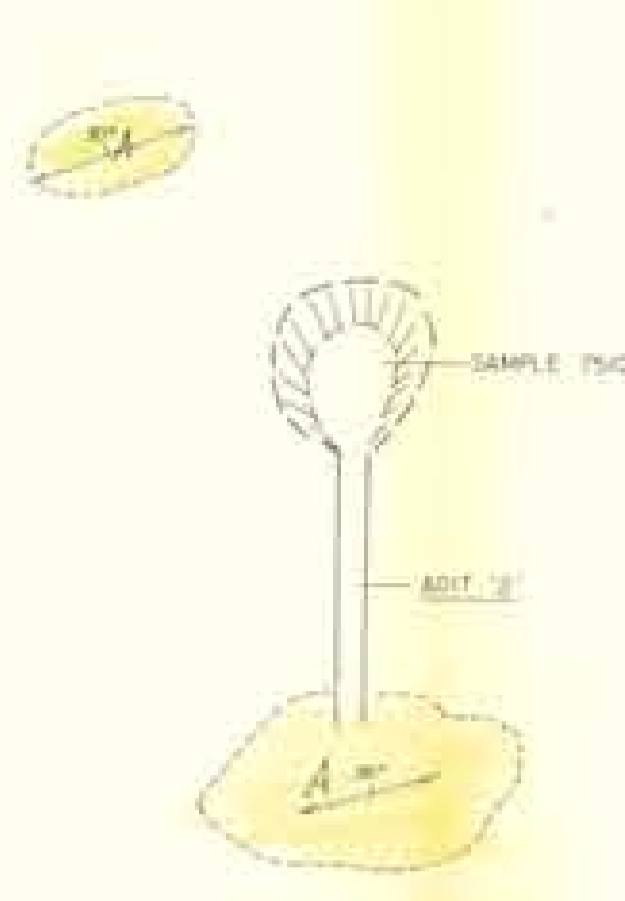
FOGHORN MOUNTAIN AREA

KAMLOOPS MINING DIVISION, B.C.

L. C. Singhai

REGIONAL GEOLOGY

SCALE 1" = 4 MILES



- LEGEND**
- PERMAN FORMATIONS
- Chert & Siliceous Shale
 - Q.Y. with Micaceous
 - Dip & Strike of Foliation
 - Trench
 - Adit
 - Shaft
 - Pit
 - Mine Dump
 - Outcrop
 - Road

Department of
 Mines and Technical Surveys
 Geological Survey of Canada
 NO 4876 #3

FOGHORN MINERAL CLAIMS
 FOGHORN MOUNTAIN AREA
 KAMLOOPS MINING DIVISION, B.C.
 PRELIMINARY GEOLOGY SHOWING OLD
 WORKINGS & LOCATION OF SAMPLES

L. C. Simpson SCALE 1" = 100 FEET

4876M3

