

PE-119-22

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REPORT ON THE POLYMETAL LODE
PRINCE OF WALES ISLAND, ALASKA

By

Howard M. Fowler
Associate Mining Engineer

Juneau, Alaska
January 10, 1949

TERRITORY OF ALASKA
DEPARTMENT OF MINES

SUMMARY

The Polymetal Lode, a zinc-lead prospect on the south arm of Chalmondeley Sound, Prince of Wales Island, Alaska, was staked in May, 1947, by George Roberts of Ketchikan, Alaska.

The ore zone is an impregnation of sediments with sulfides. Insufficient trenching has been done to delimit the orebody. However, the assays of the samples taken are encouraging and further work is warranted.

REPORT ON THE POLYMETAL LODGE
PRINCE OF WALES ISLAND, ALASKA

INTRODUCTION

The examination of the Polymetal Lode was conducted on June 13, 1948, at the request of George Roberts, present owner of the property. The examination was undertaken primarily to determine if further prospect work at the property is warranted. In conjunction with this, a Brunton compass-Paulin Altimeter survey was made and four samples cut.

LOCATION

The Polymetal Lode is located on the west side and about three miles from the entrance of the south arm of Chalmondeley Sound. Chalmondeley Sound is a deep embayment on the east coast of Prince of Wales Island. It is approximately 30 miles by air or 40 miles by water from Ketchikan, Alaska.

The present tunnel is about 750 feet from the beach at an elevation of 500 feet. It is located beneath a steep cliff and on the north side of a major slide area. It cannot be seen from the beach. There is no trail.

OWNERSHIP

The Polymetal Lode consists of one claim staked in May, 1947, by George Roberts of Ketchikan.

PHYSICAL FEATURES

The immediate area around the Polymetal Lode is extremely rugged. The mountains rise abruptly from the bay to over 3,000 feet in elevation. Numerous slide areas and steep cliffs can be seen. Timber line is at approximately the 1,500 feet contour. There is an adequate supply of timber immediately available for all camp and operational needs. Water is plentiful throughout the year. The area receives approximately 150 inches of precipitation a year in rain and snow. Deep water fronts on the property. Harbor facilities are fair.

GEOLOGY AND OREBODY

The bedrock formation in the immediate area of the Polymetal Lode consists essentially of alternating bands of greenstone, sericite schist, and lime-

stones. Locally, at the tunnel portal, they have a strike of N. 10° W. and a dip of 30° to the southwest. To the north, the area is invaded by large intrusive masses of diorite. The ore bodies in the area are probably genetically associated with these intrusives.

The Polymetal Lode on its one known outcrop is an impregnation of the enclosing sediments with sulfides. Locally, it has a vertical dip. The outcrop is on a steep mountainside at a recorded elevation of about 780 feet. About 40 feet to the south of the known ore exposure the structure disappears beneath a steep and wide slide area. Mineralization continues to the north for a known distance of about 100 feet.

The following samples were cut on the ore structure: (See accompanying map.)

<u>Sample Number</u>	<u>Width</u>	<u>Au-oz.</u>	<u>Ag-oz.</u>	<u>Pb-%</u>	<u>Zn-%</u>
HMF-12	10'	Nil	Trace	5.2	13.2
HMF-13	10'	Nil	Nil	1.1	9.05
HMF-14	20'	0.01	Nil	0.3	2.2
HMF-15	Grab	0.01	0.50	3.1	21.1

(Assayed at Ketchikan Assay Office)

Samples HMF-12, 13, and 14 were chip samples cut across the structure. Sample HMF-15 was a grab sample. Samples HMF-12 and 13 are adjacent samples cut over a 20 foot section of the ore structure. HMF-12 was cut over 10 feet on the east side of the ore structure. HMF-13 was cut over 10 feet on the west side. Thirty feet to the north of samples 12 and 13, sample 14 was cut over a 20 foot width. Sample 15 was a grab sample over a 20 foot width taken 30 feet north of Sample 14.

DEVELOPMENT

The Polymetal Lode has received no development work in recent years. There has been no trenching on the ore structure or work in the tunnel by the present owner. Previous owners have started a 5' x 6.5' cross-cut tunnel (strike: S. 72° W.) at an elevation of 500 feet. Paced distances showed the tunnel to be approximately 294 feet in length. 94 feet from the tunnel face a 20-foot X-cut has been driven from the tunnel, to the south. No ore was exposed in either the X-cut or in the tunnel. According to the present survey, the tunnel requires approximately 200 feet more advance before it can cut the ore structure. However, the Paulin Altimeter used on this survey was not in good adjustment and it therefore follows that the survey was probably inaccurate.

RECOMMENDATIONS AND CONCLUSIONS

There has been an insufficient amount of work done in tracing extensions of the ore structure on the surface. It is recommended that immediate work be confined to trenching in order to expose the surface limits of the ore body. Present assays are encouraging. After additional work is done and the ore structures further delimited, a re-survey and a more extensive sampling program should be recommended.

Respectfully submitted,

HOWARD M. FOWLER
Associate Mining Engineer

January 21, 1949

Mr. George Roberts
P. O. Box 238
Ketchikan, Alaska

Dear Mr. Roberts,

Referring to your letter to me dated November 20, 1948, to which reply was made by our chief clerk under date of November 25th, there is enclosed herewith a copy of the report on your mining property that had been prepared by Howard M. Fowler, associate mining-engineer, and which you requested.

Additional copies of the report and of the maps that accompany it may be had on application.

Unavoidable circumstances have delayed the preparation of the report longer than expected. However, it is hoped that it will still be found useful in enabling you to arrange the plans for the development of the property, that are mentioned in your letter.

Very truly yours,

B. D. Stewart
Commissioner of Mines

BDS: jkp
encl.

(21.6, 4.0)

55° 13' N
132° 20' W

Jan. 25, 1949

DEPARTMENT OF MINES
RECEIVED
JAN 28 1949
JUNEAU, ALASKA

B. D. Stewart
Commissioner of Mines
Juneau, Alaska.

119-21

Dear Sir:

The report on his examination of my mining property prepared by Mr. Howard Fowler of your Department has been received and I wish to express my very real appreciation for it.

The clarity with which pertinent data is shown by the accompanying map is especially gratifying.

To you, to Mr. Fowler and all in your Department, my thanks for this service. I can think of no better project within the scope of your organization than in thus helping claim owners to present the merits of their properties against a background of the unbiased findings and recommendations of your engineers.

Very truly yours

George E. Roberts
George E. Roberts

Box 233
Ketchikan, Alaska.

NOTED

JAN 28 1949

B. D. STEWART
Commissioner of Mines

November 23, 1948.

Mr. George Roberts
P. O. Box 238
Ketchikan, Alaska.

Dear Mr. Roberts:

Your letter to Mr. B. D. Stewart of November 20, with reference to a report by Mr. Fowler on your "Polymetal" claim on Chomly Sound, has arrived while Mr. Stewart is along the Railroad belt. Your letter is therefore being forwarded to him in care of Mr. Fowler who is temporarily in charge of the Anchorage office. The assayer and engineer, formerly in charge of the Anchorage office, left the employ of the Department of Mines last month and it was necessary for Mr. Stewart to temporarily assign Mr. Fowler to that office until a qualified man could be secured for the position.

I am quite sure that Mr. Stewart will be pleased to have Mr. Fowler prepare and forward to you a report on your property just as soon as possible. Perhaps Mr. Fowler can prepare such a report while at Anchorage, should the date of his return to the Juneau office be further delayed.

Very truly yours,

R. L. STEWART,
Clerk.

cc. Mr. Stewart c/o Fowler, Anchorage.

C
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P
Y

Nov. 20, 1948

B. D. Stewart
Territorial Commissioner of Mines
Juneau, Alaska

Dear Sir:

A mining claim of mine, located on the South Arm of Chomly Sound, Prince of Wales Island, was examined and mapped during June of this year.

Mr. Howard Fowler was the examiner and I understand thoroughly that his notes pertaining to the property would not be written up and the surveys plotted until late this year under normal routine of your office.

It so happens, however, that immediate receipt of his report might be of assistance to me in my efforts to get some development started, so I am sending you this letter, asking that this report be expedited if possible.

Claim name "POLYMETAL"

Claim owner, George Roberts

Any help you can give me in this matter will be much appreciated.

Yours resp.

/s/ GEORGE ROBERTS

Box 238
Ketchikan, Alaska

George Roberts