

SILVER-LEAD ORES IN THE RUBY DISTRICT, ALASKA

LOCATION

There are two occurrences of silver-lead ore noted in the Ruby District. The only production came from the Galena Mine, twenty miles south of the Yukon River from the town of Galena. Access to the mine is difficult in summer due to the marshy condition of the trail. The Galena Mine was formerly owned by Mr. Sam Kincaid who is now Deputy U. S. Marshall at Flat. Mr. Kincaid has given title to the property to Mr. Edgar Nollner, of Galena, for his sons.

A prospect known as the Fourteen Mine is located near the Fourteen Mile Roadhouse on the Ruby-Long road and one mile from the road. The workings at this prospect, as well as the Galena Mine, are inaccessible at the present time. The Fourteen prospect has been described in Bulletin 783-D, U. S. G. S., "Silver-Lead Prospects Near Ruby," by John S. Brown, pp. 145-150, 1926. The property is owned by Mr. Harry Boland, associated with Mr. Alfred Hendrickson and Mr. Alfred McFadden.

Surface prospecting and examination of both properties is difficult on account of the deep overburden and the lack of outcrops. The location and consequent transportation problem retards the development of and prospecting for lode veins.

GALENA MINE

The Galena Mine has produced 250 tons of silver-lead ore; 130 tons was shipped to Selby in 1921, the remainder was shipped to Bradley, Idaho, in 1922. Mr. Kincaid reports that the shipments averaged 73 per cent lead, and 104 oz. per ton silver. The high freight rate made the operation unprofitable. Transportation of ore from the mine to the Yukon River is impossible in summer. The ore was mined and stored in summer and taken by sled to Galena in winter. The cost of transportation from the mine to Galena was \$30 per ton. A Canadian steamer took the ore from Galena to St. Michael for \$22.50 per ton. The rate from St. Michael to Seattle was \$5 per ton and from Seattle to Bradley \$5 per ton. The total freight rate from the mine to the Bradley smelter was \$62.50 per ton.

The ore lies in a schist belt near a limestone contact. The outcrops are not visible. The workings consisted of an opencut which is now caved and inaccessible. The ore was contained in a lens that paralleled the schist. All of the visible ore was removed. The mineralization consisted mostly of galena with some pyrite, and cerrusite. Assays showed the ore to contain a trace of gold. The accompanying photographs show the hauling of the ore to Galena during winter.

FOURTEEN PROSPECT

As the workings were inaccessible, little can be added to the report of Mr. Brown. The following notes may be of interest. Claims held are the Exchange, Extension, Comet, and Meteor. Mr. Hendrickson is the locator of the Exchange, the other claims were located by Messrs. Boland and McFadden in 1920.

The country rock is schist. The minerals are galena, cerrusite, and limonite in a crushed country rock gangue with included angular fragments of quartz.

A grab sample was taken from the dump near the shaft, and assayed by Mr. Hopkins at Fairbanks. The sample contained galena and cerrusite. Gold...trace. Silver...1.20 oz. per ton. Lead...8.67%.

The attached assay returns are samples submitted to Mr. Hopkins, and others, by Mr. Boland.

CONCLUSION

Future exploration may discover bodies of silver-lead ore, in the Ruby district, of sufficient size to warrant exploration. The problem will then be one of transportation. Such exploration along the trend of the mineralization is warranted.

ASSAYED JUNE - AUGUST, 1922

Description of sample	Assayed by	Gold oz. per ton	Silver per ton	Lead %
1. Tunnel Meteor Claim, band about 12" wide.	Hopkins	tr.	12.80	55.60
2. Do.	"	tr.	19.10	63.10
3. Same as No. 1	Colorado	tr.	13.2	49.3
4. Same as No. 2	"	tr.	17.3	53.5
5. Same as No. 1) thought) incorrect	Sparks Fairbanks	5.42	13.28	54.50
6. Same as No. 2)	"	6.72	212.76	15.2
7. Quartz, galena, chalcop- pyrite, cerrusite	Hopkins	tr.	3.90	-----
8. " " "	"	1.76	4.20	----- Cu-1.66
9. " " "	"	tr.	1.80	-----
10. Sample taken 1920. Stringer on top near tunnel 5' from surface	"	tr.	26.9	45.5 Bi-0.5%
11. Tunnel cerrusite sample	Colorado	tr.	73.36	66.7 Cu-tr. Zn-0.25% Fe-5.7% CaCO ₃ -0.1% Insoluble-2.0% S-4.2%
12. Tunnel	Colorado	tr.	8.2	-----
13. "	"	tr.	2.28	-----

INDEX

Location	1
Galena Mine . K. 55-1	1
Fourteen Prospect K. 56-22	2
Conclusion	3
Assay Report - August 22	4
Photographs	

PHOTOGRAPHS

(To accompany note on the silver-lead ores.
in the Ruby district.)



Galena Mine,

Transportating ore in winter to Galena, on
the Yukon River.

Ore sled and camp, front view.

PHOTOGRAPHS

(To accompany note on the silver-lead ores.
in the Ruby district.)

11/15



Galena Mine

Galena Mine.

Open-cuts. Winter topography.

Galena, Yukon River, Alaska.



Transporting ore from the Galena Mine to the Yon.
River in winter.

Galena Mine.

Cabins at Galena Mine, (Now burned).



Transporting ore from the Galena Mine to the
Yukon River.

Transportating ore in winter from the Galena
Mine to the Yukon River.

Ore sled and camp, Galena, Alaska.
Back view.

