PRELIMINARY RECONNAISSANCE REPORT

FILE II-3-8

29. General Investigations:

5. O. H. McConnal, Mining & Scientific Press, Vol. 101, June 1, 8, 13, 1912.
6. On Lead, Zinc and Silver in the Cour d'Alene.
8. On the Distribution of Cu in the Cour d'Alene; O. H. Hershey

9. Nickel-Ore Deposits in Copper Precipitates; R. H. McConnell


11. Geology & Mineralization of the Lead-Silver Ores of the


SUPPLEMENT TO PRELIMINARY RECONNAISSANCE REPORT

EXAMINED BY: D. L. Hedlund and J. Barlow

DATE(S) OF THIS EXAMINATION: February 13, 1956

SUPPLEMENT NO. 1

DATE OF THIS REPORT: February 11, 1956

DATE OF PREVIOUS REPORT: January 7, 1953

1. SAMPLE DATA

<table>
<thead>
<tr>
<th>SAMPLE</th>
<th>radiometric</th>
<th>chemical</th>
<th>other elements</th>
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<tr>
<td>Bunker Hill</td>
<td>0.1h</td>
<td></td>
<td>Radiassayer</td>
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<tr>
<td>B.H. b220</td>
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<td>B.H. k221</td>
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2. STATE: Idaho  COUNTY: Shoshone

DISTRICT: Troyer

NEAREST TOWN: Kellogg, Idaho

PROPERTY: Bunker Hill Mine

LOCATION: Sec. 11, T. 5N, R. 2E


ADDRESS: Kellogg, Idaho

4. ADDITIONAL INFORMATION ON MINERALOGY, RADIOACTIVITY, GEOLOGY, MINING, ETC.

Since the previous investigation considerable exploration has been completed on the 1900 level. This exploration is along the Cate fault which has a general North trend and dips steeply to the West. Locally the fault has an East-West trend and dips to the South.

A Northwest drift along the footwall of the Cate fault had to be abandoned because of caving and heavy ground. A x-out was then driven westward from a parallel drift which intersected the Cate fault 30' N. of the caved face. Drifting was then continued to the North along the hanging wall side of the fault, and it was in this area that significant radioactivity was encountered. Heavy ground has again been encountered and the operators are spilling but the drift may again have to be abandoned. Uraninite occurs as blate and small veinlets in the metasalt of the Revet or St. Regis member of the Belt series (Precambrian). Other minerals present are pyrite, galena, tetrahedrite and chalcocite in a siderite and quartz ganger. The orebody appears to be approximately 10' wide and goes off into the west wall at an acute angle into the drift. The exposed length of the radioactive zone is about 50'. The entire zone is orbilled and prevented thorough sampling and evaluation of the same.

The previously caved face which was abandoned 30' to the South was then checked and indicated 3 times background. A select sample from this rush pile tested by a radiassayer at the Bunker Hill mill assayed 0.1h 4 su/g.

R.O. 0.03 HR/HR

Precision III Scintillator

Average in radioactive zone = 1.2 HR/HR

Maximum = 3.0 HR/HR