

FILE HI-B-7

PRELIMINARY RECONNAISSANCE REPORT

EXAMINED BY H. W. Norman
DATE(S) EXAMINED 12/23/52 and 1/6/53

2. STATE Idaho COUNTY Shoshone
DISTRICT Traka

1. SAMPLES

| NUMBER | TYPE AND WIDTH | RADIOACTIVITY | |
|--------|---|------------------|------------------|
| | | ^{238}U | ^{235}U |
| F8401 | 5.0 feet sampled along 1.0 zone of fissure filling. | 0.633 | 0.600 |

NEAREST TOWN Kellogg, Idaho
Big Creek #4 Tunnel
PROPERTY Hooper Tunnel
Crescent Mine

LOCATION:
SEC. 16, 17 T. 18 N R. 3 E

3. TYPE OF EXAMINATION:
Radiometric and geologic underground,
Halross Scintillometer Model 939, and
El-tronics Model SM-3.

4. DIRECTIONS TO DEPOSIT:
East from Kellogg on U.S. 10 to Big Creek road, south to Sunshine Mine parking lot.
Turn sharply right and proceed northwesterly for approximately 1/4 mile.
5. OWNER OR OPERATOR: Bunker Hill & Sullivan Mining & Concentrating Co.
ADDRESS: Kellogg, Idaho
6. MINE OR PROPERTY HISTORY, PRODUCTION AND WORKINGS:
Mine abandoned in 1942. Bunker Hill & Sullivan recently opened up part of the
tunnel level and have plans for unwatering the shaft.
7. RADIOACTIVITY:
Hooper Tunnel: Background at portal - 25; background in crosscut - 30-60.
High reading - 2000 counts per second (sampled)
Big Creek #4 Tunnel: Background at portal - plus-minus 30; readings in tunnel 30-40 aver.
High reading - 60 counts per second.
8. DESCRIPTION OF DEPOSIT (*Discuss under: A. Topography, B. Geology, C. Mineralogy*)
- A. Portal is on east side of wooded N-S-trending ridge in Coeur d'Alene Mountains.
- B. Appears to be a narrow fissure filling in the St. Regis member of the Belt Series quartzites. Considerable post-mining alteration has resulted in oxide coatings concealing much of the drift wall.
- C. Pitchblende or uraninite occurs in a silicified, jasperoid quartzite. On fracture and fissure surfaces secondary mineralization is evident; probably torbernite or meta-torbernite, gummite or uranophane.



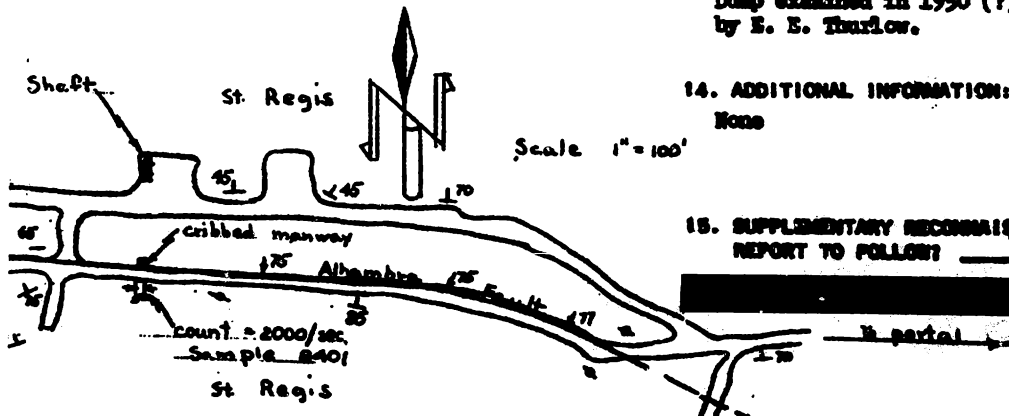
11. PROOF OF OWNERSHIP RECEIVED? No
PERMISSION TO PUBLISH RECEIVED? No

13. OTHER INVESTIGATIONS;
Dump examined in 1950 (?)
by E. E. Thurlow.

14. ADDITIONAL INFORMATION:
None

15. SUPPLEMENTARY RECONNAISSANCE
REPORT TO FOLLOW? Yes

12. MAP:



2623 a

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~~SUPPLEMENT TO PRELIMINARY RECONNAISSANCE REPORT~~

EXAMINED BY: D. L. Hatland
DATE(S) OF THIS EXAMINATION: Feb. 10, 1956

SUPPLEMENT NO. one
DATE OF THIS REPORT: March 9, 1956
DATE OF PREVIOUS REPORT: _____

I. SAMPLE DATA

| NUMBER | ASSAY (% U_3O_8) | | OTHER ELEMENTS CHEMICAL |
|--------|---------------------|----------|----------------------------|
| | RADIOMETRIC | CHEMICAL | |
| 225 | .123 | 0.115 | |
| 226 | .106 | - | |

2. STATE Idaho COUNTY Shoshone

DISTRICT Yreka (Coeur d'Alene)

NEAREST TOWN Kellogg

PROPERTY Crescent Mine

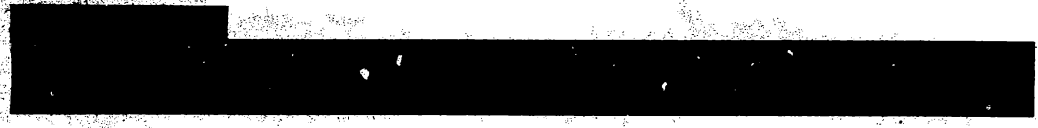
LOCATION:
SEC. 16, 17 T. 18N R. 3E

3. OWNER OR OPERATOR: Bunker Hill & Sullivan Mining and Concentrating Co.
ADDRESS: Kellogg, Idaho

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

Since the previous investigation the operators have sunk a shaft to the 3100 level and have completed roughly 6,000' of crosscutting and drifting with DMEA participation. A crosscut from the shaft on the 3100 level intersected the main vein about 2250' to the S. W. Only slight radioactivity was noted at this intersection and along the vein for 2400'. A better zone was noted for the next 350' with lenses of higher grade material occurring at irregular intervals.

The zones are typical of the Coeur d'Alene district with minor quantities of uraninite occurring in lenses, closely associated with hematite-stained quartz, pyrite, minor tetrahedrite, chalcopyrite and galena. They are confined to the footwall of the main tetrahedrite vein and occur as filling along minor bedding slips and fractures. These zones vary in thickness from a fraction of an inch up to 2' and can be traced individually along the drift for about 30'. The radioactivity along these lenses is quite uniform and averages from 8 to 10 times background.



7. TO BE FOLLOWED BY:

ADDITIONAL SUPPLEMENTARY REPORT _____; MEMORANDUM REPORT _____; SOUND REPORT _____

8. THIS IS FINAL REPORT _____

FILE: NI-B-7

SUPPLEMENT TO PRELIMINARY RECONNAISSANCE REPORT

EXAMINED BY: D. L. Hetland, C. Van Alstine
 DATE(S) OF THIS EXAMINATION: February 26, 1957

SUPPLEMENT NO. two
 DATE OF THIS REPORT: February 28, 1957
 DATE OF PREVIOUS REPORT: March 9, 1956

1. SAMPLE DATA

| NUMBER | ASSAY ^{238}U | | OTHER ELEMENTS |
|--------|------------------------|----------|----------------|
| | RADIOMETRIC | CHEMICAL | CHEMICAL |
| | | | |

2. STATE Idaho COUNTY ShoshoneDISTRICT Yreka (Coeur d'Alene)NEAREST TOWN KelloggPROPERTY Crescent mine

LOCATION:
 SEC. 16, 17 T. 48 N. R. 3 E.

3. OWNER OR OPERATOR: Bunker Hill Mining Co.
 ADDRESS: Kellogg, Idaho

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

No extensions of the known uraniferous zones on the 3100 level were noted during examination of the approximately 2800 feet of workings completed since March 1956. (The workings examined are indicated in blue on the attached map.) The DMEA contract on the property has been completed. Present work by the Bunker Hill Mining Company on this level includes diamond drilling and a three-compartment inclined raise. Company geologists reported that no anomalous radioactivity has been encountered in the diamond-drill core.

7. TO BE FOLLOWED BY:

ADDITIONAL SUPPLEMENTARY REPORT x: MEMORANDUM REPORT : BOUND REPORT

8. THIS IS FINAL REPORT: No