Preliminary Reconnaissance Report

Examined by: E. V. Humes
Date(s) Examined: January 29, 1953

1. Samples
   Number: 100
   Type and Weight: 200 grams
   Radioactivity: None

2. State: Idaho
   County: Bannock
   District: Eddy
   Nearest Town: Barlow, Idaho
   Property: Star Mine

Location:
   Sec: 20, T. 35 N., R. 5 E.

3. Type of Examination:
   Underground radiometric and geologic.
   Instruments: Halvon Model 229 Scintillation and Nuclear 107 Professional Geiger Counter.

4. Directions to Deposit:
   Mine is reached through the Beula Shaft which is located in the town of Beula.

5. Owner or Operator: Sullivan Mining Company
   Address: P.O. Box 320
   Wallace, Idaho

6. Mine or Property History: Production and Workings:
   The Beula Cross which gives access to the Star Mine from the Beula shaft was begun in 1921 and completed in 1924. Mining of the Star Ore Body was commenced thereafter. Production is approximately 1,000 tons per day of approximately 15% combined mine-product. The mine is being worked over a vertical distance of about 600 feet, although much of the ground is mined out.

    Negative. Average background - 30 counts per second.
    Range - 15 - 30 counts per second.

7. Description of Deposit (Discuss under: A. Topography. B. Geology. C. Mineralogy)
   A. The mine is located approximately midway between Beuch and Mullen in a rough walled are of the Clear Diabase Mountains.
   B. Mine-product ore occurs in a narrow steeply dipping fissure filling in Breccia and Mt. Regional formations. Vugular parallel wall veins are common.
    C. Sphalerite and galena ore the ore minerals occurring in about a 1:1 ratio, respectively. A very small amount of silver occurs with the galena. Pyrite, marcasite, jasperite, and molybdenite ore common gangue constituents, definite in a common constituent of the wall rock.

8. Proof of Ownership, Notice to: Permission to publish received:

9. Survey:
   Date: January 20, 1953
   Surveyor: E. V. Humes

10. Photograph of Owner(s) Received:
    Permission to publish received:

11. Other Investigations:
    None

12. Multiuse Intended:
    The mine is being worked for copper to the 600 foot level in 1953.

13. Survey Information:
    The ore body has 500,000 tons of ore to the 600 level.

14. Geologic Information:
    None

15. Mineral Information:
    None