

U. S. GEOLOGICAL SURVEY
PRELIMINARY RECONNAISSANCE REPORT

EXAMINED BY A. E. Trites, E. W. Tooker
 DATES EXAMINED August 8, 1950

2. STATE Idaho COUNTY Lemhi

DISTRICT North Fork area

NEAREST TOWN North Fork

PROPERTY Smith claim

LOCATION:
 SEC. 33 T. 24 N. R. 20 E.

1. SAMPLES

NUMBER	TYPE AND WIDTH	RADIOACTIVITY

3. TYPE OF EXAMINATION: Radiometric
 reconnaissance along outcrop; no
 detailed geologic mapping

4. DIRECTIONS TO DEPOSIT: 3 miles west of North Fork, Idaho

5. OWNER OR OPERATOR: A. S. Smith
 ADDRESS: Box 106
North Fork, Idaho

6. MINE OR PROPERTY HISTORY, PRODUCTION AND WORKINGS: No development work

7. RADIOACTIVITY:

8. DESCRIPTION OF DEPOSIT (Discuss under: A. Topography, B. Geology, C. Mineralogy)

Pyrite, chalcopyrite and pyrrhotite occur in the contact zone 300 to 400 feet long, averaging 12 feet wide of altered gneiss and discontinuous quartz lenses or veins, as well as disseminated in the adjacent basic igneous rock. Gneiss wall rock is coarse grained, gray, porphyroblastic and contains biotite-quartz-feldspar; igneous wall rock is fine grained. Radioactive material of $3\frac{1}{2}$ times background was found near top of ridge near northern end of zone.

11. PROOF OF OWNERSHIP RECEIVED?
 PERMISSION TO PUBLISH RECEIVED?

12. MAP:

13. OTHER INVESTIGATIONS:
U. S. Forest Service map of Salmon
National Forest

14. ADDITIONAL INFORMATION:

15. SUPPLEMENTARY RECONNAISSANCE
 REPORT TO FOLLOW _____