

U. S. DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

USGS-PRR NO. M 900

TRACE ELEMENTS PRELIMINARY RECONNAISSANCE REPORT

DATE: September 27, 1953

EXAMINED BY: F. C. Armstrong and P. L. Weis

STATE: Idaho

DATE EXAMINED: September 18, 1953

COUNTY: Lemhi

DISTRICT: _____

- 1. NAME OF PROPERTY: Radiant claims 1 - 9 SEC. 26, 35 T. 24 N. R. 20 E.
- 2. DIRECTIONS TO PROPERTY: From Northfork, Idaho, travel west along Salmon River for approx. 4.2 miles, to the mouth of Buster Gulch to the north. Claims extend northwest from that point.
- 3. OWNER OR LESSEE: Kenneth White
ADDRESS: Sweet Home, Oregon
- 4. PUBLISHED REFERENCES: None.

5. MINE WORKING: None.

6. TYPE OF EXAMINATION: Reconnaissance for radioactivity.

- 7. RADIOACTIVE DEPOSIT: TYPE AND AGE: Pegmatite; monasite in schist.
- WALL ROCKS: Mica schists, granite gneiss. Radioactivity also associated with aplite dike.
- ORE MINERALS, PRIMARY: Monasite(?), Columbitum-bearing rutile (?).
Unidentified dark, radioactive crystals in pegmatites.
- ORE MINERALS, SECONDARY: None.

GANGUE MINERALS: Feldspar, quartz, micas.

ONE-GANGUE RELATIONSHIP: Dark crystals are in pink feldspar along footwall of small pegmatite.
Rutile and monasite are parallel to schistosity in quartz-mica schists and feldspar gneisses.
 ATTITUDE: Schist foliation strikes N.5-35°E, dip 60°W. Aplite ^{SHAPE} Lens-shaped (?).
~~Strike-slip fault strikes N.35°W, dips 70°E.~~
Pegmatite strikes N.55°E, dips 75-80°W. Pegmatite is 8 ft wide, ~~unknown~~ length.

- 8. COUNTER TYPE: "Scintillator" Model III Scintillometer.
- BACKGROUND READING: 7-10 on .05 scale.
- AVERAGE READING FOR DEPOSIT: Maximum reading 20 on 5 scale.

9. SAMPLE INFORMATION

SAMPLE NO.	LOT NO.	TYPE AND MATERIAL SAMPLED	GM	-ORNL-ABRAN- COUNT %eU	LEADER
W-102A		2 1/2-ft channel--in granite gneiss.		.181 eU	
W-103A		Bed sone in gneiss.		.032 eU	
W-104A		Schist with max. counter reading.		.305 eU	
W-105A		Pink feldspar and dark radioactive crystals.		.35 eU	
W-106A		Aplite.		.003 eU	

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10. UNPUBLISHED REFERENCES: None.

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