U.S. DEPARTMENT OF THE INTERIOR
GEOPHYSICAL SURVEY

TRACE ELEMENTS PRELIMINARY RECONNAISSANCE REPORT

EXAMINED BY: Paul L. Weis, U.S.G.S., Clair Johnson, Lessee

DATE EXAMINED: June 3, 1955

STATE: Idaho
COUNTY: Idaho City
DISTRICT: Elk City

1. NAME OF PROPERTY: Unknown
   SEC. 2, 11, 12, T. 29 N., R. 8 E.

2. DIRECTIONS TO PROPERTY: Placer ground is along American River for 6 miles beginning at bridge road 1/2 miles NE of Elk City and extending downstream.

3. OWNER OR LESSEE: Clair Johnson
   Elk City, Idaho


5. NOTE HIGHLIGHTED: None

6. TYPE OF EXAMINATION: Reconnaissance for radioactivity.

7. RADIOACTIVE DEPOSITS: Yes, Type and Age: Placer; Pleistocene to Recent (?).
     WALL ROCKS:
     ONE MINERAL: Brannerite
     TWO MINERALS: None
     SERIES MINERAL: Quartz, etc.

     GENERAL RELATIONSHIP: Brannerite occurs as crystal fragments up to one-half inch in diameter in placer gravels.

     ATTACHMENT:
     LENGTH (HORIZONTAL): About 6 miles.
     WIDTH (VERTICAL): 1/8 mi.
     THICKNESS: Max. 20 ft.?

8. MINE TYPE: FRI Model III "Scintillator"

9. SAMPLE INFORMATION:

<table>
<thead>
<tr>
<th>SAMPLE NO.</th>
<th>LOT NO.</th>
<th>TYPE AND MATERIAL</th>
<th>% (PERCENT)</th>
<th>LOCATION</th>
</tr>
</thead>
<tbody>
<tr>
<td>AA(2)</td>
<td></td>
<td>Dredge apron</td>
<td>0.026; 0.064</td>
<td>Collected from material on dredge.</td>
</tr>
<tr>
<td>A(2)</td>
<td></td>
<td>Dredge riffles</td>
<td>0.050; 0.086</td>
<td></td>
</tr>
<tr>
<td>B</td>
<td></td>
<td>Wastes</td>
<td>&lt;0.01</td>
<td></td>
</tr>
<tr>
<td>C</td>
<td></td>
<td>Retained on jigs</td>
<td>4.3</td>
<td></td>
</tr>
<tr>
<td>D</td>
<td></td>
<td>Jig overflow</td>
<td>0.0152</td>
<td></td>
</tr>
<tr>
<td>E</td>
<td></td>
<td>Jig underflow</td>
<td>0.14</td>
<td></td>
</tr>
</tbody>
</table>

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11. REPORT OF ENGINEERING INVESTIGATION: No

12. SUPPLEMENTARY REPORT TO FOLLOW: Yes