REPORT OF FACTUAL DATA OBTAINED DURING EXAMINATION
OF COPPER KING SHAFT, BLACK HAWK CLAIM NO. 1,
LARIMER COUNTY, COLORADO

by

Harry C. Granger and Robert U. King
May 1950

TRACE ELEMENTS MEMORANDUM REPORT 128
AEC-582/0

Dr. Phillip L. Merritt, Assistant Manager
Fuel Materials Operations
U. S. Atomic Energy Commission
P. O. Box 30, Ansonia Station
New York 23, New York

Dear Phil:

Transmitted herewith are 5 copies of Trace Elements Memorandum Report 128, "Report of factual data obtained during examination of Copper King Shaft, Black-Hawk claim no. 1, Larimer County, Colorado", by Harry C. Granger and Robert U. King, May 1950.

This report is designed to provide the owners with the factual data obtained from their property in accordance with our Agreement for Mineral Exploration with them. Copies of this report have been furnished to Mr. Arthur H. Brown and Mr. Harold G. Iseert at Livermore, Colorado.

A more complete report on this property will be transmitted at a later date.

Other copies of this report are being distributed as shown on the attached distribution sheet.

Sincerely yours,

H. M. Bannerman

W. H. Bradley
Chief Geologist

Enclosures 5
REPORT OF FACTUAL DATA OBTAINED DURING EXAMINATION OF COPPER KING SHAFT,
BLACK HAWK CLAIM NO. 1, LAKE COUNTY, COLORADO

by

Harry C. Granger and Robert U. King

May 1950
The distribution of this report is as follows:

2 copies ....................... AEC, Washington (J. C. Johnson)
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13 copies ..................... U. S. Geological Survey
1 copy .......................... Mr. Arthur R. Brown, Livermore, Colo.
1 copy .......................... Mr. Harold G. Issart, Huntington Park, Calif.
In September and October 1949 the Geological Survey dewatered and sampled the mine workings of Copper King shaft in the Black Hawk claim No. 1, Sec. 8, T. 10 N., R. 72 W., Larimer County, Colorado. The results of chemical analyses of samples taken on the 60-foot level are given on the attached assay plan.

In addition to sampling the 60-foot level, miscellaneous samples were collected of water and dump materials. The results of chemical analyses of these samples are listed below:

<table>
<thead>
<tr>
<th>Sample number</th>
<th>Description of sample and analyses</th>
</tr>
</thead>
<tbody>
<tr>
<td>17907</td>
<td>Grab of fines from dump surrounding Copper King shaft: 0.306 percent $U_3O_8$.</td>
</tr>
<tr>
<td>17908</td>
<td>Selected high-grade specimens: 1.23 percent $U_3O_8$.</td>
</tr>
<tr>
<td>18186</td>
<td>Water at 39 feet: Sediment contained 390 ppm $U_3O_8$; filtrate contained 0.90 ppm $U_3O_8$.</td>
</tr>
<tr>
<td>18187</td>
<td>Water at 50 feet: Sediment contained 230 ppm $U_3O_8$; filtrate contained 1.44 ppm $U_3O_8$.</td>
</tr>
<tr>
<td>19225</td>
<td>Water from dump at bottom of Copper King shaft: U, 0.80 ppm; Fe, 0.10 ppm; Cu, 1.5 ppm; Zn, 34 ppm; total solids 200 ppm; sediment 58 ppm $U_3O_8$; Fe in sediment 3.7 percent.</td>
</tr>
</tbody>
</table>
ASSAY PLAN, 60 FOOT LEVEL, COPPER KING SHAFT, BLACK HAWK NO. 1 CLAIM, LARIMER COUNTY, COLORADO

U.S. DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

MEMORANDUM REPORT NO. 128

COPPER KING SHAFT

ASSAY PLAN, 60 FOOT LEVEL, COPPER KING SHAFT, BLACK HAWK NO.1 CLAIM, LARIMER COUNTY, COLORADO

H.C. GRANGER, R.U. KING
OCTOBER, 1949