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No. 128

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
WASHINGTON

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



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UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
WASHINGTON 25, D. C.

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AEC-592/O

JUN 9 1950

Dr. Phillip L. Merritt, Assistant Manager
Raw Materials Operations
U. S. Atomic Energy Commission
P. O. Box 30, Ansools 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. Ismert
at Livermore, Colorado.

A more complete report on this property will be trans-
mitted at a later date.

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

Sincerely yours,

151 H. M. Bannerman

for W. H. Bradley
Chief Geologist

Enclosures 5

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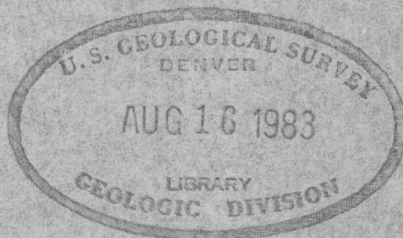
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REPORT OF FACTUAL DATA OBTAINED DURING EXAMINATION OF COPPER KING SHAFT,
BLACK HAWK CLAIM NO. 1, LARIMER COUNTY, COLORADO

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Harry C. Granger and Robert U. King

May 1950



Trace Elements Memorandum Report 128

USGS-TEMR-728

Consisting of 1 page and 1 figure
Issued to (See below)

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1 copy.....Mr. Harold E. Ismert, Huntington Park, Calif.

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BLACK HAWK CLAIM NO. 1, LARIMER COUNTY, COLORADO

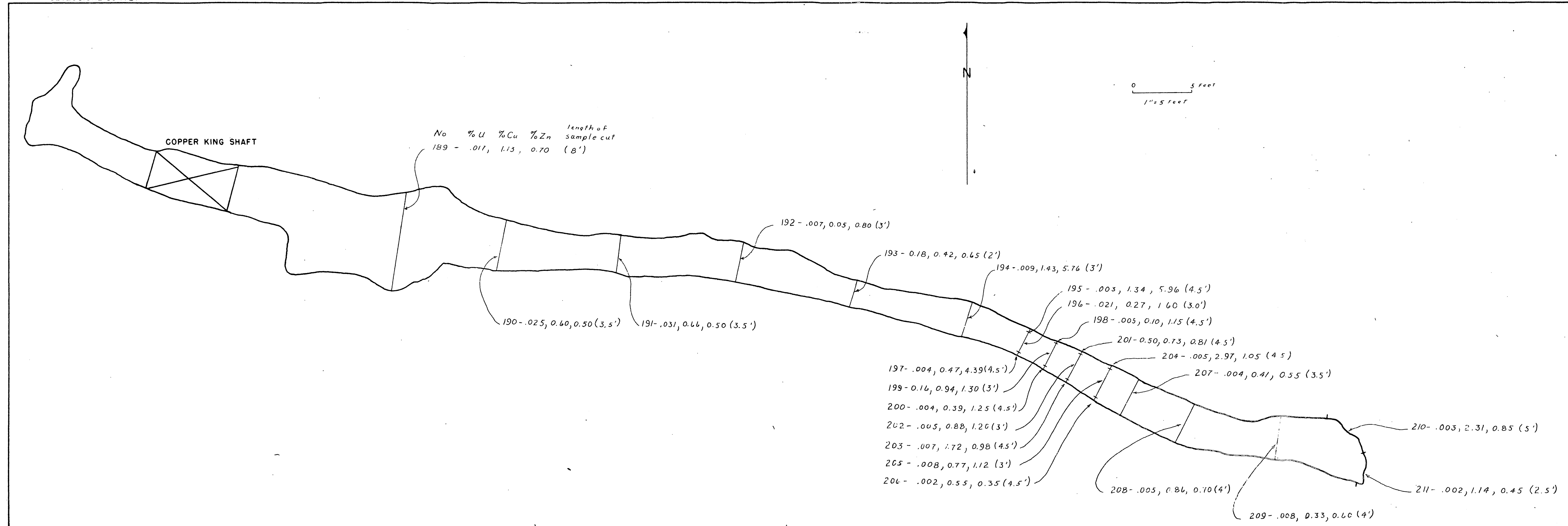
by

Harry C. Granger and Robert U. King

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:

Sample number	Description of sample and analyses
17907	Grab of fines from dump surrounding Copper King shaft: 0.006 percent U_3O_8 .
17908	Selected high-grade specimens: 1.23 percent U_3O_8 .
18186	Water at 39 feet: Sediment contained 390 ppm U_3O_8 ; filtrate contained 0.90 ppm U_3O_8 .
18187	Water at 50 feet: Sediment contained 230 ppm U_3O_8 ; filtrate contained 1.44 ppm U_3O_8 .
19225	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.



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