CONTACT INFORMATION
Mining Records Curator
Arizona Geological Survey
416 W. Congress St., Suite 100
Tucson, Arizona 85701
602-771-1601
http://www.azgs.az.gov
inquiries@azgs.az.gov

The following file is part of the Kelsey Boltz Mining Collection

ACCESS STATEMENT

These digitized collections are accessible for purposes of education and research. We have indicated what we know about copyright and rights of privacy, publicity, or trademark. Due to the nature of archival collections, we are not always able to identify this information. We are eager to hear from any rights owners, so that we may obtain accurate information. Upon request, we will remove material from public view while we address a rights issue.

CONSTRAINTS STATEMENT

The Arizona Geological Survey does not claim to control all rights for all materials in its collection. These rights include, but are not limited to: copyright, privacy rights, and cultural protection rights. The User hereby assumes all responsibility for obtaining any rights to use the material in excess of "fair use."

The Survey makes no intellectual property claims to the products created by individual authors in the manuscript collections, except when the author deeded those rights to the Survey or when those authors were employed by the State of Arizona and created intellectual products as a function of their official duties. The Survey does maintain property rights to the physical and digital representations of the works.

QUALITY STATEMENT

The Arizona Geological Survey is not responsible for the accuracy of the records, information, or opinions that may be contained in the files. The Survey collects, catalogs, and archives data on mineral properties regardless of its views of the veracity or accuracy of those data.

Minerals Exploration

(5) Prospect file

April 17, 1979

RE: High Count Claims
Property Submittal
URANIUM PROSPECT

Dear Sir:

The following are field notes on a uranium prospect which we are submitting for your review.

The radiometric values are in excess of 50 times background being 2,400 to 5,200 gross gamma per second with 120 cps being the background count. The property consists of five (5) unpatented mining claims located in T23N, R17W, Sections 31 and 32 in the Cerbat Mountains, Mohave County, Arizona. The claims are located in the Wallapai Mining District. A plat map is enclosed. The Bureau of Land Management recording numbers are A MC 34379, A MC 34380, A MC 34381, A MC 35664, A MC 35665.

The anomaly is approximately 56' wide at the first road cut and at the second road cut which is near the center of the anomaly, it is 105' wide and 44' wide at the upper end; length being 300'. Spectrographic analysis of the rock samples were made to determine if Thorium or rare earth elements were present. Thorium is nil while the samples revealed only traces of Neodymium and Yttrium. The claims are located in the Cerbat Mountains north of Kingman. This is a Precambrian igneous area with Tertiary intrusives being found to the north in the Mineral Park area which is the site of Duval's open pit copper, molybdenum mine.

The source of the uranium is probably derived from a rising hot water source due to the highly altered condition of the quartz monzonite. The High Count Mine is a hydrothermally altered zone in the Precambrian complex resulting from the late stage, high temperature deposition from late magmatic differentiates and associated fluids and vapors. The hydrothermal alteration is quite wide and this surface zone contains radiometric readings of 2,400 to 5,200 gross gamma per second. The Mineral Park and Stockton Hill areas of the Cerbat Mountains have had substantial near-surface bonanza silver chloride deposits in steeply dipping siliceous fissure veins that cut Precambrian igneous and metamorphic rocks. Later, production was from lead-zinc silver sulfide bodies in the deeper part of the veins.

The High Count claims are not a pegmatite deposit nor are they located in a sedimentary carbonaceous layer which is the host rock for most of the Arizona deposits. The claims are located in the Precambrian complex similar to the enviornment of most of the world deposits of uranium.

The U_3O_8 mineralization appears to be disseminated throughout the surface alteration which has formed a large low-grade deposit (100 - 500 ppm U) and spectrographic analysis shows the following elements associated with U_3O_8 in this material: copper, molybdenum, lead, cobalt, nichel, Zircon is also present in the altered zone in small amounts.

The deposit strikes nearly east N 75° E which is unusual as most of the fissure veins strike to the northwest. The deposit has had only limited work consisting of numerous shallow shafts and two road cuts showing alteration and high gross gamma readings. The altered material indicates that it is underlain by the source of the main mineralizing solutions responsible for the alteration. Most of this altered material appears to be quartz monzonite. The uranium mineralization is not contained in the quartz veinlets or stockwork but the quartz appears sheared and hematite stained.. There are indications of leached sulfide mineralization in one of the upper cuts (iron pyrites). Limonite staining is common in this area.

It is quite likely that this area has been faulted, then intruded by hydrotheraml solutions with movement and pressure within the faults resulting in the shearing and intrusion into the quartz monzonite. The rocks are highly faulted in this area and fault gouge is in evidence. The exact source of these mineralizing solutions has not been determined. The jointing of the igneous rocks is vertical.

We will be glad to show the property to you at which time you can take your own notes and samples. If your company is solely interested in sedimentary deposits, this property will not be applicable. If you are interested in examining a deposit in the Precambrian complex showing strong readings over a wide area, then this property would be well worth examining. A recent chemical analysis revealed .035% U_3O_8. The property is accessible by pickup truck, preferably 4-wheel drive.

Very truly yours,

JBR:slg

JOHN B. ROTHERMEL, Jr.

John B. Rothermel Jr.
Property Owner

6012 No. 47th Drive
Glendale, Arizona 85301

Home 1/602-934-6333
Work 1/602-255-3585

LABORATORY REPORT

Mariposa Spectrographic Laboratory

5029 FOURNIER ROAD, MARIPOSA, CALIFORNIA 95338
Telephone (209) 966-2591

CHARGES: $8.00

LAB NO. 30902

SUBMITTED BY:

John B. Rothermel, Jr.
6012 N. 47th Drive
Glendale, Arizona 85301

Qualitative Spectrographic Analysis

Date 4/18/79

ELEMENTS FOUND
AND ESTIMATED PERCENTAGE RANGE
OF CONCENTRATION

SAMPLE MARK

No mark

ELEMENT	Not Less Than %	Not More Than %	ELEMENT	Not Less Than %	Not More Than %	ELEMENT	Not Less Than %	Not More Than %
Aluminum Al_2O_3	5.0	10.0	Lithium			Thallium		
Antimony			Magnesium	4.0	8.0	Thorium		
Arsenic			Manganese	0.03	0.10	Tin		
Barium	.001	.006	Mercury			Titanium	0.03	0.10
Beryllium			Molybdenum	.0005	.001	Tungsten		
Bismuth			Nickel	.001	.006	Uranium U_3O_8	0.10	0.20
Boron			Osmium			Vanadium		
Calcium CaO	4.0	8.0	Palladium			Zinc	0.03	0.10
Cadmium			Phosphorus P_2O	1.0	3.0	Zirconium	.001	.006
Cesium			Platinum Not detected in sample			RARE EARTHS:		
Chromium	.001	.006	Potassium			Cerium		
Cobalt	.0007	.003	Rhenium			Dysprosium		
Columbium			Rhodium			Erbium		
Copper	.003	.009	Rubidium			Europium		
Gallium	.006	0.02	Ruthenium			Gadolinium		
Germanium			Scandium			Holmium		
Gold Not detected in sample			Silicon (as Si02)	major constituent		Lanthanum		
Hafnium			Silver	.00008	.0001	Neodymium		
Indium			Sodium			Praseodymium		
Iridium			Strontium			Samarium		
Iron Fe_2O_3	4.0	8.0	Tantalum			Ytterbium		
Lead	.001	.006	Tellurium			Yttrium		

Remarks: This material is principally composed of silicon-dioxide(Quartz), along with some aluminous-silicate. The radioactivity is due to some form of Uranium-Phosphate.

Respectfully Submitted

MARIPOSA SPECTROGRAPHIC LABORATORY (Spectrographer)

percent to ton (2,000 lbs.)
1.0% = 20.0 Lbs. AVOIR.
0.10% = 2.0 Lbs. AVOIR.
0.01% = 3.2 oz. AVOIR
0.001% = 0.32 oz. AVOIR.
0.0001% = 0.032 oz. AVOIR.

Most recent analyses- unable to identify uranium mineral. There is a hardrock deposit