CONTACT INFORMATION
Mining Records Curator
Arizona Geological Survey
1520 West Adams St.
Phoenix, AZ 85007
602-771-1601
http://www.azgs.az.gov
inquiries@azgs.az.gov

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Arizona Department of Mines and Mineral Resources Mining Collection

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PRINTED: 11-04-2009

ARIZONA DEPARTMENT OF MINES AND MINERAL RESOURCES AZMILS DATA

PRIMARY NAME: WHISPERING WIND CLAIMS

ALTERNATE NAMES:

YAVAPAI COUNTY MILS NUMBER: 1292

LOCATION: TOWNSHIP 8 N RANGE 3 W SECTION 35 QUARTER NW
LATITUDE: N 33DEG 59MIN 55SEC LONGITUDE: W 112DEG 32MIN 49SEC
TOPO MAP NAME: RED PICACHO - 7.5 MIN

CURRENT STATUS: UNKNOWN

COMMODITY:
URANIUM

BIBLIOGRAPHY:
ADMMR WHISPERING WINDS CLAIMS FILE

WHISPERING WIND
USLM 1307
Mine
Independence Mine
35
36
31
Climax Mine
Mt Vernon
JEEP
TRAIL
Tribby
Ruby
Wash
Wash
Pechan Camp
Mt Pechan
Wash
Spring
6
2
1
M O U N T A I N S
White Picacho
Picacho
Wash
Well
Domingo
San
Spring
Well
11
12
7
Red Picacho
USLM 1345
Quince 3337
15
14
13
Castle 3574
18
YAVAPAI CO
MARICOPA CO
Wash
Selin 3255
16

MELVIN H. JONES
Mining Geologist

October 15, 1977

17 1L5
1292
8N 36
35

RECONNAISSANCE GEOLOGICAL EXAMINATION OF THE WHISPERING WIND U.S.A. CLAIMS ABOUT 14 MILES NORTHEAST OF MORRISTOWN, ARIZONA

On September 2, 1977 the writer, with Mr. George Bundick, Geologist (Los Angeles), and Mr. J. David Campbell (from Wickenburg, Az.) the claims owner, made a reconnaissance geological visit to the Whispering Wind (2) claims located about 14 miles North-East of Morristown, Yavapai County, Arizona. They are in the South slope of the Wickenburg Mountains at an elevation of about 3700 feet. (See map, Incl.#1). They are also in what is known as the Headwaters of the San Domingo Wash (White Picacho mining District). The claims emanate some radio activity.

Apparently this potential uranium production exposure has been known for some time; other individuals had the deposit years ago. A four wheel vehicle (power) is necessary to get there over a poor road.

GEOLOGY.

The claims are located between the Physiographic provinces of "Basin and Range" and "Colorado Plateau" in a small transition zone (sometimes called "Mexican Highland". Portions of this area is also known as the "Arizona Pegmatite Belt".

The claim region is primarily Pre-Cambrian granitic schists and includes some Diorites and Rhyolites, and has many small pegmatites. Some of the Homogenetic pegmatites have been mined on a minor scale in the past for feldspar, lithium, beryllium, and bismuth.

The pegmatic masses of principal interest are enclosed by metamorphic rocks and appear as irregular, light colored patches in the prevailing darker country rock terrain. In general, the pegmatite is slightly more resistant to erosion than most of the older rocks. The oldest of the major rock units is the "Yavapai schist" (mostly monzonite) which is well known in the adjoining Bradshaw mountains (North). This is described by most geologists as similiar to, or allied with, the Vishnu schists of the Grand Canyon.

The formation on the claims from which some gamma and beta rays emanate, is most unusual. It is partially a hetrogenetic pegmatite in a portion of the "mound appearing structure" and this part contains the uranium and rare earth related elements. But this grades into a similiar appearing granitic rock containing obsidian phenocrysts (which carry no uranium nor Rare Earths). The presence of this latter described rock is beyond the realm of the "Pegmatite" definition. In other words, the uranium carrying black chrystals of Samarskite, grade into very similiar appearing black chrystals of Obsidian. See Incl. #5.

The whole mass could be likened to a "loaf of bread" with scattered "raisens". In places, the raisens are Samarskite, in others, obsidian. This pegmatic situation will be further discussed under "Conclussions" below.

DISCUSSION.

The interest in examining the Whispering Wind resulted from the increasing interest in searching for uranium deposits of commercial scope. What aroused more than casual interest in Mr. Campbell's claims was certain hand picked samples obtained by individuals in the past, which assayed up to 5 percent (or more) of uranium. The mineral carrying the uranium was miss-called Euxenite by earlier examiners (which is very similiar to Samarskite in appearance and content).

Lengthwise, and in the center of the mentioned mineral bearing "mound" is a deep bulldozer cut running East-West made some years ago at the direction of a California prospector. This made access easy for examining the deposit. Near the center, a rather high gamma ray reading was obtained with a Geiger Counter. A sample was taken there which was sent away for a spectrographic analysis. This sample consisted primarily of Samarskite chrystals (See incl #2 attached). Two (2) additional samples were taken from from arbitrarily picked locations, irrespective of the earlier geiger counter readings. One was a channel chip vertical cut near the SW portion. (See incl.#3); the other was a vertical chip channel cut near the NE portion of the "mound". (See incl#4). The latter two(2) samples were taken about ten (10) feet inward from the outer ~~per~~ perimeter of the "mound". Assays of the samples will be covered under "Conclusions", below.

The two (2) unpatented mining claims have a mound appearing mass there on, which is the result of the weathering away of the surounding rock. This prospect for a "hoped for" ore body, is about 85 feet in length, 45 feet wide, and 9.5 feet thick. Using a weight of 11.5 Cu.Ft. per short ton, it would have a tonnage of about 2000 short tons. This of course, rules out the deposit of having any size, irrespective of ore values

CONCLUSIONS .

The pegmatoid portion of the so called "mound" is a block and fully differentiated Perthite-granite pegmatite, the catagory that carries Samarskite (and uranium). This is a rare hetrogenetic pegmatite that can also be a source of Yttrium and Rare Earths of its group. There should be other pegmatites of this type in the area.

Assay results:

a Samples taken by the undersigned:

Location.	Type sample	U_3O_8
Near center.	Grab sample(mostly Samarskite) (spectrographic analysis)	4.5% (average).
Near outer perimeter SW quarter.	Vertical channel cut. 6 feet	0.015%

Near outer perimeter NE quarter. Vertical channel cut. 5.5 feet 0.002%

b Assay reports covering samples taken at previous times by others, follow: Locations of where samples were taken is unknown to the writer. Reports are attached for general information.

Company taking sample.	Date	U_3O_8	ThO_2
Urangesellschaft, USA, Inc.	July 19,1977	0.08%	0.019%
"	"	8.00%	1.50%
"	"	0.21%	0.079%
"	"	0.0050%	0.089%
"	"	0.010%	0.130%
Campbell Investment	May 20, 1977	5.51%	

Anyone who is experienced in uranium deposits and has examined the deposit, would know that all of the high uranium samples are from almost pure Samarskite chrystals. The lower uranium values average about 0.025% and this would appear to be the bulk of the deposit. Even doubling this figure would make the property uneconomical to mine. This value estimate is also exstrapolated to be correct as a result of the geiger counter readings taken with a geiger counter, by the writer.

It will be noted that some samples listed above show that Thorium exceeds the uranium content. With a uranium carrier, such as Samarskite, it can be considered that this will be a complex ore. Some of the elements can be exsolution. Anyone contemplating marketing this type of uranium ore, should first contact potential buyers, to see if they will accept it.

Concerning the Samarskite vs the old designation of Euxinite matter, it is to be pointed out that both of them have the same formula (Y,Er,Ce,U,Ca,Fe,Pb, th)(Cb,Ta,Ti) O_6. But Samarskite has Orthornombic chrystals, rectangular prisms with rough faces. It is commonly massive and sometimes in flattened disseminated grains. Samarskite is also known as a Tantalo-niobate of yttria, which is confirmed by the assay report. The form of some of the chrystals has been changed by metamict action from the uranium and thorium atoms.

The Whispering Wind claims are most interesting from a research perspective. The visit by the undersigned must be considered as too cursory (considering the time spent on the property) to be a final evaluation. Further exploration and systematic sampling could result in much higher values and mining potential, especially if other (and richer) deposits can be found in the area.

MELVIN H JONES
Mining Geologist.

Box 1196,
Wickenburg,Ariz.85358.

8 Inclosures. 9.

RED PICACHO Quad.
ARIZONA
U.S.G.S

5029 FOURNIER ROAD

TELEPHONE (209) 966-2591

Mariposa Spectrographic Laboratory

MARIPOSA, CALIFORNIA 95338

Melvin H. Jones
Box 1196
Wickenburg, Arizona 85358

September 11th, 1977

Dear Mr. Jones:

Enclosed, find our spectrographic analysis report, covering your sample as submitted, unmarked.

The sample contains a radioactive mineral that appears to be the mineral Samarskite, a Niobium(Columbium is the old name for the element) bearing mineral that also contains considerable Uranium and Yttrium.

Again, our thanks, Mr. Jones.

Sincerely,

George R. Graves

George R. Graves

1cc

#2

LABORATORY REPORT

Mariposa Spectrographic Laboratory

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

CHARGES: $6.00
LAB NO. 29388
SUBMITTED BY:

Date 9/11/77

Qualitative Spectrographic Analysis

Melvin H. Jones
Box 1196
Wickenburg, Arizona 85358

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	0.5	1.5	Lithium			Thallium		
Antimony			Magnesium	0.30	0.60	Thorium	---	Trace
Arsenic			Manganese	0.03	0.10	Tin	0.10	0.20
Barium	.003	.009	Mercury			Titanium	0.15	0.30
Beryllium			Molybdenum			Tungsten WO_3	0.5	1.0
Bismuth			Nickel	.0005	.001	Uranium UO_3	3.0	6.0
Boron	0.5	1.5	Osmium			Vanadium	----	.0005
Calcium CaO	2.0	4.0	Palladium			Zinc		
Cadmium			Phosphorus			Zirconium		
Cesium			Platinum Not detected in sample			RARE EARTHS:		
Chromium			Potassium	0.40	0.80	Cerium	0.01	0.06
Cobalt			Rhenium			Dysprosium		
Columbium Nb_2O_5	15.0	30.0	Rhodium			Erbium		
Copper	.005	0.01	Rubidium			Europium		
Gallium			Ruthenium			Gadolinium		
Germanium			Scandium			Holmium		
Gold Not detected in sample			Silicon (as Si02)	50.0	70.0	Lanthanum	0.01	0.06
Hafnium			Silver	.0001	.0003	Neodymium	0.02	0.07
Indium			Sodium			Praseodymium		
Iridium			Strontium	.0008	.004	Samarium		
Iron Fe_2O_3	3.0	6.0	Tantalum	0.15	0.30	Ytterbium		
Lead	0.10	0.20	Tellurium			Yttrium	8.0	15.0

Remarks: This sample is principally composed of what appears to be the mineral Samarskite, Quartz, and minor feldspar.

Respectfully Submitted

(Spectrographer)

MARIPOSA SPECTROGRAPHIC LABORATORY

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.

Erbium should be in euxenite

OUR MOTTO: — WHAT THERE IS IN IT, NO MORE NO LESS.

EDMUND E. PHILLIPS, Vice-Pres.—Gen. Mgr. M. E. PHILLIPS, Secretary

THE COLORADO ASSAYING COMPANY

(INCORPORATED)

ASSAYERS AND CHEMISTS

303—623-2842 2244 BROADWAY

DENVER, COLORADO 80201 Sept. 21, 1977

REPORT ON DETERMINATIONS MADE FOR—

Mr. Melvin H. Jones
Box #1196
Wickenburg, Arizona 85358

SAMPLE MARKS	METALS	Amount per Ton Ozs.	Amount per Ton Hds.	PER CENT	Value per Ton Dollars	Value per Ton Cents
W W Sample #1	Uranium Oxide (U_3O_8)			0.015%		

IDENTIFICATION

This sample is a Granite type rock.

It consists of white Feldspar (potassium, sodium, calcium aluminum silicate), translucent white Quartz (silica) and the black Tourmaline (complex boron, potassium, magnesium, iron, aluminum silicate). The brown stains are Limonite (hydrous iron oxide).

GOLD AT_____PER OUNCE SILVER AT_____PER OUNCE

LEAD AT_____PER UNIT COPPER AT_____PER UNIT

THE COLORADO ASSAYING COMPANY

By Ed Phillips

#3

OUR MOTTO: — WHAT THERE IS IN IT, NO MORE NO LESS.

EDMUND E. PHILLIPS, Vice-Pres.—Gen. Mgr.

M. E. PHILLIPS, Secretary

THE COLORADO ASSAYING COMPANY

(INCORPORATED)

ASSAYERS AND CHEMISTS

303—623-2842 2244 BROADWAY

DENVER, COLORADO 80201 Sept. 21, 1977

REPORT ON DETERMINATIONS MADE FOR —

Mr. Melvin H. Jones
Box #1196
Wickenburg, Arizona 85358

SAMPLE MARKS	METALS	Amount per Ton Ozs.	Amount per Ton Hds.	PER CENT	Value per Ton Dollars	Value per Ton Cents
Sample W W - [redacted] (2)	Uranium Oxide (U_3O_8)			None (under 0.002%)		
IDENTIFICATION This Sample is a Granite rock. It consists mostly of the white to pale pink Feldspar (potassium, sodium, calcium aluminum silicate). Several percent of the hard translucent white Quartz (silica) is present. The brown mineral and stains are Limonite. A trace of Thorium is present.						

THE COLORADO ASSAYING COMPANY

GOLD AT_____PER OUNCE SILVER AT_____PER OUNCE

LEAD AT_____PER UNIT COPPER AT_____PER UNIT

By Ed Phillips

#4

LABORATORY REPORT

Mariposa Spectrographic Laboratory

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

CHARGES: $6.00
LAB NO. 29265
SUBMITTED BY:

Date 10/11/77 PM

Qualitative Spectrographic Analysis

M. H. Jones
Box 1196
Wickenburg, Arizona 85358

ELEMENTS FOUND
AND ESTIMATED PERCENTAGE RANGE
OF CONCENTRATION

SAMPLE MARK
W.W. #1

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	4.0	8.0	Lithium			Thallium		
Antimony			Magnesium	0.02	0.07	Thorium		
Arsenic			Manganese	.007	0.03	Tin		
Barium	.0005	.001	Mercury			Titanium	0.03	0.10
Beryllium			Molybdenum			Tungsten		
Bismuth			Nickel	.0003	.0008	Uranium		
Boron			Osmium			Vanadium	.0004	.0009
Calcium CaO	0.5	1.0	Palladium			Zinc		
Cadmium			Phosphorus	0.02	0.08	Zirconium		
Cesium			Platinum Not detected in sample			RARE EARTHS:		
Chromium	.0006	.002	Potassium	0.5	1.0	Cerium		
Cobalt	----	.0005	Rhenium			Dysprosium		
Columbium			Rhodium			Erbium		
Copper	.0008	.004	Rubidium			Europium		
Gallium	.006	0.02	Ruthenium			Gadolinium		
Germanium			Scandium			Holmium		
Gold Not detected in sample			Silicon (as SiO2)	80.0	90.0	Lanthanum		
Hafnium			Silver	----	.00008	Neodymium		
Indium			Sodium	0.5	1.5	Praseodymium		
Iridium			Strontium			Samarium		
Iron Fe_2O_3	0.5	1.5	Tantalum			Ytterbium		
Lead	----	.005	Tellurium			Yttrium		

Remarks: This report is based upon the black portion of your sample. The substance is a form of volcanic glass known as obsidian.

Respectfully Submitted

Gwyfa C. Graves (Spectrographer)

MARIPOSA SPECTROGRAPHIC LABORATORY

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.

#5

SKYLINE LABS, INC.
SPECIALISTS IN EXPLORATION GEOCHEMISTRY
12090 WEST 50TH PLACE • WHEAT RIDGE, COLORADO 80033 • TEL.: (303) 424-7718

REPORT OF ANALYSES

Job No. 132250
July 19, 1977

Urangesellschaft, U.S.A., Inc.
2160 S. Holly
Denver, Colorado 80222

Attn: D. Hertzke

Analysis of 8 Rock Chip Samples

Dave Campbell Pegmatite
Wickenburg, Az.

Item	Sample No.	U (%)	Th (%)
4.	136-1	.080	.019
5.	136-2	.21	.079
6.	136-3	8.0	1.5
7.	136-4	.0050	.089
8.	136-5	.010	.13

Charles E. Thompson
Chief Chemist

#6

SKYLINE LABS, INC.
SPECIALISTS IN EXPLORATION GEOCHEMISTRY
12090 WEST 50TH PLACE • WHEAT RIDGE, COLORADO 80033 • TEL: (303) 424-7718

REPORT OF SPECTROGRAPHIC ANALYSES

Job No. 132250
July 19, 1977

Urangesellschaft, U.S.A., Inc.
2160 S. Holly
Denver, Colorado 80222

Attn: D. Hertzke

Values reported in parts per million, except where noted otherwise to the nearest number in the series 1, 1.5, 2, 3, 5, 7 etc.

EUXENITE

Element	Sample Number 136-1	136-3	
Fe	3%	2%	IRON
Ca	.3%	.2%	CALCIUM
Mg	.2%	.03%	MAGNESIUM
Ag	<1	<1	SILVER
As	<500	2,000	ARSENIC
B	5,000	500	BORON
Ba	15	200	BARIUM
Be	3	5	BERYLIUM
Bi	<10	30	BISMUTH
Cd	<50	<50	CADMIUM
Co	5	300	COBALT
Cr	10	10	CHROMIUM
Cu	20	100	COPPER
Ga	10	<10	GALLIUM
Ge	<20	<20	GERMANIUM
La	100	100	Lanthanum
Mn	500	2,000	MANGANESE
Mo	<2	<2	MOLYBDENUM
Nb	1,000	5,000	Niobium
Ni	5	50	NICKLE
Pb	20	500	LEAD
Sb	<100	<100	Antimoney
Sc	70	1,500	~~TIN~~ Scandium
Sn	20	200	TIN
Sr	50	150	STRONTIUM
Ti	500	2,000	~~THALLIUM~~ Titanium
V	20	300	VANADIUM
W	<50	<50	TONGSTEN
Y	500	10,000	Yittium
Zn	<200	<200	ZINC
Zr	50	200	ZIRCONIUM

Where is Ce To?

#7

Charles E. Thompson
Chief Chemist

PRODUCT DEVELOPMENT APPLIED RESEARCH

ARC LABORATORIES

Division of Arizona Research Consultants, Inc.

9236 NORTH 10TH AVE. PHOENIX, ARIZONA 85021 943-3573

FOR: Campbell Investment
Box 1297
Wickenburg, AZ 85358

DATE 5-20-77

LAB No. 14440

RESULTS

Uranium (U_3O_8) 5.51 %

Respectfully submitted,
ARC LABORATORIES

John T. Long, Jr.

#8

As a mutual protection to clients, the public and this corporation, this report is submitted and accepted for the exclusive use of the client to whom it is addressed and upon the condition that it is not to be used, in whole or in part, in any advertising or publicity matter without prior written authorization from this corporation.

TO:

ARC Laboratories
9236 N. 10th Avenue
Phoenix, Arizona 85026

(213) 838-5939 (213) 870-3749

Pacific Spectrochemical Laboratory, Inc.
Chemical and Spectrographic Analysis
2558 Overland Avenue
Los Angeles, California 90064

PURCHASE ORDER NO

June 27, 1977

SEMIQUANTITATIVE ANALYSIS

	#14518
Cb-	5.5% Columbium
Si-	27. silicon
[illegible]	[illegible] Boron
Al-	2.8 - aluminum
Mn-	1.2 - MANGANESE
Ca-	2.1 - Calcium
Sr-	0.39 - strontium
Fe-	2.6 - IRON
Yb-	2.9 - ytterbium
Dy-	1.0 - dysprosium
Ti-	0.42 - thallium
Y-	2.1 - yttrium
Be-	0.0067 - beryllium
Mg-	0.26 - magnesium
Pb-	0.13 LEAD
Sn-	0.056 TIN
Cu-	0.034 - COPPER
Ag-	0.0062 - SILVER
Na-	0.78 - Sodium
Nd-	0.29 - ~~neody~~ neodymium
Tm-	0.051 - thulium
Eu-	0.37 - europium
Other elements	nil

Respectfully submitted,

Hal W Johnson

PACIFIC SPECTROCHEMICAL LABORATORY, INC.

THIS REPORT IS SUBMITTED TO THE ADDRESSED CLIENT FOR HIS EXCLUSIVE USE. AS A PROTECTION TO THE CLIENT, THE PUBLIC AND THIS LABORATORY, THIS REPORT MAY NOT BE USED IN WHOLE OR IN PART FOR ADVERTISING, PUBLICITY OR PROMOTION WITHOUT WRITTEN AUTHORIZATION.

#19

5029 FOURNIER ROAD

TELEPHONE (209) 966-2591

Mariposa Spectrographic Laboratory

MARIPOSA, CALIFORNIA 95338

January 9th, 1976 PM

Melvin Jones
Box 406
Wickenburg, Arizona 85358

Dear Mr. Jones:

Enclosed, find our spectrographic analyses reports covering the analyses of your submitted samples as marked.

The samples are as we have described them under "remarks" on the respective reports, Mr. Jones. Your "B.R" sample is the better of the two, due to some mineralization in Copper. Sorry that we could not confirm the green colored mineral in the "B.C." sample as a secondary Copper mineral.

Again, our thanks to you, Mr. Jones.

Sincerely,

George R. Graves

George R. Graves

1cc

LABORATORY REPORT

Mariposa Spectrographic Laboratory

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

CHARGES: $5.00
LAB NO. 25913
SUBMITTED BY:

Date 1/9/76 PM

Qualitative Spectrographic Analysis

Melvin Jones
Box 406
Wickenburg, Arizona 85358

ELEMENTS FOUND
AND ESTIMATED PERCENTAGE RANGE
OF CONCENTRATION

SAMPLE MARK

B.C.

Boulder City Hwy

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	8.0	15.0	Lithium	.008	0.02	Thallium		
Antimony			Magnesium MgO	4.0	8.0	Thorium		
Arsenic			Manganese	.008	0.04	Tin		
Barium	0.05	0.15	Mercury			Titanium	.005	0.01
Beryllium			Molybdenum			Tungsten		
Bismuth			Nickel	.0004	.0009	Uranium		
Boron			Osmium			Vanadium	.0007	.003
Calcium CaO	4.0	8.0	Palladium			Zinc		
Cadmium			Phosphorus			Zirconium		
Cesium			Platinum Not detected in sample			RARE EARTHS:		
Chromium	.002	.008	Potassium K_2O	1.0	3.0	Cerium		
Cobalt	.0005	.001	Rhenium			Dysprosium		
Columbium			Rhodium			Erbium		
Copper	.002	.006	Rubidium			Europium		
Gallium	.002	.006	Ruthenium			Gadolinium		
Germanium			Scandium			Holmium		
Gold Not detected in sample			Silicon (as SiO2)	45.0	65.0	Lanthanum		
Hafnium			Silver	.00008	.0002	Neodymium		
Indium			Sodium Na_2O	2.0	4.0	Praseodymium		
Iridium			Strontium	0.01	0.04	Samarium		
Iron	2.0	4.0	Tantalum			Ytterbium		
Lead	0.01	0.06	Tellurium			Yttrium		

Remarks: This material is an altered pyroxenite formation. The green color is due to a hydrous Iron-oxide, and possibly some Orthoclase feldspar. Silver is present at up to 0.06 ounce per ton. Gold was not detected.

Respectfully Submitted,

(Spectrographer)

MARIPOSA SPECTROGRAPHIC LABORATORY

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.

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EDMUND E. PHILLIPS, Vice-Pres.—Gen. Mgr. M. E. PHILLIPS, Secretary

THE COLORADO ASSAYING COMPANY

(INCORPORATED)

ASSAYERS AND CHEMISTS

303—623-2842 2244 BROADWAY

DENVER, COLORADO 80201 Sept. 21, 1977

REPORT ON DETERMINATIONS MADE FOR—

Mr. Melvin H. Jones
Box #1196
Wickenburg, Arizona 85358

SAMPLE MARKS	METALS	Amount per Ton Ozs.	Amount per Ton Hds.	PER CENT	Value per Ton Dollars	Value per Ton Cents
Sample W W - [redacted] (2)	Uranium Oxide (U_3O_8)			None (under 0.002%)		
IDENTIFICATION This Sample is a Granite rock. It consists mostly of the white to pale pink Feldspar (potassium, sodium, calcium aluminum silicate). Several percent of the hard translucent white Quartz (silica) is present. The brown mineral and stains are Limonite. A trace of Thorium is present.						

GOLD AT_____PER OUNCE SILVER AT_____PER OUNCE

LEAD AT_____PER UNIT COPPER AT_____PER UNIT

THE COLORADO ASSAYING COMPANY

By Ed Phillips

OUR MOTTO: — WHAT THERE IS IN IT, NO MORE NO LESS.

EDMUND E. PHILLIPS, Vice-Pres.—Gen. Mgr.

M. E. PHILLIPS, Secretary

THE COLORADO ASSAYING COMPANY

(INCORPORATED)

ASSAYERS AND CHEMISTS

303—623-2842 2244 BROADWAY

DENVER, COLORADO 80201 Sept. 21, 1977

REPORT ON DETERMINATIONS MADE FOR —

Mr. Melvin H. Jones
Box #1196
Wickenburg, Arizona 85358

SAMPLE MARKS	METALS	Amount per Ton Ozs.	Amount per Ton Hds.	PER CENT		Value per Ton Dollars	Value per Ton Cents
W W Sample #1	Uranium Oxide (U_3O_8)			0	.015		

IDENTIFICATION

This sample is a Granite type rock.

It consists of white Feldspar (potassium, sodium, calcium aluminum silicate), translucent white Quartz (silica) and the black Tourmaline (complex boron, potassium, magnesium, iron, aluminum silicate). The brown stains are Limonite (hydrous iron oxide).

GOLD AT_____PER OUNCE SILVER AT_____PER OUNCE

LEAD AT_____PER UNIT COPPER AT_____PER UNIT

THE COLORADO ASSAYING COMPANY

By Ed Phillips

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Box #1196
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W W Sample #1	Uranium Oxide (U_3O_8)			0.015%		

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THE COLORADO ASSAYING COMPANY

By Ed Phillips

GOLD AT_____PER OUNCE SILVER AT_____PER OUNCE

LEAD AT_____PER UNIT COPPER AT_____PER UNIT

5629 FOURNIER ROAD

TELEPHONE (209) 966-2391

Mariposa Spectrographic Laboratory

MARIPOSA, CALIFORNIA 95338

September 11th, 1977

Melvin H. Jones
Box 1196
Wickenburg, Arizona 85358

Dear Mr. Jones:

Enclosed, find our spectrographic analysis report, covering your sample as submitted, unmarked.

The sample contains a radioactive mineral that appears to be the mineral Samarskite, a Niobium(Columbium is the old name for the element) bearing mineral that also contains considerable Uranium and Yttrium.

Again, our thanks, Mr. Jones.

Sincerely,

George E. Graves

George E. Graves

lcc

WILKINSON ASSAYS
REPORT

9491 SIERRA AVE., FONTANA, CA. 92335 PHONE: (714) 823-4607

We buy gold rings, Dental, & Scraps, or refine yours for 10 % of metal.

SINCE 1967

CHARGES $: 2.50

SAMPLE #: OLINGER (I)

WEIGHT USED: 29.3 grams

DATE TYPED : I2/6/76

SUBMITTED BY:

MELVIN JONES
BOX 406
WICKENBURG, ARIZ. 85358

CHEMICAL ASSAY

METALS	oz's per ton	grams per ton	price per oz	value per ton
GOLD	¼	4	$I30.20	$47.25
SILVER				
PLATINUM				
PALLADIUM				
RUTHENIUM				
RHODIUM				
IRIDIUM				
OSMIUM				
TUNGSTEN				
URANIUM				
MERCURY				
COPPER				
LEAD				

FIRE ASSAY

METALS	oz's per ton	grams per ton	price per oz.	value per ton
GOLD				
SILVER				
PLATINUM				
PALLADIUM				
RUTHENIUM				
RHODIUM				
IRIDIUM				
OSMIUM				
TUNGSTEN				
URANIUM				
MERCURY				
COPPER				
LEAD				

Based only on specimens left at lab.
Assay based on assay ton of 2 thousand pounds.

Duane Wilkinson
ASSAYER

WILKINSON ASSAYS
REPORT

9491 SIERRA AVE., FONTANA, CA. 92335 PHONE: (714) 823-4607

We buy gold rings, Dental, & Scraps, or refine yours for 10 % of metal.

SINCE 1967

CHARGES $: 3.50

SAMPLE #: OLINGER (2)

WEIGHT USED: 29.3 grams

DATE TYPED : 12/6/76

SUBMITTED BY:

MELVIN JONES

Your gold is also free mill gold ore, MELVIN.

CHEMICAL ASSAY

METALS	oz's per ton	grams per ton	price per oz	value per ton
GOLD		4½	$130.20	$18.90
SILVER			heavy	trace
PLATINUM				
PALLADIUM				
RUTHENIUM				
RHODIUM				
IRIDIUM				
OSMIUM				
TUNGSTEN				
URANIUM				
MERCURY				
COPPER				
LEAD				

FIRE ASSAY

METALS	oz's per ton	grams per ton	price per oz.	value per ton
GOLD				
SILVER				
PLATINUM				
PALLADIUM				
RUTHENIUM				
RHODIUM				
IRIDIUM				
OSMIUM				
TUNGSTEN				
URANIUM				
MERCURY				
COPPER				
LEAD				

Based only on specimens left at lab.
Assay based on assay ton of 2 thousand pounds.

Duane Wilkinson
ASSAYER

J.H.J. What file? a.p. K

MELVIN H. JONES
Mining Geologist

October 15, 1977

RECONNAISSANCE GEOLOGICAL EXAMINATION OF THE WHISPERING WIND U.O.8 CLAIMS ABOUT 14 MILES NORTHEAST OF MORRISTOWN, ARIZONA

On September 2, 1977 the writer, with Mr. George Bundick, Geologist (Los Angeles), and Mr. J. David Campbell (from Wickenburg, Az.) the claims owner, made a reconnaissance geological visit to the Whispering Wind (2) claims located about 14 miles North-East of Morristown, Yavapai County, Arizona. They are in the South slope of the Wickenburg Mountains at an elevation of about 5700 feet. (See map, Incl.#1). They are also in what is known as the Headwaters of the San Domingo Wash (White Picacho mining District). The claims emanate some radio activity.

Apparently this potential uranium production exposure has been known for some time; other individuals had the deposit years ago. A four wheel venicle (power) is necessary to get there over a poor road.

GEOLOGY.

The claims are located between the Physiographic provinces of "Basin and Range" and "Colorado Plateau" in a small transition zone (sometimes called "Mexican Highland". Portions of this area is also known as the "Arizona Pegmatite Belt".

The claim region is primarily Pre-Cambrian granitic schists and includes some Diorites and Rhyolites, and has many small pegmatites. Some of the Homogenetic pegmatites have been mined on a minor scale in the past for feldspar, lithium, beryllium, and bismuth.

The pegmatic masses of principal interest are enclosed by metamorphic rocks and appear as irregular, light colored patches in the prevailing darker country rock terrain. In general, the pegmatite is slightly more resistant to erosion than most of the older rocks. The oldest of the major rock units is the "Yavapai schist" (mostly monzonite) which is well known in the adjoining Bradshaw mountains (North). This is described by most geologists as similiar to, or allied with, the Vishnu schists of the Grand Canyon.

The formation on the claims from which some gamma and beta rays emanate, is most unusual. It is partially a hetrogenetic pegmatite in a portion of the "mound appearing structure" and this part contains the uranium and rare earth related elements. But this grades into a similiar appearing granitic rock containing obsidian phenocrysts (which carry no uranium nor Rare Earths). The presence of this latter described rock is beyond the realm of the "Pegmatite" definition. In other words, the uranium carrying black chrystals of Samarskite, grade into very similiar appearing black chrystals of Obsidian. See Incl. #5.

The whole mass could be likened to a "loaf of bread" with scattered "raisens". In places, the raisens are Samarskite, in others, obsidian. This pegmatic situation will be further discussed under "Conclussions" below.

DISCUSSION.

The interest in examining the Whispering Wind resulted from the increasing interest in searching for uranium deposits of commercial scope. What aroused more than casual interest in Mr. Campbell's claims was certain hand picked samples obtained by individuals in the past, which assayed up to 5 percent (or more) of uranium. The mineral carrying the uranium was miss-called Euxenite by earlier examiners (which is very similiar to Samarskite in appearance and content).

Lengthwise, and in the center of the mentioned mineral bearing "mound" is a deep bulldozer cut running East-West made some years ago at the direction of a California prospector. This made access easy for examining the deposit. Near the center, a rather high gamma ray reading wasn obtained with a Geiger Counter. A sample was taken there which was sent away for a spectrographic analysis. This sample consisted primarily of Samarskite chrystals (See incl #2 attached). Two (2) additional samples were taken from from arbitrarily picked locations, irrespective of the earlier geiger counter readings. One was a channel chip vertical cut near the SW portion. (See incl.#3); the other was a vertical chip channel cut near the NE portion of the "mound". (See incl#4). The latter two(2) samples were taken about ten (10) feet inward from the outer per perimeter of the "mound". Assays of the samples will be covered under "Conclusions", below.

The two (2) unpatented mining claims have a mound appearing mass there on, which is the result of the weathering away of the surounding rock. This prospect for a"hoped for"ore body, is about 85 feet in length, 45 feet wide, and 9.5 feet thick. Using a weight of 11.5 Cu.ft. per short ton, it would have a tonnage of about 2000 short tons. This of course, rules out the deposit of having any size, irrespective of ore values

CONCLUSIONS .

The pegmatoid portion of the so called "mound" is a block and fully differentiated Pertnite - granite pegmatite, the catagory that carries Samarskite (and uranium). This is a rare hetrogenetic pegmatite that can also be a source of Yttrium and Rare Earths of its group. There should be other pegmatites of this type in the area.

Assay results:

a Samples taken by the undersigned:

Location.	Type sample	U_3O_8
Near center.	Grab sample(mostly Samarskite) (spectrographic analysis)	4.5% (average).
Near outer perimeter SW quarter.	Vertical channel cut. 6 feet	0.015%

Near outer perimeter NE quarter. Vertical channel cut. 5.5 feet 0.002%

b Assay reports covering samples taken at previous times by others, follow: Locations of where samples were taken is unknown to the writer. Reports are attached for general information.

Company taking sample.	Date	U_3O_8	ThO_2
Urangesellschaft, USA, Inc.	July 19,1977	0.08%	0.019%
"	"	8.00%	1.50%
"	"	0.21%	0.079%
"	"	0.0050%	0.089%
"	"	0.010%	0.130%
Campbell Investment	May 20, 1977	5.51%	

Anyone who is experienced in uranium deposits and has examined the deposit, would know that all of the high uranium samples are from almost pure Samarskite chrystals. The lower uranium values average about 0.025% and this would appear to be the bulk of the deposit. Even doubling this figure would make the property uneconomical to mine. This value estimate is also exstrapolated to be correct as a result of the geiger counter readings taken with a geiger counter, by the writer.

It will be noted that some samples listed above show that Thorium exceeds the uranium content. With a uranium carrier, such as Samarskite, it can be considered that this will be a complex ore. Some of the elements can be exsolution. Anyone contemplating marketing this type of uranium ore, should first contact potential buyers, to see if they will accept it.

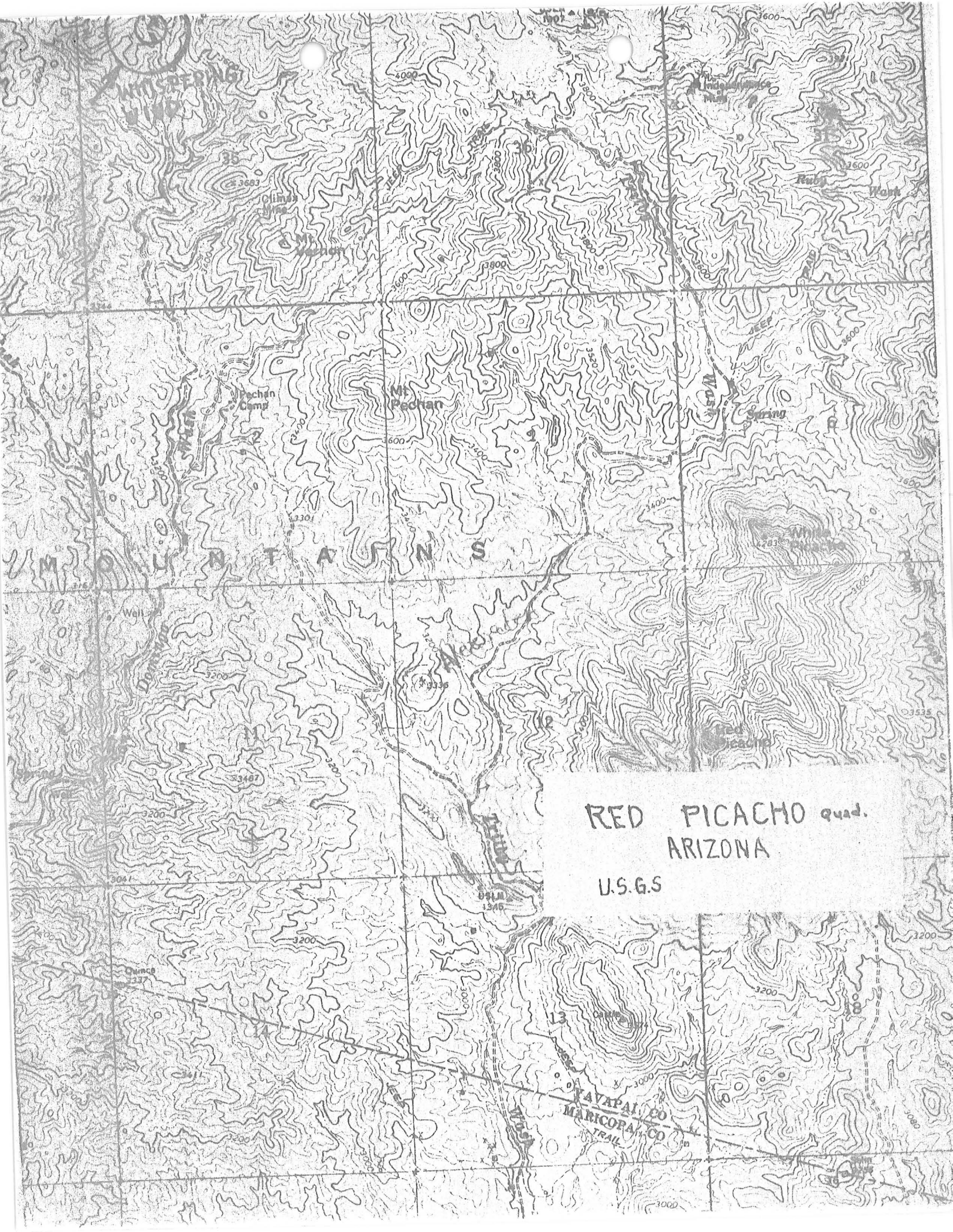
Concerning the Samarskite vs the old designation of Euxenite matter, it is to be pointed out that both of them have the same formula (Y,Er,Ce,U,Ca,Fe,Pb, th)(Cb,Ta,Ti) O_6. But Samarskite has Orthornombic chrystals, rectangular prisms with rough faces. It is commonly massive and sometimes in flattened disseminated grains. Samarskite is also known as a Tantalo-niobate of yttria, which is confirmed by the assay report. The form of some of the chrystals has been changed by metamict action from the uranium and thorium atoms.

The Whispering Wind claims are most interesting from a research perspective. The visit by the undersigned must be considered as too cursory (considering the time spent on the property) to be a final evaluation. Further exploration and systematic sampling could result in much higher values and mining potential, especially if other (and richer) deposits can be found in the area.

MELVIN H JONES
Mining Geologist.

Box 1196,
Wickenburg,Ariz.85358.

8 Inclosures. 9.


RED PICACHO Quad.
ARIZONA
U.S.G.S
WHISPERING WIND
Mt Pechan
Pechan Camp
Climax Mine
Spring
Wash
Ruby
Wash
Red Picacho
White Picacho
Well
Quince
YAVAPAI CO
MARICOPA CO
TRAIL

5029 FOURNIER ROAD

TELEPHONE (209) 966-2591

Mariposa Spectrographic Laboratory

MARIPOSA, CALIFORNIA 95338

September 11th, 1977

Melvin H. Jones
Box 1196
Wickenburg, Arizona 85358

Dear Mr. Jones:

Enclosed, find our spectrographic analysis report, covering your sample as submitted, unmarked.

The sample contains a radioactive mineral that appears to be the mineral Samarskite, a Niobium(Columbium is the old name for the element) bearing mineral that also contains considerable Uranium and Yttrium.

Again, our thanks, Mr. Jones.

Sincerely,

George R. Graves

George R. Graves

1cc

#2

LABORATORY REPORT

Mariposa Spectrographic Laboratory

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

CHARGES: $6.00
LAB NO. 29388
SUBMITTED BY:

Date 9/11/77

Qualitative Spectrographic Analysis

Melvin H. Jones
Box 1196
Wickenburg, Arizona 85358

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	0.5	1.5	Lithium			Thallium		
Antimony			Magnesium	0.30	0.60	Thorium	---	Trace
Arsenic			Manganese	0.03	0.10	Tin	0.10	0.20
Barium	.003	.009	Mercury			Titanium	0.15	0.30
Beryllium			Molybdenum			Tungsten WO_3	0.5	1.0
Bismuth			Nickel	.0005	.001	Uranium UO_3	3.0	6.0
Boron	0.5	1.5	Osmium			Vanadium	----	.0005
Calcium CaO	2.0	4.0	Palladium			Zinc		
Cadmium			Phosphorus			Zirconium		
Cesium			Platinum Not detected in sample			RARE EARTHS:		
Chromium			Potassium	0.40	0.80	✓Cerium	0.01	0.06
Cobalt			Rhenium			Dysprosium		
✓Columbium Nb_2O_5	15.0	30.0	Rhodium			Erbium		
Copper	.005	0.01	Rubidium			Europium		
Gallium			Ruthenium			Gadolinium		
Germanium			Scandium			Holmium		
Gold Not detected in sample			Silicon (as SiO2)	50.0	70.0	Lanthanum	0.01	0.06
Hafnium			Silver	.0001	.0003	Neodymium	0.02	0.07
Indium			Sodium			Praseodymium		
Iridium			Strontium	.0008	.004	Samarium		
Iron Fe_2O_3	3.0	6.0	✓Tantalum	0.15	0.30	Ytterbium		
Lead	0.10	0.20	Tellurium			✓Yttrium	8.0	15.0

Remarks: This sample is principally composed of what appears to be the mineral Samarskite, Quartz, and minor feldspar.

Respectfully Submitted
George D. Graves (Spectrographer)
MARIPOSA SPECTROGRAPHIC LABORATORY

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.

Erbium should be in Euxenite

OUR MOTTO: — WHAT THERE IS IN IT, NO MORE NO LESS.

EDMUND E. PHILLIPS, Vice-Pres.—Gen. Mgr. M. E. PHILLIPS, Secretary

THE COLORADO ASSAYING COMPANY

(INCORPORATED)

ASSAYERS AND CHEMISTS

303—623-2842 2244 BROADWAY

DENVER, COLORADO 80201 Sept. 21, 1977

REPORT ON DETERMINATIONS MADE FOR —

Mr. Melvin H. Jones
Box #1196
Wickenburg, Arizona 85358

SAMPLE MARKS	METALS	Amount per Ton Ozs.	Amount per Ton Hds.	PER CENT	Value per Ton Dollars	Value per Ton Cents
W W Sample #1	Uranium Oxide (U_3O_8)			0.015		

IDENTIFICATION

This sample is a Granite type rock.

It consists of white Feldspar (potassium, sodium, calcium aluminum silicate), translucent white Quartz (silica) and the black Tourmaline (complex boron, potassium, magnesium, iron, aluminum silicate). The brown stains are Limonite (hydrous iron oxide).

THE COLORADO ASSAYING COMPANY

By Ed Phillips

GOLD AT_____PER OUNCE SILVER AT_____PER OUNCE

LEAD AT_____PER UNIT COPPER AT_____PER UNIT

#3

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EDMUND E. PHILLIPS, Vice-Pres.—Gen. Mgr.

M. E. PHILLIPS, Secretary

THE COLORADO ASSAYING COMPANY

(INCORPORATED)

ASSAYERS AND CHEMISTS

303—623-2842 2244 BROADWAY

DENVER, COLORADO 80201 Sept. 21, 1977

REPORT ON DETERMINATIONS MADE FOR—

Mr. Melvin H. Jones
Box #1196
Wickenburg, Arizona 85358

SAMPLE MARKS	METALS	Amount per Ton Ozs.	Amount per Ton Hds.	PER CENT	Value per Ton Dollars	Value per Ton Cents
Sample W W - [redacted] (2)	Uranium Oxide (U_3O_8)			None (under 0.002%)		
IDENTIFICATION This Sample is a Granite rock. It consists mostly of the white to pale pink Feldspar (potassium, sodium, calcium aluminum silicate). Several percent of the hard translucent white Quartz (silica) is present. The brown mineral and stains are Limonite. A trace of Thorium is present.						

THE COLORADO ASSAYING COMPANY

GOLD AT_____PER OUNCE SILVER AT_____PER OUNCE

LEAD AT_____PER UNIT COPPER AT_____PER UNIT

By Ed Phillips

#4

LABORATORY REPORT

Mariposa Spectrographic Laboratory

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

CHARGES: $6.00
LAB NO. 29265
SUBMITTED BY:

Date 10/11/77 PM

Qualitative Spectrographic Analysis

M. H. Jones
Box 1196
Wickenburg, Arizona 85358

ELEMENTS FOUND
AND ESTIMATED PERCENTAGE RANGE
OF CONCENTRATION

SAMPLE MARK
W.W. #1

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	4.0	8.0	Lithium			Thallium		
Antimony			Magnesium	0.02	0.07	Thorium		
Arsenic			Manganese	.007	0.03	Tin		
Barium	.0005	.001	Mercury			Titanium	0.03	0.10
Beryllium			Molybdenum			Tungsten		
Bismuth			Nickel	.0003	.0008	Uranium		
Boron			Osmium			Vanadium	.0004	.0009
Calcium CaO	0.5	1.0	Palladium			Zinc		
Cadmium			Phosphorus	0.02	0.08	Zirconium		
Cesium			Platinum Not detected in sample			RARE EARTHS:		
Chromium	.0006	.002	Potassium	0.5	1.0	Cerium		
Cobalt	—	.0005	Rhenium			Dysprosium		
Columbium			Rhodium			Erbium		
Copper	.0008	.004	Rubidium			Europium		
Gallium	.006	0.02	Ruthenium			Gadolinium		
Germanium			Scandium			Holmium		
Gold Not detected in sample			Silicon (as SiO2)	80.0	90.0	Lanthanum		
Hafnium			Silver	—	.00008	Neodymium		
Indium			Sodium	0.5	1.5	Praseodymium		
Iridium			Strontium			Samarium		
Iron Fe_2O_3	0.5	1.5	Tantalum			Ytterbium		
Lead	—	.005	Tellurium			Yttrium		

Remarks: This report is based upon the black portion of your sample. The substance is a form of volcanic glass known as obsidian.

Respectfully Submitted

Lorne R. Graves (Spectrographer)
MARIPOSA SPECTROGRAPHIC LABORATORY

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.

#5

SKYLINE LABS, INC.
SPECIALISTS IN EXPLORATION GEOCHEMISTRY
12090 WEST 50TH PLACE • WHEAT RIDGE, COLORADO 80033 • TEL.: (303) 424-7718

REPORT OF ANALYSES

Job No. 132250
July 19, 1977

Urangesellschaft, U.S.A., Inc.
2160 S. Holly
Denver, Colorado 80222

Attn: D. Hertzke

Analysis of 8 Rock Chip Samples

Dave Campbell Pegmatite
Wickenburg, Az.

Item	Sample No.	U (%)	Th (%)
4.	136-1	.080	.019
5.	136-2	.21	.079
6.	136-3	8.0	1.5
7.	136-4	.0050	.089
8.	136-5	.010	.13

Charles E. Thompson
Chief Chemist

#6

SKYLINE LABS, INC.
SPECIALISTS IN EXPLORATION GEOCHEMISTRY
12090 WEST 50TH PLACE • WHEAT RIDGE, COLORADO 80033 • TEL.: (303) 424-7718

REPORT OF SPECTROGRAPHIC ANALYSES

Job No. 132250
July 19, 1977

Urangesellschaft, U.S.A., Inc.
2160 S. Holly
Denver, Colorado 80222

Attn: D. Hertzke

Values reported in parts per million, except where noted otherwise to the nearest number in the series 1, 1.5, 2, 3, 5, 7 etc.

EUXENITE

Element	Sample Number 136-1	136-3	
Fe	3%	2%	IRON
Ca	.3%	.2%	CALCIUM
Mg	.2%	.03%	MAGNESIUM
Ag	<1	<1	SILVER
As	<500	2,000	ARSENIC
B	5,000	500	BORON
Ba	15	200	BARIUM
Be	3	5	BERYLIUM
Bi	<10	30	BISMUTH
Cd	<50	<50	CADMIUM
Co	5	300	COBALT
Cr	10	10	CHROMIUM
Cu	20	100	COPPER
Ga	10	<10	GALLIUM
Ge	<20	<20	GERMANIUM
La	100	100	Lanthanum
Mn	500	2,000	MANGANESE
Mo	<2	<2	MOLYBDENUM
Nb	1,000	5,000	Niobium
✓ Ni	5	50	NICKLE
Pb	20	500	LEAD
Sb	<100	<100	Antimoney
Sc	70	1,500	~~TIN~~ Scandium
Sn	20	200	TIN
Sr	50	150	STRONTIUM
✓ Ti	500	2,000	~~THALLIUM~~ Titanium
V	20	300	VANADIUM
W	<50	<50	TONGSTEN
Y	500	10,000	Yittrium
Zn	<200	<200	ZINC
Zr	50	200	ZIRCONIUM

Where is R
Ce
La

#7

Charles E. Thompson
Chief Chemist

ARC LABORATORIES

Division of Arizona Research Consultants, Inc.
9236 NORTH 10TH AVE. PHOENIX, ARIZONA 85021 943-3573

FOR: Campbell Investment
Box 1297
Wickenburg, AZ 85358

DATE 5-20-77

LAB No. 14440

RESULTS

Uranium (U_3O_8) 5.51 %

Respectfully submitted,
ARC LABORATORIES

John T. Long, Jr.

48

As a mutual protection to clients, the public and this corporation, this report is submitted and accepted for the exclusive use of the client to whom it is addressed and upon the condition that it is not to be used, in whole or in part, in any advertising or publicity matter without prior written authorization from this corporation.

10

ARC Laboratories
9236 N. 10th Avenue
Phoenix, Arizona 85026

(213) 838-5939 (213) 870-3743

Pacific Spectrochemical Laboratory, Inc.
Chemical and Spectrographic Analysis
2558 Overland Avenue
Los Angeles, California 90064

PURCHASE ORDER NO

June 27, 1977

SEMIQUANTITATIVE ANALYSIS

	#14518
Cb-	5.5% Columbium
Si-	27. silicon
[illegible]	[illegible] Boron
Al-	2.8 - aluminum
Mn-	1.2 - MANGANESE
Ca-	2.1 - Calcium
Sr-	0.39 - strontium
Fe-	2.6 - IRON
Yb-	2.9 - ytterbium
Dy-	1.0 - dysprosium
Ti-	0.42 - thallium
Y-	2.1 - yttrium
Be-	0.0067 - beryllium
Mg-	0.26 - magnesium
Pb-	0.13 LEAD
Sn-	0.056 TIN
Cu-	0.034 - COPPER
Ag-	0.0062 - SILVER
Na-	0.78 - Sodium
Nd-	0.29 - ~~[illegible]~~ neodymium
Tm-	0.051 - thulium
Eu-	0.37 - europium
Other elements	nil

Respectfully submitted,

Hal W Johnson

PACIFIC SPECTROCHEMICAL LABORATORY, INC.

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#19

TO:

ARC Laboratories
9236 N. 10th Avenue
Phoenix, Arizona 85026

(213) 838-5939 (213) 870-3749

Pacific Spectrochemical Laboratory, Inc.
Chemical and Spectrographic Analysis
2558 Overland Avenue
Los Angeles, California 90064

PURCHASE ORDER NO

June 27, 1977

SEMIQUANTITATIVE ANALYSIS

	#14518
Cb-	5.5% Columbium
Si-	27. silicon
B-	0.16 Boron
Al-	2.8 - aluminum
Mn-	1.2 - MANGANESE
Ca-	2.1 - Calcium
Sr-	0.39 - strontium
Fe-	2.6 - IRON
Yb-	2.9 - ytterbium
Dy-	1.0 - dysprosium
Ti-	0.42 - thallium
Y-	2.1 - yttrium
Be-	0.0067 - beryllium
Mg-	0.26 - magnesium
Pb-	0.13 LEAD
Sn-	0.056 TIN
Cu-	0.034 - COPPER
Ag-	0.0062 - SILVER
Na-	0.78 - Sodium
Nd-	0.29 - ~~nody~~ neodymium
Tm-	0.051 - thulium
Eu-	0.37 - europium
Other elements	nil

Respectfully submitted,

Hal W Johnson

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719

240'

.27 U_3O_8
1.16 Cu
70 oz Ag

264'

G Sidar
132

7

USGS
1200

S. Eads St
Arlington, VA
22202

GS Cir 753
1977

Short Papers of the
USGS U-Th
Symposium
1977