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03/16/95

ARIZONA DEPARTMENT OF MINES AND MINERAL RESOURCES FILE DATA

PRIMARY NAME: LITTLE LULU CLAIMS

ALTERNATE NAMES:

COCHISE COUNTY MILS NUMBER: 605

LOCATION: TOWNSHIP 20 S RANGE 27 E SECTION 13 QUARTER NE
LATITUDE: N 31DEG 40MIN 52SEC LONGITUDE: W 109DEG 33MIN 29SEC
TOPO MAP NAME: SWISSHELM MOUNTAIN - 15 MIN

CURRENT STATUS: EXP PROSPECT

COMMODITY:

FLUORINE FLUORSPAR
BERYLLIUM BERYL
MOLYBDENUM POWELLITE
TUNGSTEN SCHEELITE
GOLD
SILVER

BIBLIOGRAPHY:

USBM FILE 467, FLUORSPAR SUM RPTS, AZ SUMMARY
REPORT STEWART 152
ADMMR "U" FILE, F13
"MIN. & WTR RES. OF AZ" AZBM BULL. 180, P 105
ADMMR LITTLE LULU CLAIMS FILE

LITTLE LULU CLAIMS

COCHISE

Field interview with Ben Williams regarding fluorspar and beryllium prospects just east of Elfrida. Was able, today, to pick up the report on this property which was made at the time Mr. Williams owned it. GWI WR 10/4/72

retyped copy - March 16, 1995

MEMORANDUM ON THE LITTLE LULU CLAIM GROUP

COCHISE COUNTY, ARIZONA

This group of nine unpatented claims lies on the western slopes of the Swisshelm Mountains, due east of Elfrida, in Sec. 23 of T 20S, R 27E. A poor, newly constructed road reaches the southern end of the property. The owners are Messrs. Larry Moore and Leon Kuntz, ranchers in the area. However, the property is being handled by Mr. B.F. Williams of Douglas, under an unknown agreement. The claims are surveyed and the location work has not been started at the time of this examination, made on August 16th and August 23rd.

A large body of Tertiary (?) granite intrudes a thick series of northwest striking upper Paleozoic limestone. The sediments dip to the north east at moderate angles. In general the granite has intruded the sediments nearly on strike making up the western and lower slopes of the area. As a result of pyrometasmatic action of the granite intrusion, the limestones have been altered and, in places, erratically metallized. The alteration minerals are garnet, chlorite, and various lime-magnesian silicates. The alteration and metallization appears to be confined to relatively narrow zones bordering the granite.

The metallization consists of chalcopyrite, pyrite, fluorite, scheelite, powelite, and beryl as will be described later. Some limited oxidation has take place but little or no enrichment could be expected.

The development work to date is limited to one large cut and several old shallow pits and cuts. Evidently the area has been well prospected in the past for tungsten mineralization which, from the samples taken, was far too low to be of interest.

Beryl was noted in two localities during the visit. One is the large cut mentioned near the road at the southern end of the property. Here the beryl occurs in highly altered granite near the granite-limestone contact. It is in narrow (up to 1/4") discontinuous veinlets, mainly white in color resembling plagioclase and difficult to recognize. Some scheelite and powellite occur in the altered limestone together with fluorite. The main beryl showing lies some 2000-3000 feet north where a shallow cut and pit was put down on the granite-limestone contact. Here again, the beryl occurs in narrow, erratic veinlets in highly altered granite. The beryl is predominantly green but some white may be present. Its occurrence is scattered and may be expected to be difficult to follow. There is some thought that the altered granite here referred to is pegmatite. This has not been ruled out but if the altered granite is pegmatite, it must be later than the main large granite intrusive and injected along the original granite-limestone contact. In either event, the altered granite or pegmatite is highly sericitized and kaolinized. Some trenching from this occurrence to the nearby main unaltered granite body would clear up this point. A total of 13 samplers was taken and their description and assays are given below.

No.	Description	% Cu	%BeO	%WO ₃	%Mo
430	3' cut, No. pit, alt gran. Bt. beryl		1.54	.07	.06
431	3' cut, No. pit, alt gran. Bt. beryl		1.18	.06	.02
432	18' cut, No. pit, alt gran. and Ls, beryl stringers		1.02	.08	.04
434	Dump above pit		1.00	.07	..07
435	5' vert. cut, alt. gran. from No. pit		1.48	.04	.12
436	8' hor. cut, alt gran. & Ls, No. pit		1.40	.06	.02
437	High graded beryl sample from No. pit		6.48	.06	.02
438	Grab from shallow pit 300' So. of , Cu sulfides, alt. gran.	.22		.23	.03
439	Grab from another shallow pit, Cu stained alt. gran.	.06	1.12	.06	.03
440	So. pit, cut of alt. Ls near contact	.06		.07	.02
441	Pit in saddle, alt. Ls			.06	.01
442	Grab, dump of So. pit, picked fluorite				.02
443	Grab, alt. gran So. pit, beryl		1.36	.05	.01

Sample No. 442 carried 43.7% CaF₂. All samples showed only a trace or less of precious metals.

The BeO results show a remarkable consistency, varying only between 1.00 and 1.54% (neglecting sample No. 437), since no beryl was noted in some of the samples and samples were taken of both altered limestone and granite, the results are viewed with suspicion. These assays are now being checked by others and it is believed different results will be obtained. If, however, the BeO content is checked and is found recoverable, some trenching of the altered zone would be in order.

The other metallization, such as the tungsten and molybdenum, is too low grade and erratic to be economical. Any further consideration of the property, then, will depend entirely on the beryllium content and its recoverability.

Signed

John Hope

September 11, 1954

retyped copy - March 16, 1995

ASSAYERS
CHEMISTS

EL PASO, TEXAS
Box 4

HAWLEY & HAWLEY
W.F. Hawley, Manager
DOUGLAS, ARIZONZ
537 TWELTH STREET
Box 1050

SHIPPERS REPRESENTATIVES
BULLION BUYERS
ORE BUYERS

WE HEREBY CERTIFY THAT THE FOLLOWING RESULTS WERE OBTAINED FROM SAMPLES OF Phelps Dodge Corp.

OFFICE NO.	MARKED	GOLD OZS	SILVER OZS	LEAD PERCENT	COPPER PERCENT	ZINC PERCENT	IRON PERCENT	%WO3	%Mo	%BeO
272666	Sample 313							0.09	0.01	1.36

DATE 9/10/54

Signed
W. F. Hawley, Jr.

Sept. 14, 1954

Samples for the determination of BeO

		% BeO
#	432	tr.
	435	nil
	437	4.68

Signed
W. F. Hawley, Jr.

retyped copy - March 16, 1995

Douglas, Arizona
October 9, 1954

Memorandum to C. R. K.

Re: BeO Analysis

On Friday, October 8th, Mr. Tuwiner called from Laurel Hill and stated that Mr. Lusk on his analysis of Samples 431, 435, and 437 was correct. He stated they had found what they had weighed as BeO precipitate was actually almost all alumina. In regard to the high grade Sample No. 437 the new analysis indicated 4.80% against Lusk's of 4.65%. He believed that there was still a small amount of alumina and believed that Mr. Lusk's 4.68 was probably closer to the correct BeO content. Below are listed Mr. Tuwiner's new analyses against Mr. Lusk's:

<u>Sample No.</u>	<u>% BeO</u> <u>Tuwiner</u>	<u>Lusk</u>
431	0.16	Tr.
435	Tr.	Nil
437	4.80	4.68

E. E. M.

EEM:r

retyped copy - March 16, 1995

Dr. S. M. Runke, Director
U.S. Bureau of Mines
School of Mines Campus
Rapid City, South Dakota

Dear Dr. Runke

At the suggestion of Dr. Cunningham of the University of Arizona I am mailing you three samples labeled I, II, and III of ore which is supposed to contain beryllium. We have had some difficulty in getting checks from various laboratories on the determination of BeO. Dr. Cunningham advises me that you are the expert in this line and we certainly would appreciate your help in solving this puzzle of the determination of the correct amount of BeO.

For identification purposes the three samples are listed as follows:

I This sample is marked in Arabic numerals "431" 0.128-0.132

II This sample is marked on the envelope "9/16/54 - B. F. Williams No. end". 0013-0016

III This one is marked on the envelope "9/16/95" - B. F. Williams, So. end". 0012-0012

As an example of the difficult, we have three determinations on Sample I - 0.05, 1.18, and 1.48, respectively.

In as much as these samples represent what might turn out to be a sizable deposit, it is of considerable importance that the sample assaying be correct.

I understand that you have done some successful work in concentrating beryl ore of a grade 1% and even lower and that you have issued some publications. I would appreciate very much receiving copies of such publications, and again I assure that your help in this matter will be of considerable value.

Yours very truly

Signed