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PRINTER: 09-08-2006

ARIZONA DEPARTMENT OF MINES AND MINERAL RESOURCES AZMILS DATA

PRIMARY NAME: LUCKY MICA

ALTERNATE NAMES:
FORTNER & BOYD LITHIUM

MARICOPA COUNTY MILS NUMBER: 249B

LOCATION: TOWNSHIP 6 N RANGE 5 W SECTION 17 QUARTER NE
LATITUDE: N 33DEG 51MIN 36SEC LONGITUDE: W 112DEG 48MIN 07SEC
TOPO MAP NAME: VULTURE MOUNTAINS - 15 MIN

CURRENT STATUS: DEVEL DEPOSIT

COMMODITY:
LITHIUM
BERYLLIUM
MICA MUSCOVITE
FELDSPAR ALBITE
COLUMBIUM
TANTALUM

BIBLIOGRAPHY:
USGS VULTURE MTNS QUAD
ADMMR LUCKY MICA FILE
ARIZONA DEPARTMENT OF MINES AND MINERAL RESOURCES AZMILS DATA

PRIMARY NAME: LUCKY MICA CLAIMS 1-2

ALTERNATE NAMES:
  QUARTZ #1
  M.S. 4647

MARICOPA COUNTY MILS NUMBER: 245B

LOCATION: TOWNSHIP 6 N RANGE 5 W SECTION 14 QUARTER SW
LATITUDE: N 33DEG 51MIN 23SEC  LONGITUDE: W 112DEG 45MIN 51SEC
TOPO MAP NAME: VULTURE MOUNTAINS - 15 MIN

CURRENT STATUS: UNKNOWN

COMMODITY:
  MICA

BIBLIOGRAPHY:
  USGS VULTURE MTNS QUAD
  BLM MINING DISTRICT SHEET
  ADDITIONAL WORKINGS SEC 15 SE1/4 -T6N-R5W
Visited, with A. L. Flagg, Bert Boyd at Lucky Mica property (lithium) and inspected the stripped area and shallow workings in the pegmatite dike which traverses the property. It contains abundant spodumene, ambligonite and lepidolite. Mr. Boyd is part owner and resides near the mine. This property received extensive development several years ago when keen national interest was being shown in the possibilities of lithium as a source material for development of atomic energy. It has been idle since that time and no renewed activity seems imminent.

TPL WR 5-11-59
Floyd Hanley in office states he has an option on this property. LP 1-12-65
LUCKY MICA # 1 AND # 2 (aka FORTNER AND BOYD LITHIUM MINING

Sec. 17, T. 6N., R. 5W.

Maricopa County

reference: Arizona Dept. of Mineral Resources Lucky Mica Nos. 1 and 2 (file)

present owner:

minerals: amblygonite spodumene, and lepidolite – lithium

history of the area:
In 1950 the property was owned by, B. H. Fortner of Prescott and Bob Boyd of Wickenburg. Some exploration work was carried out. The property was idle in 1958. The Arizona Continental Uranium Co. of Phoenix reported that the are body was satisfactory, but they had no way of economically processing the ore. Lithium content of 3.0 to 3.5% was reported.

geology: A 35 to 100 foot wide pegmatite dike contains the lithium minerals.

property consist of 3 unpatented claims
ARIZONA
MARICOPA COUNTY
LUCKYMICA MINE (SW Wickenburg)

MM 1196 Lepidolite
7418 Spodumene
7419 Amblygonite

MILES 2496
I-AKA
LUCKY MICA (file)
Mr. B. H. Fortner,  
224 W. Gurley St.,  
Prescott, Arizona.

Dear Mr. Fortner:

We have re-examined your sample (our No. 26090) and have obtained a good Lithium test which we did not on the first examination. This Mica is Lepidolite (a Lithium-bearing Mica). Lepidolite has commercial value as an ore of Lithium. Lepidolite is quoted in E. & M. J. metal markets at $80.00 per Ton containing 4% lithium oxide (Li2O), in car load lots.

We trust you were not unduly inconvenienced by this previous report.

Very truly yours,

John W. Anthony,  
Mineralogist.

Mr. Flagg:

My only purpose in sending you this copy is that I thought it might help you run down the facts which they have obtained. It would seem that a good lithium test would be 4% or better as this would be the minimum required for commercial use. I will be glad to pay them for any analysis they have made if it is reliable.

I will wait for your recommendation as to what I should do next. I will pay for any telephone calls or other expense necessary to get this figured out as soon as we can.

B.H.F.
MINE

Lucky Mica No.1 and No.2

DATE

April 1950

DISTRICT

Vulture, Maricopa county

ENGINEER

A.L. Flagg

principal opening an irregular hole about 8-ft by 12-ft deep with short drifts running each way along strike.

Other workings consist of shallow trenches along the strike, mostly to the south at irregular intervals over a length of about 1000-ft. Purpose to explore the continuity of pegmatite dike.

In the larger hole a segregation of lepidolite. In one corner a smaller but distinct segregation of amblygonite. On dump plus or minus five tons of lepidolite.

In float a shallow draw southwest of the larger hole some small crystals of beryl found. No other indication of beryl along strike.

Less indication of either amblygonite or lepidolite to the north of the larger hole.

Parallel pegmatite dikes not explored as of this date.

Samples of amblygonite and lepidolite submitted, by the Department, to Smith-Emery Company, Los Angeles, Cal. for spec analysis.
REPORT OF QUALITATIVE SPECTROGRAPHIC EXAMINATION

<table>
<thead>
<tr>
<th>Element</th>
<th>Approximate Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>Silicon</td>
<td>Major Constituent</td>
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<tr>
<td>Aluminum</td>
<td>Intermediate Constituents</td>
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<tr>
<td>Sodium</td>
<td>1%</td>
</tr>
<tr>
<td>Potassium</td>
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</tr>
<tr>
<td>Calcium</td>
<td>0.5%</td>
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<tr>
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</tr>
<tr>
<td>Magnesium</td>
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</tr>
<tr>
<td>Iron</td>
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<tr>
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<tr>
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<tr>
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</tr>
<tr>
<td>Copper</td>
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<tr>
<td>Barium</td>
<td>0.001%</td>
</tr>
<tr>
<td>Titanium</td>
<td>0.001%</td>
</tr>
</tbody>
</table>

Respectfully submitted,

All reports are submitted as the confidential property of clients. Authorization for publication of our reports, conclusions, or extracts from or regarding them is reserved pending our written approval as a mutual protection to clients, the public and ourselves.

(See statements on reverse side regarding qualitative spectrographic examination)
REPORT OF QUALITATIVE SPECTROGRAPHIC EXAMINATION

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<tr>
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<tr>
<td>Boron</td>
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</tr>
<tr>
<td>Titanium</td>
<td>0.001%</td>
</tr>
<tr>
<td>Copper</td>
<td>0.001%</td>
</tr>
<tr>
<td>Barium</td>
<td>Trace</td>
</tr>
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</table>

Respectfully submitted,

CHEMISTS AND ENGINEERS

All reports are submitted as the confidential property of clients. Authorization for publication of our reports, conclusions, or extracts from or regarding them is reserved pending our written approval as a mutual protection to clients, the public and ourselves.

(See statements on reverse side regarding qualitative spectrographic examination)
The property was visited early in 1951 by A.L. Flagg, in company with B.H. Fortner, 224 West Gurley Street, Prescott, co-owner with Bob Boyd of McFadden.

At that time there was almost no development work; a rather irregular hole not over 15-ft deep had been sunk on a segregation of lepidolite. Some fragments of spodumene were found in the perimeter of the hole. On the surface about 50-ft SW of this hole there were indications of beryl, i.e., two small xls less than an inch long.

Shallow trenching at irregular intervals had been done to the south covering a distance of about 1200-ft. North of the hole two or three trenches revealed nothing.

Since that time a considerable amount of stripping has been done. At the south end, as of the first visit, a shaft has been sunk. The depth of approximately 30-ft was reached. From the bottom a short crosscut was started easterly and continued for about 20-ft.

About 15-ft below the collar of the shaft a strong foot-wall was encountered with a dip of about sixty-five to seventy degrees. On this foot-wall is a streak of solid quartz, about 30-inches, reported to carry over 90% silica.

To the east of the quartz streak a zone of crushed spodumene, with incomplete outlines of rather large crystals, extends about eight feet. To the east is a band of undetermined width of amblygonite. Lepidolite occurs also in rather definite segregations.

From what information as can be gathered from the shaft and stripping operations it seems reasonable to expect a productive zone of forty feet in width throughout which the several lithia bearing minerals are definitely segregated which might permit selective mining.

The hanging-wall of the dike has not been identified positively. More work in the crosscut at the bottom of the shaft, or at a deeper level, would reach that wall.

In addition to the lithia minerals, bismutite and columbite have been found in small quantities but nothing can be determined as to the abundance of distribution.

The present indications warrant a much more extensive exploration program.
Mr. E. H. Fortner,
224 W. Gurley St.,
Prescott, Ariz.

Dear Mr. Fortner:

I wish to report that I brought the rock specimen you gave me, to be tested for beryl, to the Arizona Bureau of Mines for identification.

Mr. Robert O'Haire, mineralogist, tested the material under the spectroscope; Mr. R. T. Moore, geologist and mineralogist tested the material under microscope; and George Roseveare, mineralogist and metallurgist also assisted in the identification tests.

All the above mineralogists reported that they found no trace of beryl in the sample. They reported that the bluish tinted material, making up the greater part of the sample, was a sodium aluminum silicate, and could be called soda-orthoclase, or albite. They reported a large amount of sodium and aluminum, no potassium, a slight trace of calcium and lithium, and no beryl.

I am sending our Dept. of Mineral Resources office in Phoenix your description of the property, and also informing them that you wish to have a field examination of the property by one of the department's field engineer in the very near future. I also mentioned your request for information on upgrading lithium ores.

I am also enclosing a Mine Owners Report Blank, which you may fill out and send to Department of Mineral Resources, Mineral Building, Fairgrounds, Phoenix, Ariz., if you wish to submit more complete information on your property.

Yours very truly,

Axel L. Johnson,
Box 5047,
Tucson, Arizona.
March 22, 1957

BOYD PROPERTY -- Maricopa County

10-12 Miles S of Wickenburg.

Under lease to Fortner of Prescott.

LITHIUM
DEPARTMENT OF MINERAL RESOURCES
STATE OF ARIZONA
FIELD ENGINEERS REPORT

Fortner-Boyd Lithium Mine
Maricopa
Yavapai County, Vulture District

Date November 26, 1957

Engineer Lewis A. Smith

Subject: Owners Report

Location: Sec. 17, T6N, R5W. 12 miles SW of Wickenburg

Agent: B. H. Fortner, 224 W. Gurley Street, Prescott, Arizona

Property: The property consists of 14 claims.

Development and Geology: The mine consists of a main pegmatite vein or dike, 2000' long and 12 feet wide in granitic rocks and schist, and several lesser pegmatites.

The principal minerals are amblygonite, lepidolite, mica, spodumene, albite feldspar, muscovite and some rare earths (beryl, tantalum, columbite and a few suspected rare constituents as shown by the spectograph). The beryl, in a few spots, is white and massive, but in others it is in stringers in the Albite. The pegmatites strike nearly south and are mainly vertical. Most of the main dike is on two claims.

The stringer beryl runs 12% BeO. An examining engineer reported that the material would best be beneficiated by means of flotation after hand sorting the larger segregations.
FORTNER & BOYD LITHIUM PROPERTY:

LOCATION: 12 miles south west of Wickenburg,

MINERALS: Spodumene, Ambilgonite, Lepidolite.
Beryllium, Tantalum (Microlite) Bismuth.

LITHIUM PEGNATITE DIKE: about 2000 Ft in length
and average about 40 Ft. wide.

Soda feldspar predominant, lithium zone 12 to 15 Ft.,
on footwall side, mostly spodumene and ambilgonite,
large bodies of soda feldspar carrying beryllium.

A considerable amount of tantalum is found in the
lithium zone.

Our problem: concentrating the beryllium and
tantalum.

DEVELOPMENT: shaft 30 Ft., two open cuts, over­
burden removed by bull dozer full length of dike.

B.H. Fortner,
224 W. Gurley St.,
Prescott, Arizona.

Telephone, 270-W.
Mine: Lucky Mica

District: Vulture

Subject: Brief Examination

Owner: Bert Boyd, Wickenburg, Ariz.

Location: Approximately 6 miles SW of Wickenburg

Status: Idle

Development: Numerous pits exposing a pegmatite body several hundred feet long and varying width. One shaft, newly timbered, about 50' down and a crosscut about 20' long are the extent of the underground workings. About 50 tons of lepidolite is stockpiled.

Geology and Mineralization: The ore body is a coarse pegmatite of large size in a schist. Large segregations of lepidolite and other lithium minerals containing tens to hundreds of tons were noted. Spodumene "logs" up to 6" in diameter and several feet long associated with amblygonite were common. Beryl was also present. Other rare minerals of value were reported by the owner.
DEPARTMENT OF MINERAL RESOURCES  
State of Arizona  
MINE OWNER'S REPORT

Date: April 8, 1958

1. Mine: Fortner & Boyd Lithium Mine

2. Location: Sec. ............. Twp. ............. Range ............. Nearest Town . Wickenburg. Distance . 12 Mi.  
   Direction: southwest Nearest R.R. . Wickenburg Distance . 12 Mi.  
   Road Conditions: good

3. Mining District and County: Vulture, Maricopa

4. Former Name of Mine: same

5. Owner: R. H. Fortner
   Address: ..................................

6. Operator: 
   Address: ..................................

7. Principal Minerals: Lithium (Spodumene, Lepidolite, Amblygonite, Beryl) 
   Columbium-Tantalum


9. Type of Surrounding Terrain: flat with rolling hills

10. Geology and Mineralization: Pegmatite, vast quantities of soda spar 
     very little quartz, lithium in zones, usually about 12 Ft. wide 
     spodumene and amblygonite in same zones, near the foot wall 
     lepidolite nearer center of dike, country rock schist.

11. Dimension and Value of Ore Body: Pegmatite lithium dike is about 40 Ft. 
     wide and about 2000 Ft. in length, ore body exposed by removing 
     overburden with bull dozer from one end to the other and open 
     cuts at various places, value un determined.

Please give as complete information as possible and attach copies of engineer's reports, shipment returns, 
maps, etc. if you wish to have them available in this Department's files for inspection by prospective 
leasors or buyers.
12. Ore "Blocked Out" or "In Sight": Just what can be seen from open cuts and in shaft, which with out much doubt shows a few hundred Tons.

Ore Probable: Wagon drilling shows the ore body extends 110 Ft. from end to end, this was the depth the drilling extended, indications are that the ore body goes to a great depth.

13. Mine Workings—Amount and Condition:

<table>
<thead>
<tr>
<th>No.</th>
<th>Feet</th>
<th>Condition</th>
</tr>
</thead>
<tbody>
<tr>
<td>Shafts one</td>
<td>35</td>
<td>good, gallos frame in place</td>
</tr>
<tr>
<td>Raises</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Tunnels one</td>
<td>20</td>
<td>good</td>
</tr>
<tr>
<td>Crosscuts one</td>
<td>15</td>
<td>good</td>
</tr>
<tr>
<td>Stopes</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

14. Water Supply: none

15. Brief History: This property has been leased with option two or three times with little development work done, the wagon drilling was done by the Arizona Continental Uranium Co. 205 E. Camelback, Ed. Phoenix, Arizona. They reported that the ore body was satisfactory, but they had no way of processing the ore economically.

16. Remarks: We believe that there is sufficient quantities of beryllium and tantalum to operate profitably with out the lithium. The property need some further development to determine the quantity of the various ores. There are thousands of tons of soda spar in sight that might be processed profitably.

17. If Property for Sale, List Approximate Price and Terms: will lease with option to purchase with 10% Royalty to apply on purchase price of $100000.00 or cash price of $25000.00 with 2% perpetual Royalty.

18. Signature: [Signature]
FIELD ENGINEERS REPORT

Mine: Boyd Property
District: Yavapai County
Date: Oct. 21, 1964
Engineer: Axel L. Johnson

Subject: Field Engineers Report. Information from Floyd Hanly (at Phoenix office)

Location: North of Wickenburg.

Owners: Floyd Hanly, 835 E. Mitchell Drive, Tucson, and Paul Goff of the same address. The property was purchased from Mr. Boyd, the previous owner.

Number of Claims: 3 unpatented claims.

Principal Minerals: Lithium ores -- amblygonite, spodumene, and lepidolite.

Present Mining Activity: None

Geology & Mineralization: A pegmatite dyke, 35 to 100 ft. wide contains the lithium minerals, with a small amount of beryl. The pegmatite dyke outcrops in a number of places, and, in other places is covered with a small amount of alluvial fill up to a maximum of 15 ft.

Ore Values: Mr. Hanly reported a lithium content of from 3.0 to 3.5%.

Ore in Sight: Mr. Hanly claims that 2,000,000 tons of lithium ore has been blocked out by drill holes, drilled by Consolidated Uranium Co. of Canada.

Review of Recent Operations: Mr. Hanly reports that Consolidated Uranium Co. of Canada drilled the property about 9 or 10 years ago. 75 Wagon drill holes were drilled to an average depth of 187 ft., and the drill holes sampled.

Proposed Plans: Mr. Hanly and Mr. Boyd wish to sell the property to some operating company.

Additional: Field engineer will try to obtain the location of the property from the owners by calling at their residence at 835 E. Mitchell Drive, Tucson. They have no telephone.