



## **CONTACT INFORMATION**

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Arizona Department of Mines and Mineral Resources Mining Collection

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ARIZONA DEPARTMENT OF MINES AND MINERAL RESOURCES AZMILS DATA

PRIMARY NAME: SUN VALLEY MINE

ALTERNATE NAMES:

BAKER URANIUM  
BEMCO MINING COMPANY  
MAGGIE MINE  
MAGGIE BAKER

COCONINO COUNTY MILS NUMBER: 131

LOCATION: TOWNSHIP 39 N RANGE 6 E SECTION 6 QUARTER W2  
LATITUDE: N 36DEG 43MIN 00SEC LONGITUDE: W 111DEG 47MIN 41SEC  
TOPO MAP NAME: EMMETT WASH - 15 MIN

CURRENT STATUS: PAST PRODUCER

COMMODITY:

URANIUM  
GEMSTONE PETRIFIED WD  
MOLYBDENUM  
RHENIUM

BIBLIOGRAPHY:

ADMMR SUN VALLEY MINE FILE  
PETERSEN, R., HAMILTON, J. & MYERS, A., ECON.  
GEO. VOL. 54, P. 254-267  
HICKS, C., ADMMR MOLY OCC. MIN. RPT. 3, P. 15  
KING, R., AZBM BULL. 180, P. 235  
PEIRCE, KEITH, WILT, AZBM BULL. 182, P. 218  
USBM CRIB PRINTOUT W016026  
AEC PRELIM.REP. 172-479 P. 73

EMMETT WASH QU  
ARIZONA-COCONI  
7.5 MINUTE SERIES (T

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429

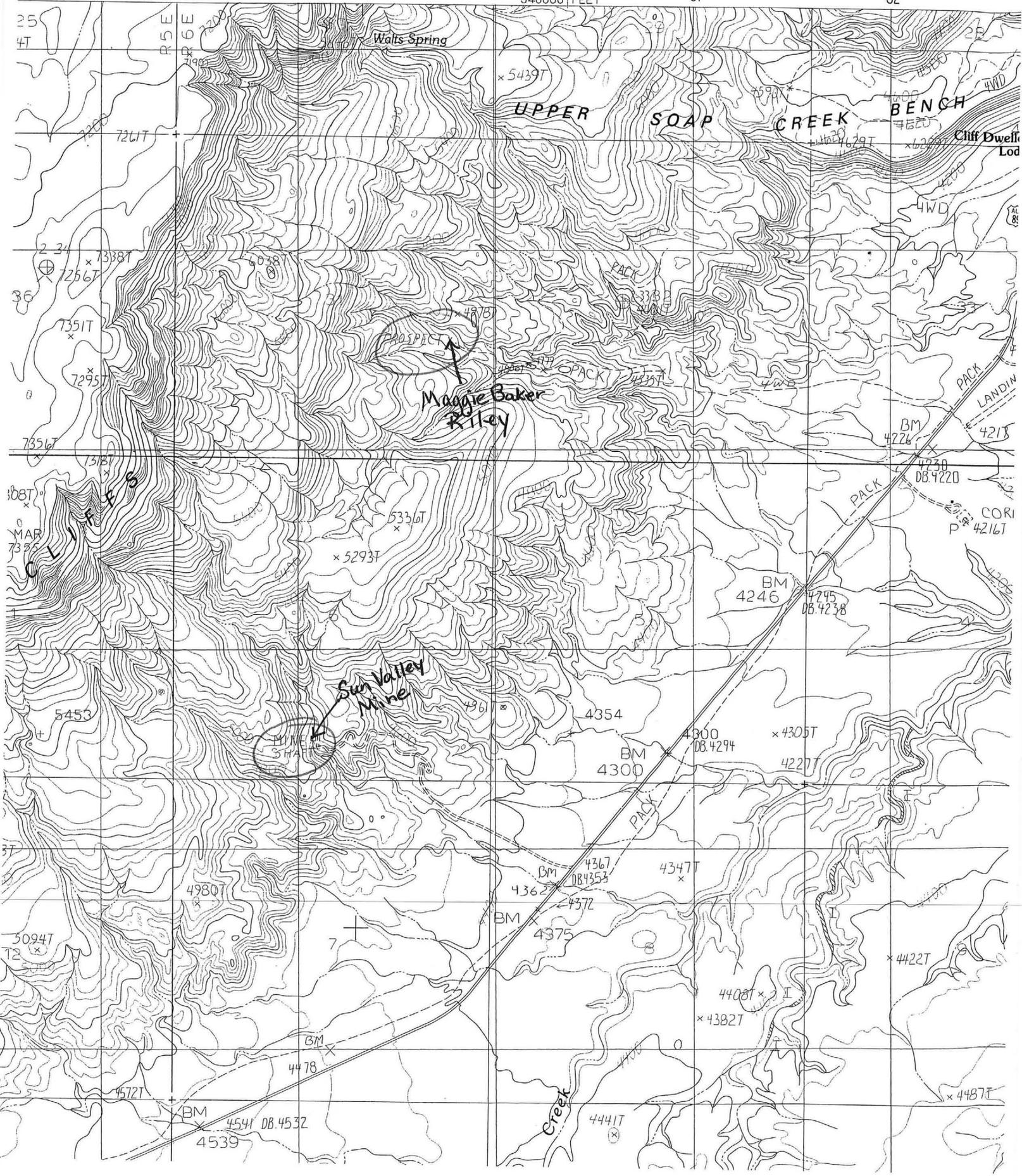
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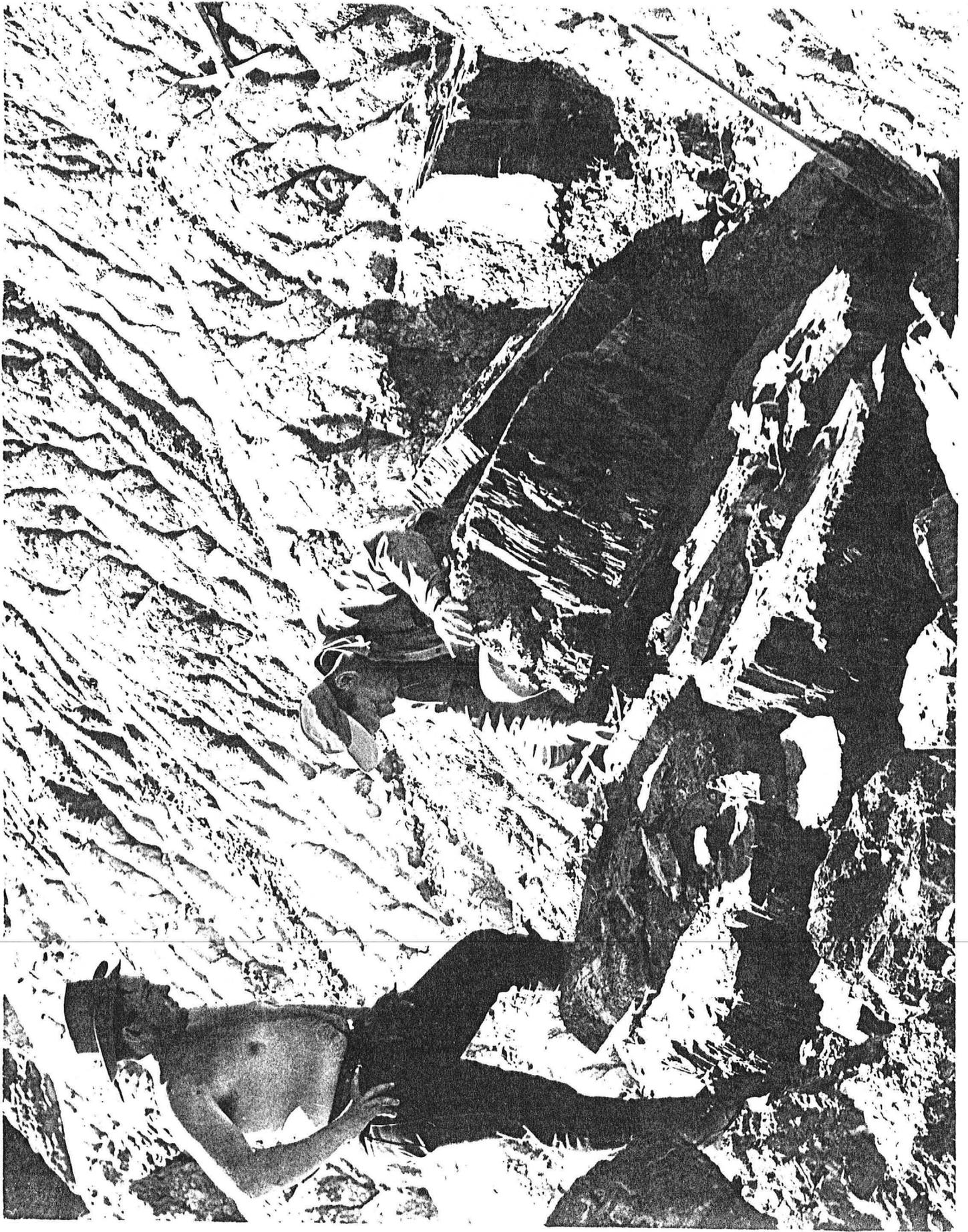
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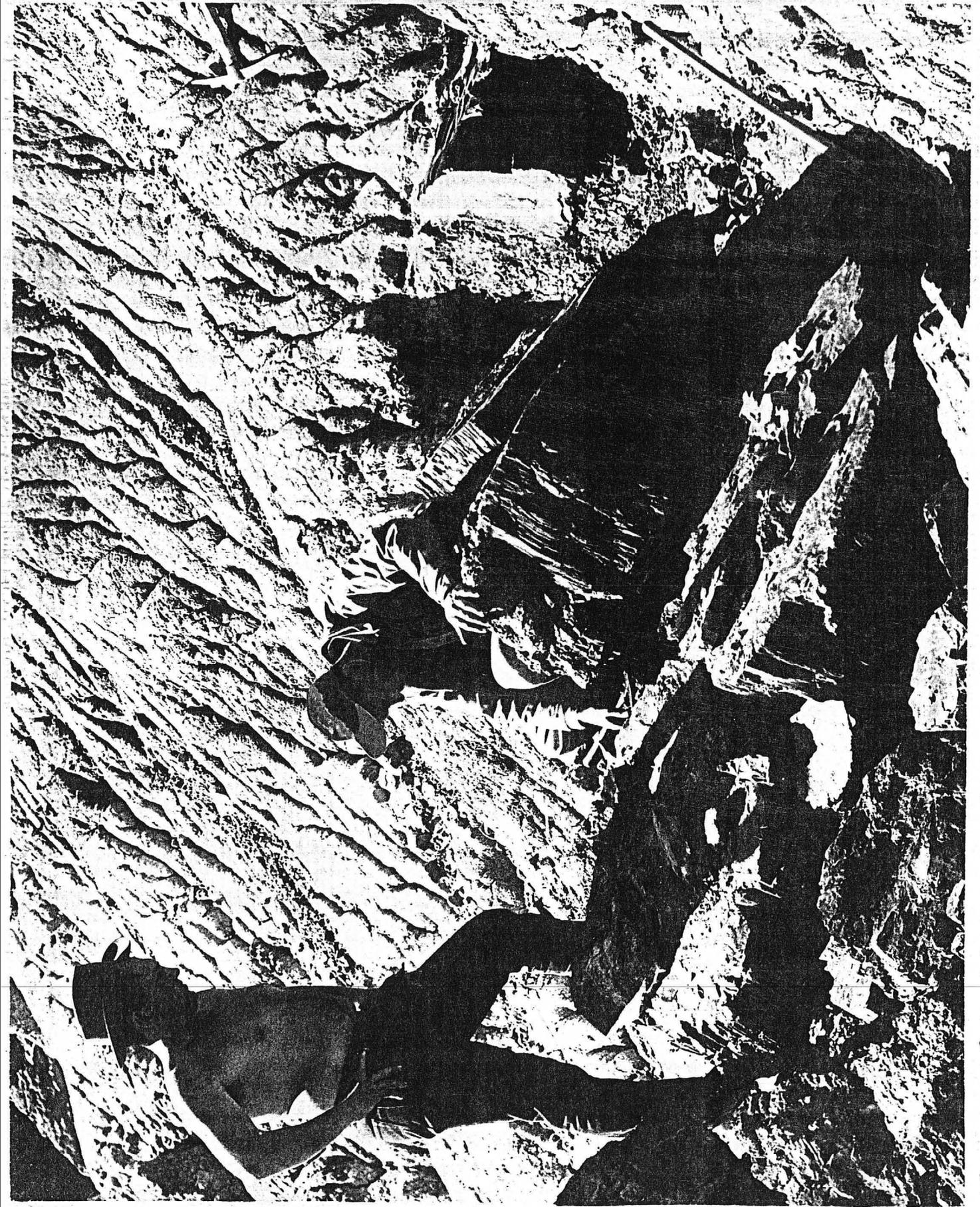
432



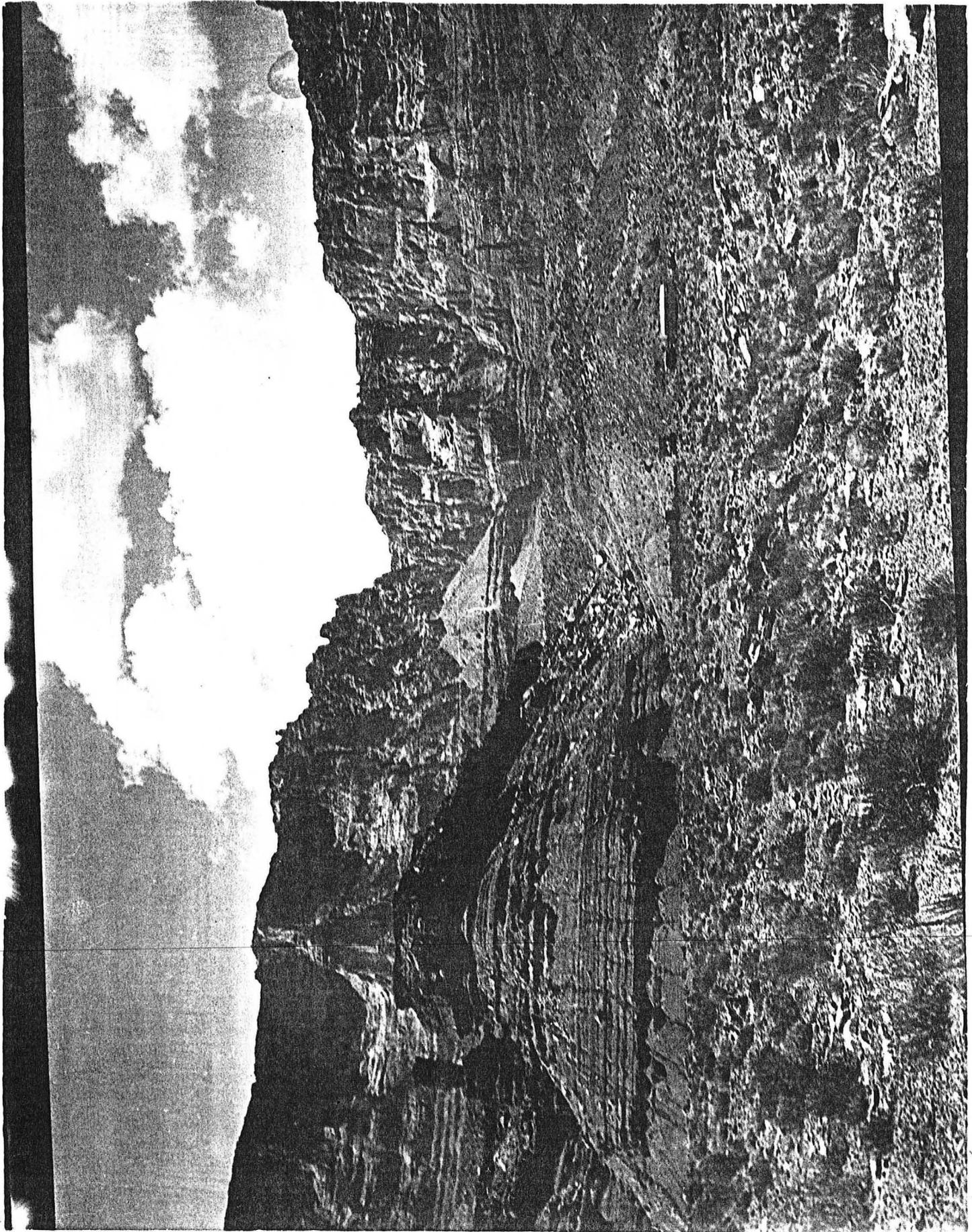


1A-181-85 LARRY KAPLEN CH. DANNING  
SAN YACKEY MINE

1949

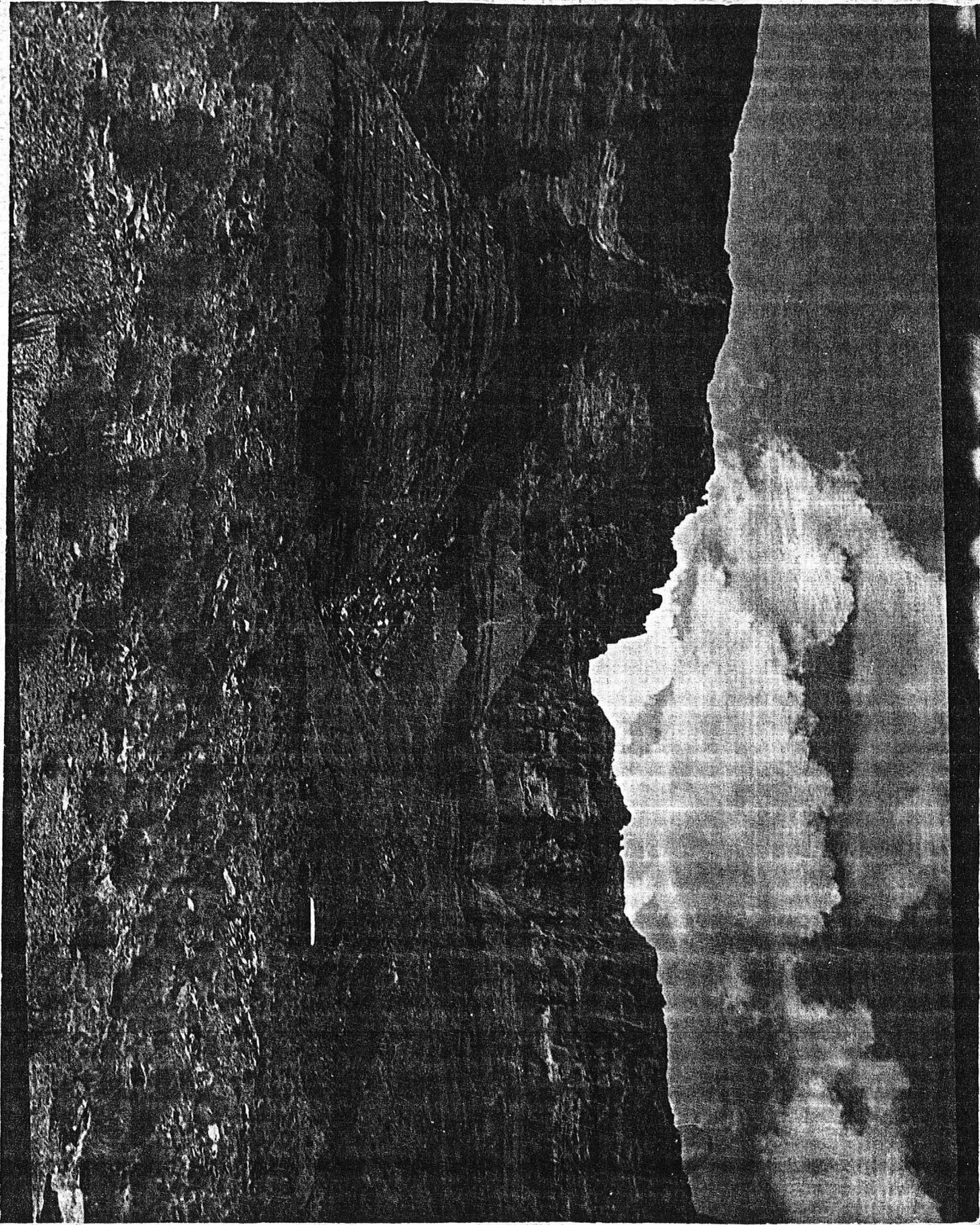


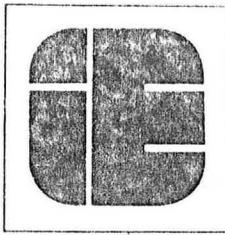
RILEY BAKER  
A CHS. DUNNING 1952



1949

A-181-86





# INTERMOUNTAIN EXPLORATION COMPANY

FROM 1975 ANNUAL REPORT

P.O. BOX 473  
BOULDER CITY, NV 89005

## OFFICERS AND DIRECTORS

**RICHARD V. WYMAN, President and Treasurer.** PH.D. in Geological Engineering, Registered Engineer, Chairman of Department of Engineering at University of Nevada, Las Vegas. Twenty-seven years of experience in geology, mining engineering and management in U.S. and Peru.

**DONALD R. MCGREGOR, Vice President.** B.S. in Mining Engineering, University of California. Registered Engineer. Thirty-five years experience in mining engineering and management. Mining Manager for Intermountain.

**ANNE F. WYMAN, Secretary.** M.S. in Geology, University of Michigan. Assistant Professor of Geology at University of Nevada, Las Vegas. Director of Intermountain since 1959.

**ROBERT F. PRITCHETT, Director.** B.S. in Geology and M.S. in Mining, South Dakota School of Mines. Mining engineer with Reynolds Electric at Nevada Test Site. Formerly with Homestake Mining. Thirteen years mining and engineering experience.

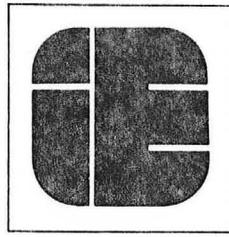
**DUDLEY L. PHILLIPS, Director.** Machinist 35 years. Employed by Titanium Metals Co., 23 years. Experienced prospector and lessor of Phillips Copper Mine, Nelson, Nevada.

Incorporated under the laws of the State of Utah  
February 1959

Authorized Capital 2,000,000 shares  
Shares Outstanding 1,312,210

Transfer Agent:  
Fidelity Transfer Co.  
318 Boston Bldg.  
Salt Lake City, Utah 84111

Cover — aerial photo showing  
diamond core drilling at  
Brockbank/Obester ore  
discovery in Comstock Gold  
Exploration Ventures property.



**INTERMOUNTAIN EXPLORATION COMPANY**  
ANNUAL REPORT 1975



Mrs. Bertha [redacted], a pioneer in the Eldorado Canyon District, a resident of Nelson, and principal owner of Eldorado Empire and Gresh Mines, died in December at the age of 92. She was a good friend and an inspiring woman.

**4. White Basin Saline Prospects, Clark County, Nevada (60% Intermountain)**

Applications for 1280 acres of sodium prospecting permits were made in September 1972. These have never been acted upon by the Bureau of Land Management, whose policy appears to be to discourage all mining and mineral activity.

Assessment work on 10 gypsum claims was accomplished by trenching to explore and sample part of the 10 million ton deposit and to prospect for colemanite, a calcium borate.

**5. Juno and Hercules-Badger Mines, Chloride, Arizona (100% Intermountain)**

In 1975 we managed to reopen the collar of a 600 foot shaft on the Juno, which had caved in 1901. Present plans are to repair the collar to give access to the lower levels of the mine for exploration.

**6. Sun Valley Mine, Marble Canyon, Arizona (100% Intermountain)**

We have leased the Sun Valley uranium-rhenium mine to Western Nuclear corporation, a subsidiary of Phelps Dodge Corp. We received \$2,500 down in advance royalty, and are receiving \$200 per month. Each year the minimum royalty increases until it reaches \$1000 per month in 7 years. Royalty is 7% of the gross sales price against a purchase price of \$1 million. The purchase price escalates with the cost of living index. The lessee may drop the lease, but is committed to minimum assessment work to hold the property, with a minimum of \$25,000 in exploration drilling.

During 1975, much of the drilling commitment was completed. Two uranium holes were found, one of which assayed 1%  $U_3O_8$  and one 0.25%  $U_3O_8$ . No rhenium assays have been reported to us.

**7. South Utah Mines Group, Milford, Utah (100% Intermountain)**

Essex International ceased operations in Milford in 1975, returning the lease to Toledo Mines Co. Toledo has continued to make the minimum monthly payments to Intermountain. However, the exploration of \$20,000 per year required in the lease was not performed in 1975. The Toledo Mines Co. management is negotiating with Intermountain management for a cash settlement in order to keep their lease.

**8. Intex Coal Mine, Huntington Canyon, Utah (75% Intermountain)**

Intermountain contracted to sell the Intex Mine in 1974 because of difficulties in obtaining financing. In 1975, we received payments totalling \$110,280 representing Intermountain's share of the proceeds of the sale, with the purchase price of our interest being \$937,500 plus 8½ percent interest on the unpaid balance. Payments are being received at the rate of \$22,357 per month, which covers principal and interest. The mine will be paid out over a four year period from August, 1975.

**9. Red Hill, San Bernardino County, California (100% Intermountain)**

The Red Hill copper-molybdenum prospect was explored by the company in the early 1960's. We are fortunate to have acquired this reserve of open pit ore, 0.7% Cu, 0.30% Mo, for our inventory of future milling ores. The property also has prospects for deeper underground ore of a similar type. During 1975 our work consisted of dozer trenches for assessment work, opening up a western vein zone not previously explored.

**10. Madison Wildcat Oil Prospect, Gallatin County, Montana (43% Intermountain)**

During 1975, Intermountain purchased a 43% working interest in leases covering 6,680 acres of a Federal Oil and Gas Lease in southwestern Montana. During the year, 5,480 acres were added to this lease block, bringing the total to 12,160 acres.

Negotiations are now underway with an independent oil company to explore this property. The principal objective would be to test the Ellis sandstone and the Madison limestone for oil and gas possibilities. Both formations are good producers in Montana and Wyoming. Field geological and geophysical work is planned during the spring and summer months.

SUN VALLEY URANIUM MINE

11-11-71



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SUN VALLEY MINE - COCONINO COUNTY - VERMILLION CLIFFS

Weekly Report - Travis P. Lane

5-19-59

Interviewed the proprietor of Vermillion Cliffs Lodge re the Sun Valley mine operations of Bemco Uranium Co. The company terminated work last November and the property has reverted to the original owner. There is no present activity.

DEPARTMENT OF MINERAL RESOURCES

STATE OF ARIZONA

FIELD ENGINEERS REPORT

Mine Sun Valley  
Vermillion Cliffs, Yavapai Co.  
District ~~Cochise~~ Yavapai Co.

Date October 10, 1958

Engineer Travis P. Lane

Subject: Visit

The property comprises the Sun Valley group of claims (4), and the Jay Bird group (38). It is located in the hills at the base of the Vermillion Cliffs Range and is about 13 miles west from Navajo Bridge. The property is owned by Upetco. The operator, a limited partnership, is Bemco Mining Co. Address: c/o Leo L. Chase, Apple Valley, Victorville, Calif. Ralph Haines is superintendent. Mailing address: Navajo Bridge.

The mine was visited on May 20th of this year (see the writer's Field Trip Report of that date), and again on Sept. 10th. At the time of the first visit drifting was in progress from the bottom of a 45' shaft toward an area where a cluster of drill holes had indicated an ore body estimated at 5000 tons, assaying 0.24% U<sub>3</sub>O<sub>8</sub>. The drift had a short distance to go to intersect the ore. At the time of the most recent visit it was learned that the results of the development were disappointing -- no ore was encountered where expected -- and after a hundred feet or so of additional exploration the mine was shut down. Early in September, after a shutdown of about 2 months, it was decided to resume work. However, heavy storms had caused flooding of the workings and at the time of this visit Mr. Haines and another man were preparing to install a pump and commence a cleanout job to be followed by extension of the existing development faces.



Present Operations Drifting, on 45' level ~~from~~  
from vertical shaft, toward drilled area.  
Drift is in 195' with 65' to go.

New Work Planned Continue drift to objective  
and mine and ship ore to Rare Metals Corp.  
Mill at Tuba City (85 mile haul). DMEA  
application pending, to drive 650' and  
drill Long Hole 2000'.

Misc. Notes No ore exposed at present in  
drift - only "showings."

Property has had 8000' drilling. Estimates  
reserve at 5000 tons 0.24%  $U_3O_8$ .

Above information supplied by Phil McCrary



STATE OF ARIZONA  
DEPARTMENT OF MINERAL RESOURCES  
MINERAL BUILDING, FAIRGROUNDS  
PHOENIX, ARIZONA

May 20, 1958

To: Frank P. Knight, Director

From: Travis Lane, Field Engineer

Subject: Weekly report for week ending May 17, 1958

Monday Office details, active mine list and files.

Tuesday Conferred with Jack and Arthur Still in Prescott re status of mines in the region. Drove to Fredonia for ASMOA Conference. Only "Elendle" Jensen was in attendance. He reported that no mining work was in progress in the area. Mr. Jensen supplied the following information re the Hack's Canyon Uranium Mine. The property is owned by a partnership composed of Jensen and Pierson of Fredonia, Ray Pointer of Safford and the G. C. Howard Estate of Phoenix. The owners operated for a time in 1951-1952, and shipped approximately 1100 tons of .20 U<sub>3</sub>O<sub>8</sub> ore. Then Pointer leased from the other partners and performed some development, and made a small production. Next the property was leased to Wasatch Mining Co., who leased to U-rainbow Company. Each shipped about 50 tons of ore. The State Mine Inspector forced a shutdown of U-Rainbow, and when the company failed to correct unsafe working conditions and discontinued operations, the owners sued and after 3 years litigation recovered the property (in 1955). Rare Metals optioned the mine and drilled 6 holes (maximum depth 640') and relinquished in early 1958. At present Western Gold and Uranium Co. has a verbal option and is planning to make an economic evaluation. The road to the property is now impassable. The mine has been examined in the past by DMR and rather complete reports are available in the Department files.

Wednesday Stopped at Vermillion Cliffs and inquired re the Sun Valley Mine (formerly called Maggie Baker) now being actively developed by Bestco Mining Co. of Los Angeles. Phillip H. McCrary is manager, and Ralph Haines is superintendent. The mine is located 1 1/2 miles by road north from a point on Highway 89, 12 miles west of Navajo Bridge. The steep dirt road was too wet to reach the mine and an appointment was made to return next day.

Visited the Copper Mine on White Mesa, 22 miles southerly from Page. The property, formerly operated by the Mardin Company and more recently by Able Mining Co., was idle. Returned to Vermillion Cliffs via the Gap and Navajo Bridge.

Thursday Visited the Sun Valley Mine (noted above). Drifting was in progress from a 45 foot level in a recently completed shaft. The objective is a cluster of holes said to indicate a body of about 5,000 tons of .24%  $U_3O_8$  ore. The drift was in 195' with about 65' to go. The property comprises the Sun Valley Claims 1 to 4, and the Jay Bird Claims 1 to 38. The mine is working 5 men. These people have applied for and expect DMEA assistance for further development.

Drove to Cameron and discussed activity in the area with Glenn Green, Supt. at the Jack Daniels Mine near Cameron, for Marcy-Shenandoah Corp. (formerly Marcy Exploration Co.) The mine has produced some 38,000 tons of ore and expects to exhaust its reserves in June with estimated shipments of about 1,000 tons for that month. Grade of ore .225%  $U_3O_8$ , average thickness 5 feet; and waste to ore ratio in the pit has been roughly 2 $\frac{1}{2}$  to 1. The working force is 6 men.

Visited the Tuba City mill and discussed active mines and recent shippers with Mr. Bunke, Manager for Rare Metals Corp. Returned to Cameron and visited Jim McFarland, Mine Superintendent for Rare Metals. Drove to Flagstaff and met Page Blakemore and arranged with him to cover the Cameron area next day.

Friday Inspected all independent active properties in Cameron area and some of the more important workings of Rare Metals Corp. in the company of Blakemore. Blakemore, in partnership with Steinberger as the Cameron Mining Co., conducts an engineering service and mining contract business. Blakemore does some mining for his own account, and Steinberger also conducts a contract drilling business for his own account. Checked the Department's active mine list, dated February 15, with Blakemore and made deletions, changes and additions thereto, in accordance with information furnished by him. Returned to Phoenix.



STATE OF ARIZONA  
DEPARTMENT OF MINERAL RESOURCES  
MINERAL BUILDING, FAIRGROUNDS  
PHOENIX, ARIZONA



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# COLORADO PLATEAU URANIUM ORE PROJECT

AMERICAN SMELTING AND REFINING COMPANY, ORE PURCHASING AGENT FOR  
UNITED STATES ATOMIC ENERGY COMMISSION

*Baker*  
*W. W. W. W.*

Receiving Station Monticello Grand Junction, Colorado July 6, 1949  
 Liquidation No. 847 Lot No. 1317 Shippers Lot No. \_\_\_\_\_  
 Bought of Wiley Baker A.E.C. License No. F 458  
 Address Cameron, Arizona  
 Type of Ore Carnotite Date Received 6/24-27/49  
 Mining Claim Cliff Canyon Mining District House Rock Valley Pile No. 9

Lot No.	Wet Weight Pounds	H <sub>2</sub> O	Dry Weight Pounds	SETTLEMENT ASSAYS			CONTENTS POUNDS		
				U <sub>3</sub> O <sub>8</sub>	V <sub>2</sub> O <sub>5</sub>	Ca CO <sub>3</sub>	U <sub>3</sub> O <sub>8</sub>	V <sub>2</sub> O <sub>5</sub>	Ca CO <sub>3</sub>

1317	9170	0.20	9152						
	10880	0.50	10527						
	<u>18780</u>	<u>1.00</u>	<u>19855</u>	.28	.06	1.2	54.75	11.75	254.64

<u>U3O8</u>	<u>Per lb.</u>	<u>Per Ton</u>	<u>Short Tons</u>	<u>Total Value</u>
.28% = 5.6 lbs. @	\$2.00	\$11.200	9.7765	\$ 109.50
Development allowance 5.6 lbs. @	.50	2.800		27.37
Premium in excess of 4 lbs. per ton				
1.6 lbs. (5.6 lbs - 4 lbs = 1.6) @	.25	<u>.400</u>		<u>3.91</u>
<b>Total U3O8 payment</b>		<b>14.400</b>	<b>9.7765</b>	<b>140.78</b>
<b>Haulage allowance 100 miles @ 6¢ per wet ton mile</b>			<b>9.875</b>	<b><u>59.25</u></b>
<b>Total</b>				<b>\$200.03</b>
 <u>V2O5</u>				
.06% = 1.2 lbs. @	.51	.372	9.7765	<u>3.64</u>
<b>Total Gross Price</b>				<b>203.67</b>
<b>Deductions</b>				<b><u>-</u></b>
<b>Net Proceeds</b>				<b>\$203.67</b>

Correct LAT      Paid July 7, 1949  
 Checked WVM      Vo. No. 6-163  
 Approved HCGJ      Check No. 1353

I certify that I am the lawful owner or authorized Representative of the Lawful Owner, of the Ore described in this Settlement Sheet and have legal right to deliver the same to the Commission.

I certify that I hold the A. E. C. Source Material License numbered above.

I hereby transfer to the Commission, effective as of the date of delivery of the ore, all my right, title and interest in and to said ore.

I will accept the amount as shown above as "Total Gross Price" in full settlement, except for final quarterly adjustment for average V<sub>2</sub>O<sub>5</sub>-U<sub>3</sub>O<sub>8</sub> ratio, for sums due to me on account of the ore deliveries described herein.

-----  
Seller or Agent.

Buyers assays govern if Seller fails to submit his assays prior to acceptance of payment.  
 All rates paid are based on U. S. Atomic Energy Commission Published Schedules.

*Engineering and Mining Journal—Vol.156, No.4*



# RECORD

G INDUSTRY

FOR  
EIGHTY-THREE  
YEARS

Monday, August 9, 1972

\$10 a year, 25¢

U.S. DEPT. OF  
LABOR  
OFFICE OF  
INDUSTRIAL  
RELATIONS  
WASHINGTON, D.C. 20540



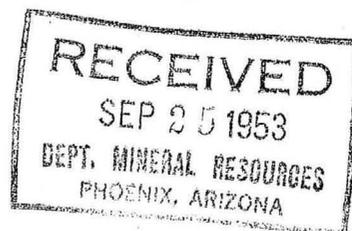
MINI WORLD /57

ARIZONA-NEW MEXICO BUILDER & CONTRACTOR - April, 1961

REFERENCE: See: AEC 172-479, p. 73, Jay Bird Claims,  
Sec. 6, T. 38 N., R. 6 E. In AEC files.  
Economic Geology, Vol. 54, 1959, p. 254-267

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF MINES

Southwest Experiment Station  
P. O. Box 4097, Univ. Station  
Tucson, Arizona



RADIOACTIVE SAMPLE REPORT

Sample Reference No. **UP-1271**

Date: **September 24, 1953**

Sample Submitted by: **Roger I. Manning, Director  
Department of Mineral Resources  
State of Arizona  
Mineral Building, Fairgrounds  
Phoenix, Arizona**

Name and Location of Property: **Maggie Baker claim,  
7 miles west of Navajo Bridge**

Nature of Sample: **Microscopic examination of the small black  
radioactive concretions shows that the mineral  
composition is hematite, carnotite, manganese  
oxides, uraninite, calcite and quartz.**

Analysis of Sample: **Radiometric test indicates this sample  
contains 18 percent  $U_3O_8$**

Remarks:

Signed   
for: **Carl Rampacek, Chief  
Process Development & Research Branch  
Metallurgical Division, Region IV**

October 5, 1953

✓  
Mrs. Maggie Baker  
General Delivery  
Williams, Arizona

Dear Mrs. Baker:

We submitted the samples of your radioactive material collected by yourself while Mr. Gemmill and I were examining the rest of your property to the United States Bureau of Mines, Tucson, Arizona for analysis and identification.

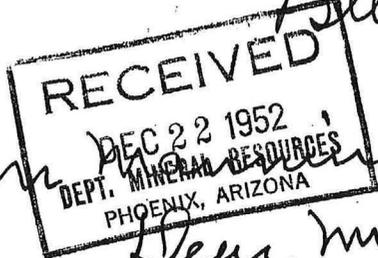
Attached hereto is a copy of their report to us. One of their metallurgists is very much interested in the occurrences of this material, and I would appreciate very much if you could give me a little information as to the thickness of the bed in which this is found and approximately the amount of this material per pound of rock.

Sincerely yours,

R. I. C. Manning,  
Director

RICM:lp

C  
O  
P  
Y



Ble. the Calif  
Dec 19. 52

Mr. Manning.

Dear Mr Manning:

You misunderstood me  
about the ore -  
What I want to know  
is how much  
.88 percent is a ton?  
How many dollars a  
ton - Also .17 percent a  
ton?

So thanks  
Mrs R Baker

December 22, 1952

✓  
Mrs. Riley Baker  
Route 1, Box 284  
Blythe, California

Dear Mrs. Baker:

In reply to your letter of December 19th regarding the value of your ore, according to information available to us the .89% ore would be worth approximately \$135.00 a ton fob a designated delivery point - the .17% approximately \$25.00. This price includes the various bonuses.

However, in order to be more certain and to find out just where you should figure on delivering your ore, I suggest you write to the United States Atomic Energy Commission, P. O. Box 270, Grand Junction, Colorado, sending them a copy of the analysis we furnished you and requesting that they give you an estimate of the value per ton.

With best wishes for the Holiday Season, I am,

Sincerely,

R.I.C. Manning,  
Director

RICM:lp

BAKER, Mrs. Riley (Maggie)  
Rte 1, Box 284  
Blythe, California

*(Ding Jackson)*  
*Flagstaff, Ariz.*

Uranium

Phone 04745 (10-4-52) Blythe

*Baker Uranium*

C  
O  
P  
Y

December 15, 1952

Y  
Mrs. Riley Baker  
Route 1, Box 284  
Blythe, California

Dear Mrs. Baker:

We were under the impression that we sent you a list of the various classifications placed on your rocks by the U. S. Bureau of Mines in Tucson. Apparently this has some how or other been misplaced, so we are enclosing herewith another copy.

Sincerely,

R.I.C. Manning,  
Director

Enc.

RICM:lp

C  
O  
P  
Y

October 28, 1952

✓  
Mrs. Riley Baker  
Route 1, Box 284  
Blythe, California

Dear Mrs. Baker:

The samples you expressed to us recently were forwarded to the U. S. Bureau of Mines at Tucson for analysis. Attached to this letter is a copy of their analysis and you will note that sample No. 1 shows very promising results. No. 1 is the black rock.

Immediately upon receipt of the analysis from the Bureau, I had a call from Mr. E. E. Thurbow of the Atomic Energy Commission at Salt Lake City, Utah, requesting information regarding the location and ownership of this property. He stated that he was sending two of his men to look over your property this morning. He gave such short notice that it was impossible for me to go with them; however, I would like to make the trip some time the latter part of this month.

I sincerely hope that you have a considerable tonnage of the material represented in Sample No. 1.

Very truly yours,

R.I.C.MANNING,  
Director

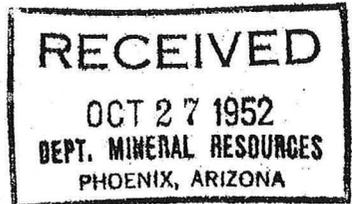
Enc.

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UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF MINES

Southwest Experiment Station  
P. O. Box 4097, Univ. Station  
Tucson, Arizona



RADIOACTIVE SAMPLE REPORT

Sample Reference No. UP-1111 Date: October 24, 1952

Sample Submitted by: R.I.C. Manning, Director  
State of Arizona  
Department of Mineral Resources  
Mineral Bldg., Fairgrounds  
Phoenix, Ariz.

Name and Location of Property: Samples submitted to Phoenix by Mrs. Riley Baker from a property located approximately 8 miles west of the Colorado River Bridge on Highway U.S. 89 in the Vermillion Cliffs

Nature of Sample: No. 1 Radiometric test indicates this sample contains equivalent to 0.88%  $U_3O_8$ . It is sandstone cemented with pyrolusite, clay and small amount of carnotite.

Analysis of Sample: No. 2 Radiometric test shows equivalent to 0.06%  $U_3O_8$ . Sandstone cemented with clay, calcite and limonite.

Remarks: No. 3 This shows equivalent to 0.17%  $U_3O_8$ . Sandstone cemented with limonite, clay and a small amount of carnotite.

Signed Carl Rampacek  
Carl Rampacek  
Supervising Metallurgist

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U. S. DEPARTMENT OF THE INTERIOR  
P. O. Box 4097, Univ. Station  
Tucson, Arizona

RADIOACTIVE SAMPLE REPORT

Sample Reference No.

UP-1111

Date: October 24, 1952

Sample submitted by:

R.I.C. Manning, Director  
Arizona Department of Mineral Resources  
Phoenix, Arizona

Name and Location of Property:

Samples submitted to Phoenix by Mrs. Riley Baker from  
a property located approximately 8 miles west of the  
Colorado River Bridge on Highway U. S. 89 in the  
Vermillion Cliffs

Nature of Sample:

No. 1 Radiometric test indicates this sample contains  
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Analysis of Sample:

No. 2 Radiometric test shows equivalent to 0.06%  $U_3O_8$ .  
Sandstone cemented with clay, calcite and limonite.

Remarks:

No. 3 This shows equivalent to 0.17%  $U_3O_8$ . Sandstone  
cemented with limonite, clay and a small amount of  
carnotite.

Signed

Carl Rampacek  
Supervising Metallurgist

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RECEIVED  
DEC 11 1952  
DEPT. MINERAL RESOURCES  
PHOENIX, ARIZONA

Blythe Calif.  
Dec 10 1952.

R.T.L. Manning  
Phoenix Ariz.

Dear Mr Manning -  
what I want to know  
what is the back rock  
that was .88 <sup>now</sup> of one per  
cent worth per ton?  
We have several till  
us but ever one had  
a difference - so please  
let me know thanks  
and with best wishes

Mrs Riley Baker  
Rt 1 Box 284  
Blythe Calif

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U. S. DEPARTMENT OF THE INTERIOR  
P. O. Box 4097, University Station  
Tucson, Arizona

RADIOACTIVE SAMPLE REPORT

Sample Reference No. UP-111

Date: October 24, 1952

Sample submitted by: R.I.C. Manning, Director  
Arizona Department of Mineral Resources  
Phoenix, Arizona

Name and Location of Property: Samples submitted to Phoenix by Mrs. Riley Baker from a property located approximately 8 miles west of the Colorado River Bridge on Highway U.S. 89 in the Vermillion Cliffs.

Nature of Sample: No. 1 Radiometric tests indicate this sample contains equivalent to 0.88%  $U_3O_8$ . It is sandstone cemented with pyrolusite, clay and small amount of carnotite.

Analysis of Sample: No. 2 Radiometric test shows equivalent to 0.06%  $U_3O_8$ . Sandstone cemented with clay, calcite and limonite.

Remarks: No. 3 This shows equivalent to 0.17%  $U_3O_8$ . Sandstone cemented with limonite, clay; and a small amount of carnotite.

signed:

Carl Rampacek  
Supervising Metallurgist

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October 7, 1952

Mrs. Riley Baker  
Route 1, Box 284  
Blythe, California

Dear Mrs. Baker:

In reply to your letter of October 4, it will not be possible for either myself or any one connected with the Department to visit your property this week.

I will try to make this trip myself, but it will have to be at some future date.

Please send us the samples as you planned and we can proceed with having an analysis made.

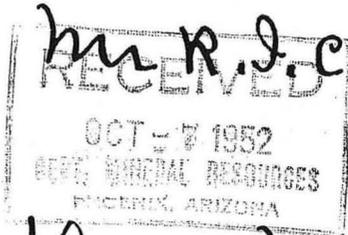
Sincerely yours,

R.I.C. Manning,  
Director

RICM:lp

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Blythe July.  
Oct 4 1952



Mr R. J. C. Manning  
Phoenixing

Dear Mr Manning,  
your letter  
came last evening  
and as we do not  
have that much of  
the ore here, I will go  
up Friday 10 and get  
you 5# of each kind  
If you could come up  
then and look it over  
it would be fine. Riley  
is working ever day  
only Sunday off and

Barbara<sup>2</sup> is in school  
To find us going on  
highway <sup>to Calif.</sup> to drive  
through town until you  
come to Ripley road there  
is a junction and we  
are the second ranch  
to the north or phone  
04745 and we will  
direct you

I will send you the  
one from Williams  
on my way back.

So thanks  
Mrs Riley Baker  
Rt 1 Box 284  
Blythe Calif.

November 26, 1952

Mrs. Riley Baker  
Route 1, Box 284  
Blythe, California

Dear Mrs. Baker:

I have your letter of November 21st and regret to say that I have as yet been unable to visit your property due to conditions beyond my control.

I think in view of the weather conditions that it would be much better to wait until spring before making the trip.

The Atomic Energy Commission representatives have not contacted us.

As to whether or not the size of the deposit could be determined without exploration work, I cannot advise you without first seeing it since there are so many factors involved that might affect the geiger counter or scintillometer survey such as depth of overburden, presence of other radio-active materials and so forth.

Sincerely yours,

R.I.C. Manning,  
Director

RIGM:lp

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Blythe Cal  
Nov 21 1952.



C. Manning.

Phoenix Ariz.

Dear Mr Manning

We have been wondering if you have made the trip up to the mine yet. or have you hear from the men from Salt Lake yet. We intend to open up that hole we started in the spring. Is there any way to tell how large a body of that black ore there is under the ground without digging?  
So thanking you I remain  
Mrs. Riley Baker

October 1, 1952

✓  
Mrs. Riley Baker  
Rte 1, Box 284  
Blythe, California

Dear Mrs. Baker:

Your nephew delivered to me on September 30th, the samples of ~~ore~~ you took from your property.

The black rock is very radio-active, but we were unable to identify the mineral. The small sandstone rock is the least radio-active of all, and in our opinion the mineral presence is carnotite. The small particles of clay are quite active, and perhaps could be classed in between the sandstone and the black rock as to uranium content.

To me, all of these samples are extremely interesting and much more promising than the petrified wood that you found on the same property several years ago as it is quite possible that this might lead to a commercial deposit of value whereas, apparently there are only a few logs of low uranium content in the area.

I would appreciate it very much if you could in some way send us about 5 lbs of each of the three materials in order that we might forward them to the Atomic Energy Commission for analysis. Perhaps we could arrange a visit to this property in the near future and assist in the taking of the samples.

When you reply, please give us information as to how we can contact you in Blythe should we be in that vicinity.

Sincerely yours,

R.I.C.Manning,  
Director

RICM:lp

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Dear Mr Manning!

When we were up to the mine the last time we dug down back from where that big tree was and I am sending you some of the clay and a black rock that we found. Will you put them on the giger and see how good they are and let me know. The deeper we dug the more uranium is in the clay

We are living at  
Blythe California  
for the winter

So with best wishes  
and thanks -

Mrs Riley Baker

Rt 1 Box 284

Blythe Calif.

ADDRESS REPLY TO:

GRAND JUNCTION EXTENSION  
DIV. OF RAW MATERIALS, NEW YORK OFFICE  
U. S. ATOMIC ENERGY COMMISSION  
P. O. BOX 270.  
GRAND JUNCTION, COLO.

UNITED STATES  
ATOMIC ENERGY COMMISSION  
GRAND JUNCTION, COLORADO

July 7, 1949

AND REFER TO: GJENY:LPG

Mr. Charles H. Dunning, Director  
Arizona Department of Mineral Resources  
Mineral Building, Fairgrounds  
Phoenix, Arizona

Dear Mr. Dunning:

The sample from the property of Riley Baker, Vermillion  
Cliffs, Arizona, which you sent to our New York Office,  
has been forwarded to this office for analysis.

Results of the analysis are as follows: 0.78% U3O8,  
0.12% V2O5, 0.90% CaCO3.

Very truly yours,

  
Wallace G. Fetzer, Chief  
Grand Junction Extension  
New York Raw Materials Office

ADDRESS REPLY TO:

GRAND JUNCTION EXTENSION  
DIV. OF RAW MATERIALS, NEW YORK OFFICE  
U. S. ATOMIC ENERGY COMMISSION  
P. O. BOX 270  
GRAND JUNCTION, COLO.

UNITED STATES  
ATOMIC ENERGY COMMISSION  
GRAND JUNCTION, COLORADO

May 18, 1949

AND REFER TO: GJENY:CAR

*Baker  
Museum*

Mr. C. H. Dunning, Director  
Department of Arizona Mineral Resources  
Minerals Building, Fairgrounds  
Phoenix, Arizona

Dear Mr. Dunning:

The chemical analysis on the sample of petrified log which you submitted has been received. It assays 0.33% U308 and 1.09% V205. Under the present buying schedule at the Monticello plant, the ore will have the following value per ton:

0.33% U308 = 6.6 lbs. x \$2.00 per lb.	= \$ 13.20
Premium, \$0.25 per lb. for each lb. U308 in excess of 4 lbs. = 2.6 lbs x 0.25	= 0.65
Development allowance at \$0.50 per lbs.	= 3.30
Total value of uranium	\$ 17.15
1.09% V205 = 21.8 lbs x \$0.31 per lbs.	= 6.76
Total value of ore at plant	\$ 23.91

Under the existing regulations of the Atomic Energy Commission, the results of the tests being made at Salt Lake City, Utah, can be made available only to the legal owner and then only after receiving definite proof of ownership of the property from which the sample was taken. Holders of unpatented claims may receive such information upon submission of a certified statement from the County Recorder that notice of location and intention to hold in lieu of a statement of assessment work have been filed by the owner requesting the information. Enclosed is copy of press release concerning submission of proof of ownership.

Very truly yours,

  
Wallace G. Fetzner, Chief

Encls:

1. Press Release

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF MINES  
SOUTHWEST EXPERIMENT STATION

*Morgan Baker*

~~WESTERN REGION~~  
Metallurgical Division

BOX 4097  
UNIVERSITY STATION  
TUCSON, ARIZONA

May 6, 1949.

Mr. Charles H. Dunning, Director  
Arizona Department of Mineral Resources,  
304 Home Builders Bldg.,  
Phoenix, Arizona.

Dear Mr. Dunning:

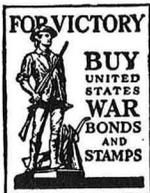
Herewith are analyses of the two uranium samples received from you by mail on May 3.

Samples	Assay, percent		
	<u>U<sub>3</sub>O<sub>8</sub></u>	<u>V<sub>2</sub>O<sub>5</sub></u>	<u>Cu(Total)</u>
Petrified wood having a carnotite coating; From Riley Baker property, 9 miles N.W. of Navajo Bridge in Vermillion Cliffs in Chinle Formation	0.63	0.20	0.48 (average of 4 determinations)
Copper-bearing Coconino sandstone, From A.F. Michleback property, 25 miles north of Williams.	0.10	Nil	6.31 (average of 4 determinations)

The sample of petrified wood appears to contain some autunite and metatorbernite as well as carnotite. The soft, black, acicular mineral deposited in some of the cracks is undoubtedly pyrolusite as qualitative tests showed considerable manganese. I assume that you have already submitted samples of the material to the Atomic Energy Commission for petrographic and radiometric analyses. We will be interested in knowing how our analyses compare.

If larger samples are available of these materials, we would be glad to make beneficiation tests to determine the grade and recovery of uranium concentrates.

May I offer congratulations on the favorable publicity your department has received for this new discovery. Feel free to call on us if we can be of further service.



Very truly yours,

*J. Bruce Clemmer*  
J. Bruce Clemmer, Chief  
Tucson Branch, Metallurgical Division