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ARIZONA DEPARTMENT OF MINES AND MINERAL RESOURCES AZMILS DATA

PRIMARY NAME: HARDSCRABBLE

ALTERNATE NAMES:

LA PAZ COUNTY MILS NUMBER: 269

LOCATION: TOWNSHIP 4 S RANGE 23 W SECTION 2 QUARTER N2
LATITUDE: N 33DEG 06MIN 41SEC LONGITUDE: W 114DEG 35MIN 58SEC
TOPO MAP NAME: PICACHO - 7.5 MIN

CURRENT STATUS: PAST PRODUCER

COMMODITY:

LEAD
SILVER
GOLD LODE
MOLYBDENUM
VANADIUM

BIBLIOGRAPHY:

AZBM FILE DATA
ADMMR HARDSCRABBLE GROUP FILE
ADMMR RED CLOUD MINE FILE
A.L. FLAGG VANADIUM RPT. BK VI & VIII
ADMMR "U" FILE V "NOT MAPPED"

MINERAL SPECIMEN FOR DEPARTMENT OF LIBRARY AND ARCHIVES

(Do not write in this space)

(Wrap each specimen separately, or place it in a substantial bag, by itself, with a number attached, identical with the number on this card.)

Ore _____

Cabinet _____

No. _____

Specimen No. _____, collected by Elgin B. Holt
Field Engineer

Name of ore Vanadinite

Operator None

Minerals contained Vanadium, Ag

Mine active or inactive inactive

Pb, Molybdenum

If inactive, when operated _____

Gangue calcite

Specimen presented by W. D. Riley

Depth at which taken 85

Date June 18, 1940

Approximate mineral content (in terms of average per ton)

Notes (Any general information regarding the history of the property.)

V = 2%, Ag 70%, Pb 15%, Mo 3 = 1%

Name of mine or claim _____

Group Hardscrabble

District Silver dist, Yuma Co

Location (distance and direction by highway from what town) _____

Owner of property E. E. Mills

If more space is desired for notes, use other side.

#54

Van

RD

SPECIMEN Van-3

Cabinet

Presented by W. D. Riley

Section

Collected by Elgin B. Holt

Shelf

Date received Sept., 1941

Class (principal mineral) Vanadinite

Name of mine or claim

Other minerals Silver, Lead, Molybdenum

Group Hardscrabble

District Silver

Gangue Calcite

County Yuma

Depth at which specimen taken 85 ft.

Location (distance and direction by highway
from what town)Approximate mineral content (in terms of
average per ton)

Quantity

Value \$

Mine active or inactive Inactive

V 2%
Ag. 7 oz.
Lead 15%

If inactive, when operated

Molybdenum 1%

Owner E. E. Mills

Operator

Notes:

DEPARTMENT OF MINERAL RESOURCES
STATE OF ARIZONA
FIELD ENGINEERS REPORT

Mine HARDCRABBLE GROUP

Date June 19, 1940

District Silver District, Yuma Co.

Engineer Elgin B. Holt,
P. O. Box 288,
Kingman, Ariz.

Subject:

SYNOPSIS REPORT

OWNERS: E. E. Mills & others. W. D. Riley, Agent, P. O. Box 1486, Yuma, Ariz.

METALS:

Vanadium, Molybdenum, Silver, Lead.

AREA & LOCATION:

Four claims, located in Silver District, about 58 miles by road North of Yuma and about one mile North of the Red Cloud mine. Last 28 miles of road in poor condition, but passable.

VEIN, Character of Ore:

Vein is 10 feet wide and is developed by an inclined shaft to depth of 85 feet. At bottom of shaft a drift has been run on vein 15 feet North. Gangue of vein is calcite, incrustated along cleavage planes by crystals of Vanadinite and Wulfenite.

AVERAGE TENOR OF ORE:

Mr. Riley states that average tenor of Hardscrabble ore is more or less as follows:

| | |
|---|----------|
| Vanadium (V2O5) ----- | 2.0% |
| Molybdenum (MoO3), approximately, ----- | 0.5% |
| Silver, per ton, ----- | 7.0 ozs. |
| Lead ----- | 15.0% |

ORE TONNAGE INDICATED:

As the vein is a true fissure, traceable for a long distance, it is believed if property could be developed by sinking the shaft to a depth of 500 feet and by running levels at 100-foot intervals, that sufficient ore could be developed to supply a 100-ton mill, over a long period of time.

WATER:

Water for milling could either be supplied from the Colorado River or by sinking on vein to a depth in excess of 500 feet; the vein dipping at an angle of 50 degrees. This statement is based on the fact that ample water for milling operations was found in the Red Cloud mine at a 45 degree inclined depth of 510 feet, in the main Red Cloud shaft. Also, the Hardscrabble vein intersects the Red Cloud vein.

REMARKS:

Property is recommended to anyone looking for a vanadium mine, on which to carry out further development work with a view to installing a mill.

for information write Mr. Riley

Yuma, Arizona, June 19, 1940.

To: J. S. Coupal, Director
From: Elgin B. Holt
Subject: Hardscrabble mine - Vanadinite

Owners: E. E. Mills & others. Agent, Walter D. Riley, P. O. Box 1486,
Yuma, Arizona.

Your attention is called to the Hardscrabble mine, which I have visited from time to time for a good many years. The owner, Mr. Mills, has done some new work in this property which has exposed a splendid showing of Vanadinite ore; his work consisting of a drift North on vein, 15 feet, from the bottom of an inclined shaft 85 feet deep.

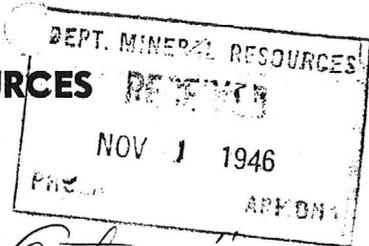
In short, this property is the best showing for vanadium, I have seen in my district. Suggest you put Mr. Riley in touch with VA-1, VA-2 & VA-3.

Card
Mr. Riley has an option on property and terms are reasonable.

E. B. Holt.
E. B. Holt.

cc - W. D. Riley.

DEPARTMENT OF MINERAL RESOURCES
State of Arizona
MINE OWNER'S REPORT



Date Oct 21 1946

1. Mine: HARDSCRABBLE GROUP
2. Location: Sec. _____ Twp. _____ Range. _____ Nearest Town Yuma, Ariz
Distance 53 miles Direction N.E. Road Condition bad
3. Mining District & County: Silver District Yuma Co.
4. Former Name of Mine: _____
5. Owner: Mr. Stewart
Address: Winterhaven, Cal.
6. Operator: not operating
Address: _____
7. Principal Minerals: Silver, Lead, Muffenite, & Vanadinite
8. Number of Claims: one Lode Placer _____
Patented _____ Unpatented
9. Type of Surrounding Terrain: mine is on level ground
10. Geology & Mineralization: _____
11. Dimension & Value of Ore Body: _____

12. Ore "Blocked Out" or "In Sight":

Shaft about 80 ft.
vein in bottom about 12 ft wide
Calcite vein.

Ore Probable:

not enough Development
to tell,

13. Mine Workings—Amount and Condition:

| No. | Feet | Condition |
|------------|------|-----------|
| Shafts. 1 | 80. | Good. |
| Raises. | | |
| Tunnels. | | |
| Crosscuts. | | |
| Stopes. | | |

14. Water Supply:

about 4 miles to Colorado River

15. Brief History:

Has not produced to amount
of very much, no Record.

16. Signature:

M. D. Peery

17. If Property for Sale, List Approximate Price and Terms:

Contact M.W.
Stewart,

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FEB 28 1958
DEPT. MINERAL RESOURCES
PHOENIX, ARIZONA

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

February 21, 1958

To the Owner or Operator of the Arizona Mining Property named below:

| | | | |
|--------------------|--------|------|--------|
| ✓ | ✓ | | |
| Hardscrabble Group | Silver | Lead | Silver |
| (Property) | | | (ore) |

We have an old listing of the above property which we would like to have brought up to date.

Please fill out the enclosed Mine Owner's Report form with as complete detail as possible and attach copies of reports, maps, assay returns, shipment returns or other data which you have not sent us before and which might interest a prospective buyer in looking at the property.

Frank P. Knight

FRANK P. KNIGHT,
Director.

Enc: Mine Owner's Report

Mr Frank P. Knight

This Hardscrabble Group was located by a prospector, has never been worked or anything shipped has been abandoned for years.

Box 1486 - Puma, ARIZ.

*Yours very truly
W. D. Riley*

Handscrabble. (1/2)

add note

Silver mining district, Yuma county, Arizona.

Owner: E.E. Mills, & W.D. Riley, Yuma, Arizona.

Two miles by road north of Red Cloud camp in Trigo mountains, Road poor.

Country rock volcanic with some schist and granite.

There are no buildings or equipment on the property.

shallow

The principal vein, probably twenty feet wide, has been underhand stoped to a depth for about sixty feet along the strike. This opening is filled with debris covering the vein. Some high grade silver ore is reported to have been taken off the footwall which strikes N 15 E and dips 35 east.

There is one shaft about 70 feet deep. This is vertical for the first twenty feet where it reached the hanging wall. From this point down it follows the wall. This shaft appears to be very old and probably not sunk by present owner.

The vein filling is a manganiferous calcite with some fluorite and much hematite and limonite. Both carrusite and anglesite occur but none of the high grade galena reported to have come from this shaft could be found. Wulfenite and vanadinite occur irregularly distributed, the wulfenite being more abundant and seems to be concentrated along the footwall.

Two samples were taken. No. 266 was a general sample of all the dump representing material from the underhand stope and the shaft., This contained 0.09% V O and 0.11% MoO₃. Sample 267 was from a pile of ore by the shaft, selected for its supposed higher vanadium content. This assayed 0.15% V O and 0.05 MoO₃.

In view of the low vanadium content this property is of no further interest.

Flagg report

LAPAZ - Table Records

| | | | | | | | | | | |
|---------------------------------------|-------------------|----------|----------|--------------|----------|---------|---------|------|--|--|
| NUMBER | FILE | CONT | CONT1 | PRINAME | | | | | | |
| 269 | F | 0 | N | HARDSCRABBLE | | | | | | |
| ALTNAME1 | | | | | ALTNAME2 | | | | | |
| ALTNAME3 | | | | | ALTNAME4 | | | | | |
| ALTNAME5 | | | | | ALTNAME6 | | | | | |
| CURSTAT | MNAME | | | NLATDEG | NLATMIN | | | | | |
| PAST PRODUCER | PICACHO - 7.5 MIN | | | 33 | 06 | | | | | |
| NLATSEC | WLONGDEG | WLONGMIN | WLONGSEC | TOWN | RANGE | SECTION | QUARTER | COM1 | | |
| 41 | 114 | 35 | 58 | 4 S | 23 W | 2 | N2 | PB | | |
| MODI1 | COM2 | MODI2 | COM3 | MODI3 | COM4 | MODI4 | | | | |
| | AG | | AU | LODE | MO | | | | | |
| COM5 | MODI5 | COM6 | MODI6 | COM7 | MODI7 | | | | | |
| V | | | | | | | | | | |
| BIB1 | | | | | | | | | | |
| AZBM FILE DATA | | | | | | | | | | |
| BIB2 | | | | | | | | | | |
| ADMMR HARDSCRABBLE GROUP FILE | | | | | | | | | | |
| BIB3 | | | | | | | | | | |
| ADMMR RED CLOUD MINE FILE | | | | | | | | | | |
| BIB4 | | | | | | | | | | |
| A.L. FLAGG VANADIUM RPT. BK VI & VIII | | | | | | | | | | |