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ARIZONA DEPARTMENT OF MINES AND MINERAL RESOURCES AZMILS DATA

PRIMARY NAME: BERGER-PHILLIPS

ALTERNATE NAMES:
CURLEY GROUP
PHILLIPS

MOHAVE COUNTY MILS NUMBER: 471A

LOCATION: TOWNSHIP 16.5N RANGE 11 W SECTION 19 QUARTER SW
LATITUDE: N 34DEG 47MIN 36SEC LONGITUDE: W 113DEG 27MIN 22SEC
TOPO MAP NAME: CEDAR BASIN - 7.5 MIN

CURRENT STATUS: DEVEL DEPOSIT

COMMODITY:
TUNGSTEN

BIBLIOGRAPHY:
ADMMR BERGER-PHILLIPS MINE FILE
WILSON, E.D "TUNGSTEN DPSTS OF AZ" AZBM BULL
148, P 17, 1941
BLM UNIT RES. ANALYSIS STEP 3 & 4, HUALAPAI
UNIT
DALE, V.B. "TUNGSTEN DPSTS OF GILA, YAV., MOH.,
CTY, AZ" USBM IC 8078 P. 69-70, 1961
ADDITIONAL WORKINGS SEC. 24-T16.5N-R15W

BERGER-PHILLIPS TUNGSTEN MINE

REFERENCES

MOHAVE COUNTY
AQUARIUS DIST.
T16.5N R11W Sec. 19

ABM Bul. 148, p. 17

BLM Unit Res. Analysis Tep 3 and 4, Hualapai Unit

USGM IC 8078, P. 69-70

MILS Sheet sequence number 0040150361

Mohave County MILS Index #471A

AKA: Curley Group, Phillips

Cedar Basin, AZ 7.5' Topo (included in file)

NAME OF MINE: BERGER PHILLIPS

COUNTY: MOHAVE W

DISTRICT:

METALS: W

OPERATOR AND ADDRESS:

MINE STATUS

DATE:

DATE:

5/1/44 Henry Berger, Box 124
Mendina, Washington

5/1/44 Closed

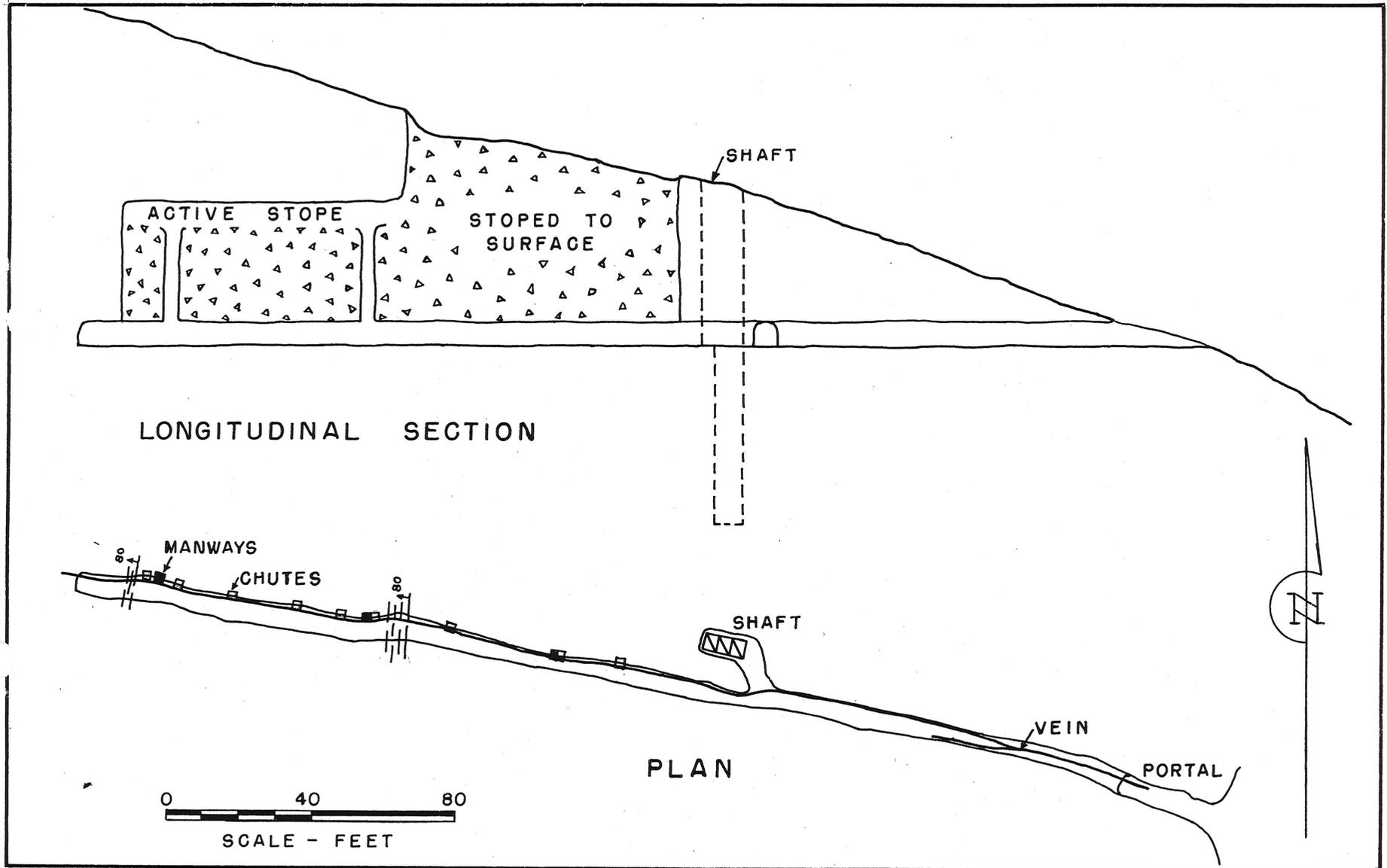


FIGURE . - UNDERGROUND WORKINGS, PHILLIPS MINE - MOHAVE COUNTY, ARIZONA

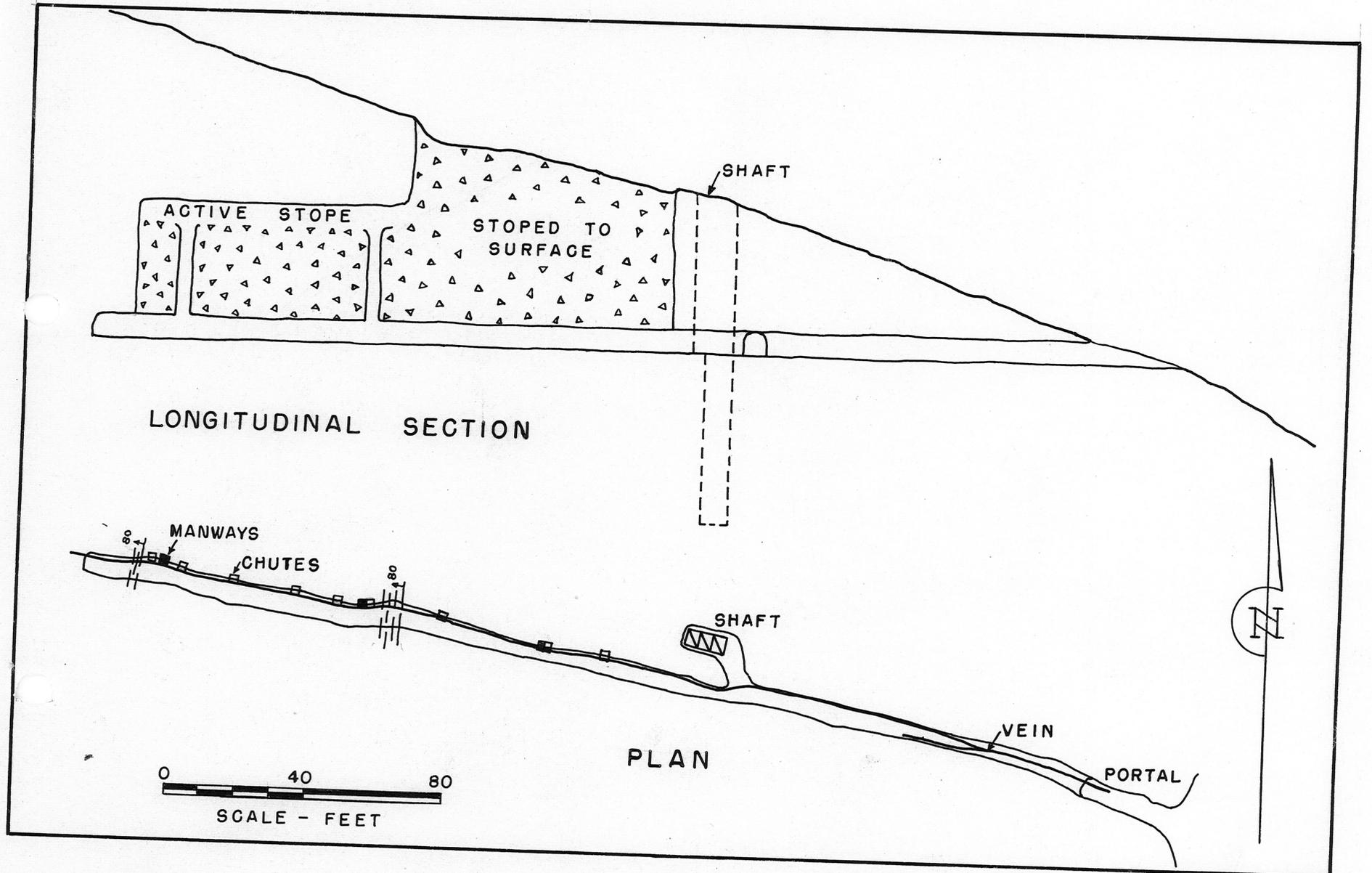


FIGURE 12. - UNDERGROUND WORKINGS, PHILLIPS MINE - MOHAVE COUNTY, ARIZONA

DEPARTMENT OF MINERAL RESOURCES
STATE OF ARIZONA
FIELD ENGINEERS REPORT

Mine BERGER-PHILLIPS TUNGSTEN MINE: ✓

Date May 28, 1942

District Greenwood Mining District

Engineer Elgin B. Holt

Subject:

Henry W. Berger, Henry W. Berger, Jr., and Harry R. Phillips, owners, Box 851, Kingman, Arizona, Location: Greenwood Mining District, Mohave County, Arizona, 65 miles southeast of Kingman, and reached by county maintained dirt road for 50 miles to a point five miles north of Wikieup; thence to mine over a very poor road to property.

PRODUCTION: None. Mine in development stage with a \$20,000 RFC Loan.
(An additional \$18,000 recently granted - 9/30/42)

EQUIPMENT AND BUILDINGS:

- 1 - 120-foot Ingersoll Rand gas-driven compressor, 450 R.P.M.
- 1 - 7½-HP gas hoist, but arranging to install a 35-HP gas engine-driven hoist.
- 6 - Tent houses, with running hot and cold water.
- 1 - Compressor frame building.
- 1 - Blacksmith shop.
- 1 - Change room with showers.
- 1 - Hoist room.
- 1 - Underground powder storage room.

VEINS: There are five parallel veins, striking east and west; dip 80 degrees south. These show tungsten all along outcrops for 3,000 feet within Berger-Phillips ground; said veins ranging width on surface from 3 to 4 inches to 1.5 feet. Work has been done on three of these veins.

MINE WORKINGS: One vertical 1½-compartment shaft 100 feet deep. At bottom of shaft a cross-cut was driven south 35 feet to vein, cutting the same 170 feet below the outcrop. Then drift was run on vein west 50 feet; vein being 50 inches wide between walls, showing high grade Wolframite ore, assaying from 2.5 per cent to 6 per cent WO₃, per large samples.

At the 50-foot level in shaft, a cross-cut was run 40 feet to vein, and then a drift was driven on vein for a length of 320 feet; vein being two feet wide and averaging 0.75 per cent WO₃ per a 40-ton mill run.

CHARACTER OF ORE: Ore is very clean Wolframite, with no deleterious metals present. A concentrate treatment test by jigging gave 91 per cent recovery and resulting product averaged 68 per cent WO₃.

POSITIVE ORE: Blocked out between the 50-foot and 100-foot levels equals 10,000 units of WO₃.

AREA: Four unpatented claims, and two mill sites.

WATER: Two nearby springs would supply ample water for a large mill as well as for domestic use.

PLANS FOR PUTTING PROPERTY INTO PRODUCTION: Mr. Berger, who dictated the above data to me, stated that such plans are strictly confidential at the present time. He further stated that the results of the development work to date have proven highly satisfactory.

May 28, 1942

OPERATING MINES
Mohave County

TO: J. S. Coupal

FROM: Elgin B. Holt

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May 28, 1942

Greenwood Mining District

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DEPT. MINERAL RESOURCES
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PHOENIX, ARIZONA

BERGER-PHILLIPS TUNGSTEN MINE:

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Elgin B. Holt.

DEPARTMENT OF MINERAL RESOURCES
STATE OF ARIZONA
FIELD ENGINEERS REPORT

TYPE NO. 212

Mine BERGER-PHILLIPS TUNGSTEN MINE ✓

Date Sept. 30, 1942

District Greenwood, Mohave Co.

Engineer

Subject: PRODUCTION POSSIBILITY ✓

ARIZ. B.M. Bull #148
P-17 ✓

OWNERS: Henry W. Berger, Henry W. Berger, Jr., and Harry R. Phillips,
Box 851, Kingman, Arizona.

METALS: Tungsten only.

LOCATION

This property is located in the Greenwood Mining District, Mohave County, Arizona, 65 miles southeast of Kingman, and reached by a county-maintained dirt road, in fair condition, to a point 50 miles from Kingman and 5 miles north of Wikieup; thence 15 miles to mine over a very poor road to property.

R. F. C. LOANS: The mine is in the process of development by means of R. F. C. loans, aggregating \$38,000. The first \$20,000 loan has already been expended, and the second loan, consisting of \$18,000, is now being spent driving a cross-cut tunnel.

EQUIPMENT

Property is equipped with usual mine equipment, consisting of a compressor, hoist, drill steel and mining tools, buildings, etc.

VEINS

There are 5 parallel veins striking east and west, according to Berger; dip 80 degrees south. These show tungsten all along outcrops for 3,000 feet within Berger Phillips ground; said veins ranging in width on surface from 3 to 4 inches to 1.5 feet. Work has been done on three of these veins.

MINE WORKINGS

One vertical 1½-compartment shaft 100 feet deep. At bottom of shaft a cross-cut was driven south 35 feet to vein, cutting the same 170 feet

below the outcrop. Then a drift was run on vein west 50 feet; vein being 50 inches wide between walls, showing high grade wolframite ore, assaying from 2.5% to 6% WO_3 , per Berger, who says he cut large samples.

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ORE RESERVES

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There are four unpatented claims in the group and two mill sites.

WATER

Berger says that two nearby springs would supply ample water for a large mill, as well as for all domestic purposes.

PLANS FOR PUTTING PROPERTY IN PRODUCTION

I talked to Mr. Phillips, one of the owners, yesterday, and he informed me that his associate, Mr. Berger, is now in Washington for the purpose of making financial arrangements with RFC to install a mill at property; but of what capacity, he did not seem to know.

CROSS-CUT TUNNEL

Phillips also stated that a cross-cut tunnel is now being driven to the main contact vein, which, when completed, will have a length of 750 feet, ^{350 feet of which has been completed;} and will cut the vein 350 feet deeper than the bottom of shaft mentioned. This work, of course, should result in opening up considerable new ore reserves; but until this tunnel is finished, no one can predict what the new ore reserves will amount to.

MILL DISCUSSED

As stated, until the cross-cut tunnel mentioned is finished, no one can predict what the new ore reserves will amount to. I would say, however, that one mill, not to exceed 100 tons in capacity, should be erected, either at the Berger-Phillips property or at the Williams Tungsten mine, located around five miles from the property now being discussed, with the end in view of treating the ores from both of these mines. For as a rule, the tungsten veins in Mohave County are not large, ranging from around one foot to two or three feet wide. Again, tungsten ores occurring in these veins are found in lenses. Therefore, it is not wise to build large mills on any of these mines. Right now, the Borianna mine has larger mill capacity than can be supplied by ^{this} ~~the Borianna~~ property.

As a matter of fact, there is a 50-ton tungsten mill, in first class running order, now erected, ready to go, at the Williams Tungsten mine. This mill was built and operated by the Continental Mining Company, of New York, during 1940-41. Operations of this company failed due mainly to the theft of concentrates and high grade ore, inasmuch as 50 per cent of production was stolen, per Roy Williams, by the workmen.

ROADS

If a road could be built between the two properties mentioned, then and in such event, the Williams Mill could be started almost immediately treating ores from both mines; and it is believed said ores would average around one per cent WO_3 , per data I have at hand. Also, the 15 miles of poor road mentioned above, from the Sandy road to the Berger-Phillips property, would have to be improved materially; making all in all about 20 miles of rough mountain roads to build; but no data is available as to how much these roads would cost; probably around \$60,000.

CAPITAL NEEDS

I have no data at hand as to the capital needs of the Berger-Phillips property - capital to be used in building a mill, roads, additional housing, etc. ^{This} ~~the~~ property alone would probably justify the building of a 50-ton mill, at a cost of probably \$40,000; and that would be providing the cross-cut tunnel now being driven should result in opening up new and important ore reserves. On the other hand, as stated, in the event the roads mentioned could be built, and also in case the Berger-Phillips and Willams Tungsten properties could be merged, - when and if all this could be done, milling could start immediately, using the said 50-ton mill at the Willams property. In such event, the ~~mill~~ 50-ton mill mentioned could be increased in capacity from time to time, as additional ores in these properties are developed.

Elgin B. Holt

BERGER-PHILLIPS TUNGSTEN MINE

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Signed: Elgin B. Holt

BERBER-PHILLIPS TUNGSTEN MINE

Sept. 30, 1942

Greenwood, Mohave Co.

Elgin B. Holt

Production Possibility

Owners: Henry W. Berger, Henry W. Berger, Jr., and Harry R. Phillips

Box 851, Kingman, Arizona

Metals: Tungsten Only

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MINE WORKINGS

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BERGER -PHILLIPS TUNGSTEN MINE

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Signed: Elgin B. Holt

May 28, 1942

OPERATING MINES
Mohave County

TO: J. S. Coupal

FROM: Elgin B. Holt

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(AN ADDITIONAL 18000 RECENTLY GRANTED - 9/20/42)

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DEPARTMENT OF MINERAL RESOURCES
STATE OF ARIZONA
FIELD ENGINEERS REPORT

Mine **PHILLIPS TUNGSTEN** Date **January 2, 1953**
District **Aquarius Region - Mohave County** Engineer **MARK GEMMILL**
Subject:

TUNGSTEN

This property belongs to H. R. Williams of Kingman, Arizona and at present is leased to Ed Scholz and James Casier of Bagdad, Arizona.

The property is located by road 72 miles southeast of Kingman.

It is described on page 17, Arizona Bureau of Mines Bulletin No. 148. The property at present is being worked by the lessees and has produced several hundred tons of ore during the past year which ran in the neighborhood of 1% tungsten.

3 men are currently employed.

DEPARTMENT OF MINERAL RESOURCES
STATE OF ARIZONA
FIELD ENGINEERS REPORT

Mine Berger-Phillips

Date Sept. 20, 1954

District Aquarius

Engineer Mark Gemmill

Subject: Present Status

In 1950 Ed Scholz and Jim Cazier of Bagdad acquired the property and operated it intermittantly since. They have taken out much of the ore which had been developed. Some of the ore was shipped out to be milled at the Hillside Mill. Later on the operators built a small mill at the property. At the present time the property is closed down but it has not been given up by the operators. Amount of production is not available.

DEPARTMENT OF MINERAL RESOURCES
STATE OF ARIZONA
FIELD ENGINEERS REPORT

Mine PHILLIPS TUNGSTEN Date January 2, 1953
District Aquarius Region - Mohave County Engineer MARK GEMMILL
Subject: TUNGSTEN

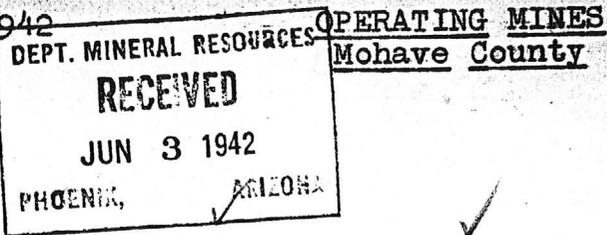
This property belongs to H. R. Williams of Kingman, Arizona and at present is leased to Ed Scholz and James Cazier of Bagdad, Arizona.

The property is located by road 72 miles southeast of Kingman.

It is described on page 17, Arizona Bureau of Mines Bulletin No. 148. p-16
The property at present is being worked by the lessees and has produced several hundred tons of ore during the past year which ran in the neighborhood of 1% tungsten.

3 men are currently employed.

May 28, 1942



To: J. S. Coupal
From: Elgin B. Holt

BERGER-PHILLIPS TUNGSTEN MINE: Henry W. Berger, Henry W. Berger, Jr., and Harry R. Phillips, owners, Box 851, Kingman, Arizona. Location: Greenwood Mining District, Mohave County, Arizona, 65 miles southeast of Kingman, and reached by county maintained dirt road for 50 miles to a point five miles north of Wikieup; thence 15 miles to mine over a very poor road to property.

PRODUCTION: None. Mine in development stage with a \$20,000 RFC loan.

EQUIPMENT AND BUILDINGS:

- 1 - 120-foot Ingersoll Rand gas driven compressor, 450 R. P. M.
- 1 - 7½-HP gas hoist, but arranging to install a 35-HP gas engine drivenhoist.
- 6 - Tent houses, with running hot and cold water.
- 1 - Compressor frame building
- 1 - Blacksmith shop.
- 1 - Change room with showers.
- 1 - Hoist room.
- 1 - Underground powder storage room.

VEINS: There are five parallel veins, striking east and west; dip 80 degrees south. These show tungsten all along outcrops for 3,000 feet within Berger-Phillips ground; said veins ranging in width on surface from 3 to 4 inches to 1.5 feet. Work has been done on three of these veins.

DEPARTMENT OF MINERAL RESOURCES

This property was not visited. STATE OF ARIZONA

Report by
A. Brodie Campbell

Data comes from other reports
and talks with owner.

OWNERS MINE REPORT

Date

1. Mine Berger-Phillips Tungsten Mine
2. Mining District & County Aquarius Dist.
Mojave County
3. Former name
4. Location West flank of Aquarius Mts.,
on east side of Big Sandy Wash.
5. Owner Henry Berger and associates
6. Address (Owner) P.O. Box 851, Kingman, Ariz.
7. Operator "
8. Address (Operator) "
9. President
10. Gen. Mgr.
11. Mine Supt.
12. Mill Supt.
13. Principal Metals Wolframite and scheelite.
Some sulphides
14. Men Employed
15. Production Rate None
16. Mill: Type & Cap. None
17. Power: Amt. & Type See appended report
18. Operations: Present Develop.
19. Operations Planned Mine, mill and develop.
20. Number Claims, Title, etc. 4 claims held by location. 2 mill sites.
21. Description: Topography & Geography Fairly rugged mountainous. Elevation 4,000'.
Fair precipitation.
22. Mine Workings: Amt. & Condition See appended report.

23. Geology & Mineralization See appended report.
24. Ore: Positive & Probable, Ore Dumps, Tailings 10,000 units proven ore.
- 24-A Vein Width, Length, Value, etc. Outcrops indicate 7,500' vein with average depth of 300' and width of 1'.
25. Mine, Mill Equipment & Flow Sheet None
26. Road Conditions, Route Poor, see appended report.
27. Water Supply Good from adjacent creeks.
28. Brief History
29. Special Problems, Reports Filed Wilson, Tungsten deposits of Arizona. Holt appended.
30. Remarks This property in conjunction with the Williams property should become the largest tungsten producers in the northern part of the State.
31. If property for sale: Price, terms and address to negotiate. See Berger in Kingman.
32. Signed.....
33. Use additional sheets if necessary.