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ARIZONA DEPARTMENT OF MINES AND MINERAL RESOURCES AZMILS DATA

PRIMARY NAME: BULL CANYON TUNGSTEN

ALTERNATE NAMES:  
IGUANA CLAIMS

MOHAVE COUNTY MILS NUMBER: 512A

LOCATION: TOWNSHIP 18 N RANGE 15 W SECTION 18 QUARTER N2  
LATITUDE: N 34DEG 56MIN 57SEC LONGITUDE: W 113DEG 54MIN 12SEC  
TOPO MAP NAME: WABAYUMA PEAK - 7.5 MIN

CURRENT STATUS: PAST PRODUCER

COMMODITY:  
TUNGSTEN  
COPPER  
MOLYBDENUM  
BERYLLIUM  
FLUORINE

BIBLIOGRAPHY:  
ADMMR BULL CANYON TUNGSTEN MINE FILE  
BLM UNIT RESOURCE ANALYSIS STEP 3 & 4,  
HUALAPAI UNIT  
DALE, V.B. "TUNGSTEN DPSTS OF GILA, YAVAPAI,  
MOHAVE CTY, AZ" USBM IC 8078, P 84-7, 1961  
ADDITIONAL WORKINGS SEC. 7, SESW, T18N-R15W

Name of Mine or Prospect: Bull Canyon Mine (Laramide Group)	Township 18N	Range 15W	Section 18	Priority A
Principal Minerals: Scheelite, Molybdenite, Chalcopyrite	1:250,000 Quad Williams		7.5' - 15' Quad Wabayuma Peak	
Associated Minerals: Quartz, Sericite, Fluorite, Beryl	District Maynard		Principal Product Tungsten-molybden	
Type of Operation: Underground	County Mohave	State Ar.	Type of Deposit Vein	

Ownership or Controlling Interest:  
Dye & Bathrick, Kingman, Ar. (1961).<sup>3</sup>

Access: From Yucca, Ar., proceed 17 miles east on Mackenzie Wash Road, bear right at Boriana Mine for .5 miles. Turn right on jeep trail and travel 1.5 miles to mine site. Mine is shown (unnamed).

Structural Control or Geological Association:

"Greisen-like alteration zones in Laramide(?) granite stock, similar to Wheeler Wash and Ithica Peak molybdenum/copper mineralization. Prospect has potential for porphyry-type mineralization."<sup>2</sup>

Age of Mineralization: Laramide(?)

Production History				Geochemical Analyses			
7 unpatented claims <sup>1</sup> 106 units of WO <sub>3</sub> 1951-1956 <sup>3</sup> 30 tons WO <sub>3</sub> concentrate 1941-1943. <sup>3</sup>				Assay Data (1979) <sup>2</sup> Sample 7-10-79-1 Silver 4.2 ppm Gold .01 ppm Copper .282% Molybdenum .406% Tungsten .075%			
Sample I. D. <sup>4</sup>	Tin	(ppm)	Tungsten	Sample I.D. <sup>4</sup>	Tin	(ppm)	Tungsten
RH80-3	6		< 2	80cj43	5		150
5	< 5		< 2	56A	< 5		2
13	7		< 2	58	< 5		< 2
16,18	6		< 2	62	< 5		< 2
19A	< 5		2	65	< 5		230
19B	16		1100	67,68,70	< 5		< 2
				73	< 5		< 2
				75	< 5		30
				78	6		< 2

References

- 1) Mallach (1979) p. 52.
- 2) Liggett (Dec. 7, 1979) letter to Wm. Crutchfield, Jr., 3 p.
- 3) Dale (1961) p. 84-87.
- 4) Exploration Research Associates Incorporated, 1982, Memorandum to William H. Crutchfield, Jr., 8 June 1982



BULL CANYON TUNGSTEN MINE

MOHAVE COUNTY

Owned by Moly. Corp. of American and Dye & Bathrick - has been leased to Dalton Robinett - is idle at present. Has had some intermittent production during the past few years.  
Mark Gemmill 5-27-57

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\*

DO NOT REPRODUCE

STATUS OF DORMANT MINES

MINE NAME: BILL CANYON TUNGSTEN AND TUNGSTENITE GROUP

LOCATION: MOHAVE CO. YUCCA ARIZ.

OWNER AND/OR LEASEE: OWNER - D. ROBINETT

ADDRESS: BOX 501 KINGMAN ARIZONA

APPROXIMATE PRODUCTION (Year of 1945):

COPPER \_\_\_\_\_ Lbs. LEAD \_\_\_\_\_ Lbs.

ZINC \_\_\_\_\_ Lbs. (OTHER) 210 WAITS WO<sub>3</sub>

CHECK THE CHIEF CAUSE OF YOUR DISCONTINUED PRODUCTION:

- (A) Easily available ore worked out. NO
- (B) Increased costs, but have quantity similar to past grade of ore. YES
- (C) Too close a margin to develop more ore. YES FLOODED THE
- (D) CHINESE TUNGSTEN MARKET, DOMESTIC, NOMINAL

If you have ore ready to mine please give your estimate of the amount of metal (name each metal) that you could produce in one year (after allowing 60 days to get started) if there were premiums above present market prices. Name amount with a low premium, and amount at a high premium; such as:

Copper at 22 $\frac{1}{2}$ ¢ plus 5¢ premium..... 1,000,000 Lbs.  
Copper at 22 $\frac{1}{2}$ ¢ plus 10¢ premium..... 1,500,000 Lbs.

COULDNT START IN 60 DAYS MILLING  
MILL STOLEN MINE CAVING IN

If you do not have ore ready to mine please discuss the following:

- (A) Do you think a reasonable development program would produce a justified tonnage of commercial ore at above mine?

HAVE PLENTY OF COMERCIAL  
ORE EASLY OBTAINED

- (B) With a premium price (guaranteed for one year) could you carry out such a development program yourself? What premium?

NO. TAKE CAPITAL TO  
START.

- (C) If you could not do this yourself, would a quick drilling program by some government agency (at government expense) be sufficient?

NO HAVE PLENTY ORE  
IN SIGHT

- (D) Or would you prefer a loan plan similar to the arrangements during World War II?

WOULD HAVE TO HAVE  
LOAN

How about a combination plan in two stages such as follows?

Stage 1: Government engineers review project and, if a little drilling appears to be justified and a preliminary key to the situation, such drilling program to be agreed upon by owner and government engineer, paid for by the government, but let by contract.

Stage 2: If results of drilling (or without drilling) justify underground development and/or production equipment, same to be obtainable via a mortgage loan on property.

Please discuss the above:

YES MORTGAGE LOAN O.K.  
WITH \$50,000 LOAN COULD PRODUCE 500  
UNITS PER MONTH \$100,000 LOAN 1000 UNITS  
W/O BUT I PERSONLY BUY WHAT I NEED NO  
RESTRICTIONS FROM SOME BIRD THAT  
DOESNT KNOW ADAMTHING ABOUT IT  
OR I LET ER LAY, RUINED ANYWAY

SUGGESTIONS:

IF YOU WANT PRODUCTION MANY OF  
US "MINING" CAN GIVE YOU WHAT YOU  
WANT BUT WE GOT TO HAVE A LOAN  
OR SOMETHING. WE ARE BROKE

DATE

Aug 4<sup>th</sup> 1950

SIGNATURE

Dalton Robinson

News: **DEPARTMENT OF MINERAL RESOURCES**

Service Report

Date July 11, 1951  
Mine: Bull Canyon Tungsten  
Location: Nature of Call  
Place 16 N.E. of Yucca, Arizona  
Owner: Dalton Robbinett  
Name  
Address Box 501 - Kingman, Arizona  
Operating Co.: Same

Subject

Principal Metals: Tungsten  
Men employed: 6  
Production rate: 2-3 tons per day  
Mill type & capacity: None  
Power, Amt & Type: Gas Comp.  
Action

Mark Gemmill

Signed

Use other side if necessary



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Present operations: Surface operations on  
several tungsten veins

Misc Notes: Mr. Robbinatt now looking for  
place to mill ore. Hopes to be able  
to mill ore in Borianna Mill which is  
being put in shape by Dye and Busrock,  
owners of the Borianna

NAME OF MINE: BULL CANYON

COUNTY: MOHAVE

DISTRICT:

METALS: WO3

OPERATOR AND ADDRESS:

MINE STATUS

DATE:		DATE:	
5/1/44	D. Robinett, Box 501 Kingman, Arizona	5/1/44	Shipping
	<i>Leasing from molybdenum Corp. of America</i>	8/45	Idle
		11/45	Dev. & shipping
8/48	D. B. Christinson, Kingman		Dev. & Ship.

BULL CANYON

W

Mohave

8 -

T 18 N, R 15 W

D. Robinett, Box 501, Kingman

'44

\*

DEPARTMENT OF MINERAL RESOURCES  
STATE OF ARIZONA  
FIELD ENGINEERS REPORT

DEPT. MINERAL RESOURCES  
**RECEIVED**  
OCT 2 1943  
PHOENIX,  
ARIZONA

Mine  BULL CANYON TUNGSTEN MINE                      Date October 27, 1943  
District Cedar Mining District, Mohave Co., Engineer Elgin B. Holt  
            Arizona.  
Subject:

REPORT

OWNERS: D. Robinett, P. O. Box 11, Yucca, Arizona, owns one-third interest in group of seven claims, while the other two-thirds interest in these claims belongs to the Borianna holdings, which for some years have been operated under lease by the Molybdenum Corporation of America, Marx Hirsch, President, 500 Fifth Avenue, New York, N. Y.

<u>Names of Claims</u>	<u>Recorded in Book</u>	<u>Page</u>
<input checked="" type="checkbox"/> Neglected No. 1	----- ZZ	----- 363
<input checked="" type="checkbox"/> Neglected No. 2	----- ZZ	----- 364
<input checked="" type="checkbox"/> Iguana No. 1	----- ZZ	----- 364
<input checked="" type="checkbox"/> Iguana No. 2	----- ZZ	----- 366
<input checked="" type="checkbox"/> Iguana No. 3	----- 3H	----- 588
<input checked="" type="checkbox"/> Neglected No. 3	----- 3K	----- 407
<input checked="" type="checkbox"/> Iguana No. 4	----- 3Q	----- 150

NOTE: The productive area of this group is covered by the Iguana No. 2 claim, on which Robinett states he has a lease on the 2/3 interest belonging to Borianna, with no time limit, as long as he performs 30 shifts of work per month.

METALS: Tungsten: Scheelite and Wolframite.

LOCATION: This property is reached from Yucca, a station on the Santa Fe Railroad, by following a county-maintained dirt road easterly 18 miles to the Borianna mine; thence northeast one mile by pack-trail to property, over the main range of the Hualpai Mountains. Borianna has an elevation, at the 500-foot tunnel level, of 5,000 feet above sea level. The pass in the Hualpai Mountains, where the trail crosses, has an elevation of 6,725 feet, and the Bull Canyon mine, at its cross-cut tunnel level, has an elevation of 5,350.

EXAMINATION:

On October 25, 1943, I visited the Bull Canyon property, in company with Robinett. Inasmuch as I only spent a part of the day at the mine and took no samples, this report is merely a brief physical description of the mine. However, without any question of doubt, there is a considerable tonnage of ore now developed in the mine and available for milling, provided a larger treatment plant could be installed at property.

ACCESS ROAD:

The main object of my visit was to assist Robinett in drawing up a new application for an access road from Boriانا to the property. Such an application was made during 1942, but was turned down by the War Production Board, for no valid reason, as far as I could determine.

BORIANA MINE:

As the Bull Canyon Tungsten group of claims covers the northeast extension of the Boriانا vein and holdings, a brief description of Boriانا is here set forth. This information was furnished me during October, 1942, by Mr. W. H. Munds, who was Resident Manager of Boriانا at that time.

The Boriانا group consists of 16 unpatented mining claims.

There are four veins in schist, each vein being made up of a series of stringers of tungsten ore from 1" to 15" wide.

Development work consists mainly of tunnels and raises, aggregating 15,000 feet. There is one inside winze sunk vertically to a depth of 450', at a point 2,900 feet northeast from main portal of main tunnel. There are three levels in said winze with 5,000 feet of lateral work.

BULL CANYON TUNGSTEN MINE

A 200-ton combination gravity and flotation mill is located at Boriانا, and produces a product running 70% WO<sub>3</sub>, which is shipped to the company's own tungsten reduction and manufacturing works at Washington, Pennsylvania.

Ore milled during 1941, per Munds, amounted to 16,000 tons, assaying 1.12% WO<sub>3</sub>. Tails assayed 0.12% WO<sub>3</sub>. Concentrates produced during this year contained 16,000 units of WO<sub>3</sub>.

At the time of visit the Boriانا mill was closed down due to the shortage of labor and probably for the purpose of reorganization. Munds stated that no attempt is made to maintain large ore reserves in the mine, due to swelling ground. Therefore, ore is practically mined as fast as developed in order to save maintenance costs of keeping drifts open. However, around from 4 to 6 months supply of ore is kept blocked out ahead of stoping operations, in order to keep the mill working without closing down.

#### ORE ZONE:

The Boriانا ore zone consists of a wide belt of upturned schist strata in which the four tungsten-bearing veins are found. This zone outcrops for a long distance through the Boriانا holdings, striking N. 35 degrees E., dipping 70 degrees S. E., and continues through the entire length of the Iguana No. 2 claim, which is the productive area of the Bull Canyon group, as above stated.

However, there is a marked difference between the geology of the Boriانا and the Bull Canyon property, and which may be briefly summarized as follows: While the ore zone passing through Boriانا consists of schist in which are found stringers of tungsten ore, in the Bull Canyon property the schist belt is intruded by a huge quartz-monzonite dike which is impregnated with Scheelite and Wolframite across widths which I did not fully determine, but which will be discussed more fully in the following paragraph.

MINE WORKINGS:

The Bull Canyon property is opened by the following workings:

A cross-cut tunnel was started at an elevation of 5350 feet, at a point on the Iguana No. 2 claim around 200 feet N. E. of the N. E. end line of the Boriana holdings. The portal of this cross-cut tunnel is 350 feet higher than the portal of the main Boriana tunnel, known as the 500-foot level of that property. The said cross-cut tunnel was driven 450' N. 38 degrees W. and intersected four or five tungsten veins. On one of these a drift was run N. E. 247 feet and another drift 50 feet in the same direction. At a point about 55 feet from the end of this cross-cut tunnel, the quartz-monzonite dike mentioned above was encountered. Hence, the last 55 feet of this cross-cut is in solid quartz-monzonite, which we inspected with a mineral light and found the same to be entirely impregnated with Scheelite. We then panned this material and found it to contain both Scheelite and Wolframite in about equal amounts. While we took no assays of the quartz-monzonite material just mentioned, Robinett stated that Mr. Munds of Boriana inspected the Bull Canyon mine recently, or within the last 30 days, and that Munds was well pleased with the general showings of tungsten ore and stated he believed the quartz-monzonite material to be of good milling grade and that it should assay in excess of 1% WO<sub>3</sub>.

Robinett stated that the said quartz-monzonite dike has a width of at least 400 feet and that all points where it had been penetrated with mine workings good Scheelite values show with the mineral light. I had no way of checking the width of the said dike; but I did check him that where the dike is cut by mine workings there is a goodly showing of Scheelite. Hence, the tonnage of milling ore now indicated in the mine is undoubtedly very large.

Other workings in the Bull Canyon property in the hill above the cross-cut tunnel mentioned consist of 1,000 feet of work, mainly in the nature of drifts on various veins; there being 14 parallel veins in all, per Robinett, ranging from one inch to 16 inches wide, and which are the high grade veins that have been worked. I also inspected most of these workings and found where the same had cut the quartz-monzonite that Scheelite showed under the mineral light, in the walls of these drifts and in the cross-cuts and raises therefrom.

#### PILOT MILL:

A small gravity concentration mill is installed at property, powered by a gas engine, and consisting of a rock crusher, set of rolls with return screen, followed by 6' by 12' Wilfley table.

#### PRODUCTION:

The production of this property from 1934 to 1941 was not available at the time of visit, as Robinett had not kept a full record of his operations during that period. However, during the year 1942 he produced around \$20,000 worth of concentrates, assaying 70% WO<sub>3</sub>, which was marketed to Fernstrom Company, Tucson, Arizona. During 1943 his gross production has amounted to only about \$14,000 due to the fact that he <sup>main</sup>lost his/water supply during July, 1942, at which time a drift on the 700-foot level of Borianna penetrated his S. W. end line and cut certain water-bearing fractures which resulted in draining the water from the Bull Canyon mine workings. The only water supply now available for the small mill comes from a spring above property and is brought down to the mill by a pipe line, and furnishes merely enough water to run the mill only a few days each month.

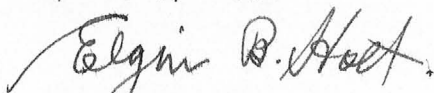
OTHER WATER SUPPLY:

There is another spring located in Pine Flat Canyon at an elevation of 500 feet above mine and one mile distant therefrom, which, per Robinett, would produce enough water to supply a mill with a capacity of 25 tons of ore daily. Also, there is still another spring in Bull Canyon located 3,000 feet east of the mine, with a lift of 400 feet, which would produce enough water to mill 15 tons daily.

REMARKS:

It seems to me, however, in the event an access road is built from Borianna to the Bull Canyon property that the logical procedure for Robinett, or others who may work the latter property, would be to make arrangements with Borianna to mill the ore from the Bull Canyon mine, inasmuch as the milling capacity of Borianna is in excess of the amount of ore generally produced from that property.

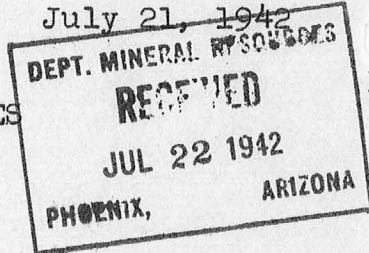
Another suggestion to be considered is: in case the said access road is constructed, all ores in excess of 2% WO<sub>3</sub> that may be produced from Bull Canyon could be marketed profitably at the Parker Stockpile. In this regard, Robinett is now producing ore for his small pilot mill assaying in excess of 5% WO<sub>3</sub>; said ore being obtained by selective mining and hand sorting. Hence, it is reasonable to suppose that by the same methods ore in quantity for export to the said stockpile could be produced assaying from 2% to 3% WO<sub>3</sub>.



Elgin B. Holt,  
Field Engineer.



SURVEY OF OPERATING MINES  
By: Elgin B. Holt.



BULL CANYON MINE ✓  
(Tungsten)

BULL CANYON MINE

OWNERS: Molybdenum Corp. of America, 1/3; D. Robinett, 1/3; and Mrs. Maud Fettis, 1/3.

Lessee: D. Robinett, Yucca, Arizona.

Property is located  $1\frac{1}{4}$  miles northeasterly from the Borianna tungsten mine, owned and worked by the Molybdenum Corp. of America. The said Bull Canyon property has been worked constantly by lessee for the last seven years, who generally employs around 12 men, mostly sub-lessees.

Lessee has been operating a small mill, consisting of crusher, rolls, and tables, powered by a Model A Ford motor.

Monthly production, per Mr. Robinett, has been averaging about 2500 pounds, 69 percent WO<sub>3</sub> concentrates, which is sold to Fernstrom & Co., of Tucson, agents for General Electric Co.

DEVELOPMENT WORK consists of a new 250-foot cross-cut tunnel, at the end of which a vein 2 feet wide was recently cut, on which an 8-foot drift has been run showing an average of 2 percent WO<sub>3</sub>. The older workings above this tunnel consist of 6 tunnels on vein and these are being worked by sub-lessees. The 250-foot tunnel mentioned, in addition to opening up the 2-foot vein referred to, also cut a vein from 12 to 16 feet wide at a point around 180 feet from mouth of tunnel, and this vein, while showing low tungsten and molybdenum values, is too low grade to work by present methods employed, per Robinett; but the same would be a good source of milling ore for a large plant. In the course of development and stoping operations, occasionally pockets of rich ore are found assaying from 30 to 60 percent tungsten. Character of ore is Scheelite, with some Wolframite.

PROBLEMS: First: Mr. Robinett states he has recently lost all his water supply for his small mill due to the fact that the Borianna company extended its mine workings in such a way that his water supply was tapped, thereby drying up ~~his~~ water ~~supply~~ he had been getting from his own mine workings. That to remedy this loss of water, it would be necessary to secure gravity water by means of a pipe line one mile in length he proposes to install from a mountain creek that runs for 9 months in the year, and by the construction on said creek of an impounding dam.

Second: He further states he needs funds to build a mile of mountain road from the Borianna road to his property; but gave no estimate as to cost of this new road.

Robinett is now up against a tough proposition; for he cannot go ahead producing tungsten without enough capital with which not only to build the pipe line and road, but also with which to install around a 25-ton tungsten mill. Holt advised him to apply for an RFC loan and to come to Kingman for a conference concerning this matter around August 1st.

# DEPARTMENT OF MINERAL RESOURCES

## REPORT TO OPA ON ACTIVE MINING PROJECT

DEPT. MINERAL RESOURCES  
 RECEIVED  
 NOV 3 1944  
 PHOENIX, ARIZ.

Date..... Nov. 1, 1944 .....

Name of Mine..... Bull Canyon Tungsten .....

Owner or Operator..... D. Robinett .....

Address..... Box 501, Kingman, Ariz. .....

Mine Location..... 20 miles NE of Yucca, Ariz. .....

Filing Information

File System.....

File No.....

This chart to be used for gallons of gasoline required per month.

**PRESENT OPERATIONS:** (check X)

Production......; Development.....; Financing.....; Sale of mine.....;

Experimental (sampling).....; Owner's occasional trip.....;

Other (specify).....

**PRODUCTION: Past and Future.**

	Tons	
Approx. tons last 3 months	2.5	tons of 69% WO <sub>3</sub>
Approx. present rate per 3 months	" "	" "
Anticipated rate next 3 months	" "	" "
If in distant future check (X) here		

**EQUIPMENT OPERATED:**

Type	Quantity or Horse Power	Miles or Hours Per Month	Gallons Required Per Month
Personal Cars			
Light or Service Trucks			
Ore Hauling Trucks			
Compressors	1 45-HP comp.	100 hours	400
	1 6-HP eng.	40 "	24
Other Mine or Mill Eqpt.	1 3 $\frac{1}{2}$ -HP eng.	40	14
<b>Total</b>			<b>438</b>

**PRODUCT PRODUCED OR CONTEMPLATED:** Name metals or minerals.

Tungsten concentrates. Has small mill in operation.

**REMARKS:**

Requests 438 gallons of gasoline per month for next three months. I recommend that this amount of gasoline be allowed, as applicant has operated this mine for the last 10 years.

ARIZONA DEPARTMENT OF MINERAL RESOURCES

By..... Elgin B. Holt .....

Elgin B. Holt, Field Engr.

APPLICATION FOR  
ACCESS ROAD TO RAW MATERIAL

Date: October 28, 1943

Project No. \_\_\_\_\_  
(Leave blank)

Serial No. \_\_\_\_\_  
(Leave blank)

Attention: Mr. G. L. McLane, Senior Highway Engineer  
Public Roads Administration  
P. O. Box 70  
Phoenix, Arizona

TO THE PUBLIC ROADS ADMINISTRATION:

I, the undersigned, hereby make application for access road assistance to serve my property which I believe is essential to the war effort.

I agree to furnish two copies of this application, properly filled out, together with two copies of a map showing the location of the property and the road in question. I will also furnish any other information about this project upon request.

I understand that this application is to be filed with the District Engineer of the Public Roads Administration (whose name is given on this application) in the district where the property is located.

I further agree to furnish any additional right-of-way necessary for the proposed road on property owned, or controlled, by the applicant.

D. Robinett

\_\_\_\_\_  
Name of Applicant

\_\_\_\_\_  
Street address  
P. O. Box 11,

Town  
Yucca

State  
Arizona

\_\_\_\_\_  
Telephone Number  
None

INFORMATION  
FOR MINE ACCESS ROAD

LOCATION OF MINE

State, Arizona ----- County, Mohave ----- Elevation 5350'

Township 18 North; Range 15 West; Sections 7 & 18

Name of Mine or claims: Bull Canyon Tungsten Mine

Mineral Resources Of Property

Kind of minerals or material: Tungsten: Scheelite & Wolframite

Specific nature and extent of sampling, exploration & development:  
See attached letter.

	Tonnage	Assay or analysis
Blocked out	4,000 tons *	1.0%, plus, WO <sub>3</sub>
Probable	50,000 tons	1.0, plus, WO <sub>3</sub>
Possible	400,000 tons	0.75% WO <sub>3</sub>

\* Dumps

PRODUCTION AT MINE

Operating season: Mine can be worked the year round.

Present daily production: 2.5 units of WO<sub>3</sub>, valued at \$67.50  
(25 units of WO<sub>3</sub>, valued at \$675)

Estimated daily production with proposed access road: (WO<sub>3</sub>, valued at \$675)

Number of men to be employed: 5

LOCATION OF MILL OR SMELTER WHERE ORE WILL BE DELIVERED

Name: Small pilot mill now at mine, will not be used if access road built, in which event ore will either be sold to ~~township~~ Soriana mill or to the Parker stockpile.

Distance from mine to mill or smelter: Mill located at mine  
(Concentrates packed to Soriana; thence  
Type of transportation (hailed by truck to Yucca; thence by  
(rail to Fernstrom Co., Tucson, Ariz.

Daily capacity of mill or smelter: Pilot mill will not be used.

FINANCIAL INFORMATION: Has any Government loan been granted? No.

\* ADDITIONAL INFORMATION: See attached letter describing property, together with two copies of a map showing location of ~~ef~~ property and the road in question. Mine is located on Government lands, administered by the GRAZING SERVICE, Phoenix, Arizona.

SUBJECT: ACCESS PROJECT TO  
BULL CANYON TUNGSTEN MINE

October 28, 1943

Mr. C. L. McLane, Senior Highway Engineer,  
Public Roads Administration,  
P. O. Box 70,  
Phoenix, Arizona.

Dear Mr. McLane:

Your attention is called to the fact that during 1942 I made application for an access road starting at the Borianna mine, Mohave County, Arizona, and ending at my property, the Bull Canyon Tungsten mine, located about one mile northeast of Borianna and covering the northeast extension of the veins of this property.

During January of this year, an engineer representing the U. S. Bureau of Mines examined my property and the said access road project, and I understand he made a favorable report on both the mine and the project. However, the War Production Board turned the project down, for reasons best known to that Board.

For your information, I have been a producer of tungsten from the Bull Canyon property since June 15, 1934; but my work has been handicapped greatly due to the fact that there is no road at all between Borianna and my property. Hence, all mine and other supplies must be packed on animals from Borianna to property, and tungsten concentrates or ore packed back for shipment to tungsten dealers. There is a good mountain and desert road leading from Borianna 18 miles to Yucca, a station on the Santa Fe Railroad.

Your attention is also called to the fact that at least four access road projects have been approved to mining districts in this county, in which no mines in these areas are in actual production at this time, although these roads will no doubt be useful later on. On the other hand, my property has been in continuous production of a metal needed in the war effort for the last nine years; and notwithstanding the fact that I have a considerable tonnage of tungsten ore now opened up ready to be mined and marketed, my road project was denied.

Attached hereto is a report on the Bull Canyon mine by Elgin S. Holt, Field Engineer, Department of Mineral Resources of Arizona. This report gives a good description of my property and its splendid possibilities. I am submitting it to you for your consideration.

Also attached hereto is a new application I have drawn up for an access road over the route above described. I am now asking that you consider this project strictly on its merits, paying no attention to any adverse reports regarding this project by my neighbors, who for ulterior motives would like to see me fail in my long efforts to make a still larger success in operating the Bull Canyon mine.

Very sincerely yours,

D. Robinett,  
Box 11, Yucca, Ariz.

cc - J. S. Coupal

March 17, 1944

Metals Reserve Company  
Mr. DeWitt C. Schieck, Vice President  
Washington, D. C.

Gentlemen:

At the request of Dalton Robinett,  
owner of the Bull Canyon Tungsten Mine at Yucca,  
Mohave County, Arizona, we are forwarding to you  
two copies of affidavit No. 1 duly executed before  
Notary.

Very truly yours,

J. S. Coupal, Director

JSC:LP  
Enc.

CC: Mr. Dalton Robinett

November 2, 1943

Mr. G. L. McLane  
Senior Highway Engineer  
Public Roads Administration  
P. O. Box 70  
Phoenix, Arizona

Dear Mr. McLane:

Subject: Bull Canyon Tungsten Mine  
Access Road

At the request of D. Robinett; P. O. Box 11,  
Yucca, Arizona, I am enclosing two reports on  
the Bull Canyon Tungsten and also sketch of the  
proposed new road.

Yours very truly,

J. S. Coupal, Director

JSC:LP  
Enc.

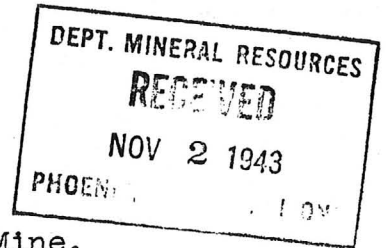
November 1, 1943

MEMORANDUM

To: J. S. Coupal

From: Elgin B. Holt

Subject: Access Road to Bull Canyon Tungsten Mine, D. Robinett, Yucca, Arizona. This project was turned down by WPB and Robinett is asking that it be reconsidered.



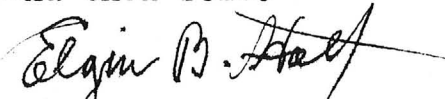
Referring to your memorandum of August 24th concerning access roads, I note you state you have talked to the Grazing Service suggesting that they reconsider some of the roads that have been rejected.

Also, I note ~~by~~ your memorandum of October 2 stating that the proper procedure is to file applications for access roads with G. L. McLane, Public Roads Administration, P. O. Box 70, Phoenix, Arizona, using Form PR-DA-3, which you enclosed.

I am writing you to advise that I visited the Bull Canyon Tungsten mine, with D. Robinett, who owns and controls it, on October 25th. Herewith enclosed is my report on this property, also a copy of the new access road project to the said property, or more properly a copy of the application for the said project.

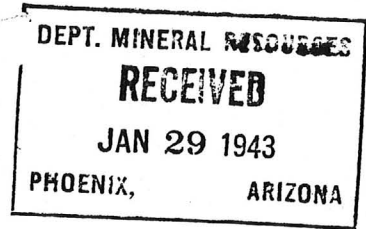
CONFIDENTIAL: Robinett advises me that the reason why his access road project was turned down was that officials of Borianna took steps in some way or other to oppose the approval of this project, due to the fact that Borianna is anxious to freeze him out so they may get hold of Bull Canyon mine for nothing. I do not think there is any question of doubt that this is true, as Borianna is owned by a bunch of New York Jews of very bad reputation wherever they operate. It seems to me if they want to get rid of Robinett they should buy him out at a fair figure and not try to gyp him out of his interests in Bull Canyon as they seem to be trying to do.

Be all this as it may, I recommend that we do all we can to have this access road built, as the project is a meritorious one and then some.

  
Elgin B. Holt.



✓  
1/29/43  
D.K.



Yucca, Arizona.

Jan. 28, 1943.

Department of Mineral Resources,  
Phoenix, Arizona.

Dear Sirs:

Would like to have one of your  
domestic tungsten contract blanks, which  
came into force Nov. 16, 1942. Have been  
a producer for years, but have never  
come any way near the limit allowed.

Yours truly,  
Dalton Robinett

Box 11.

Yucca, Arizona.

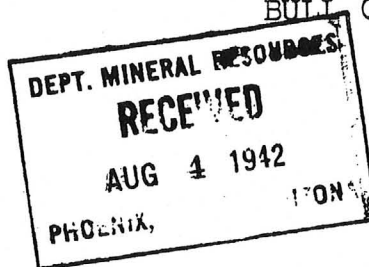
Bull Canyon Tungsten Mine.

August 3, 1942

MEMORANDUM

BULL CANYON TUNGSTEN MINE

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



Re- my letter to Ira B. Jarolemon on the subject of the Bull Canyon Tungsten mine, I wrote this letter at the request of Mr. D. Robinett, owner of this property, inasmuch as he was confused as to just how to go about getting federal aid, and also inasmuch as Jarolemon, as you perhaps know, is consultant for the Metals Reserve Company with the commitment to keep tungsten production up to requirements of this country. Also Jarolemon some time ago visited the Berger property and recommended the granting of another loan, around \$18,000, I believe; and this was put over without delay.

Hence, I thought I was in line to cut corners, Sam, and shoot this letter direct to Jarolemon, in order to cut red tape in this matter; red tape being one of the main bottle necks of our war efforts.

However, I note by your memorandum of July 28th that I guessed wrong, so rest assured in future I will handle any of these matters as you have instructed; for I want to assure you, in the most cooperative spirit, that I had not the least idea I was sticking out my neck; but it seems I did so and then some.

However, it is quite hard to know just what letters to refer to your office, as I get many letters asking for information and if I referred all these to you to answer I would run the risk of being told that the answering of these letters, some of which are of a trivial nature, is my job and not to bother the main office with the same.

However, again, I am doing my best, Sam, to keep in line and refrain from engaging in arguments, which do not get anyone anywhere.

Referring again to the Bull Canyon property, it was my main idea to get Robinett lined out as to what kind of an application to make, and then after this was gotten underway, it was my plan to refer the entire matter to you.

Elgin B. Holt.

August 19, 1942

Mr. W. D. Munds  
Boriana Mine  
Yucca, Arizona

Dear Mr. Munds:

Our engineer, Elgin B. Holt, has had some correspondence with the owner of the Bull Canyon Mine, Mr. Robinett. There was some exchange of correspondence with Mr. Ira B. Joralemon representing the Metals Reserve Company in connection with this operation. I am enclosing a copy of a letter just received from Mr. Joralemon and I do think that his suggestion should be heeded.

I am also sending a copy of this letter to Mr. Robinett and I am writing him hoping that the Boriana operations and the Bull Canyon operations can get together on some basis whereby increased production on tungsten may be had. It is very necessary at this time and, as stated by Mr. Joralemon, it would be unsound economically to erect a plant to handle the Bull Canyon tungsten when the Boriana mill has excess milling capacity and is located so close to the other operations.

Yours very truly,

J. S. Coupal, Director

JSC:LP

CC: Mr. D. Robinett  
Mr. Ira B. Joralemon  
Mr. Elgin B. Holt

August 19, 1942

Mr. D. Robinett  
Yucca, Arizona

Dear Mr. Robinett:

I am enclosing a copy of a letter I have just written Mr. Munds of the Boriana Mine and I am also enclosing a copy of a letter just received from Ira B. Joralemon.

It would seem as though some mutually satisfactory arrangements could be made between your operations and the Boriana operations so that one mill would serve a dual purpose. Personalities do enter into such arrangements but under the present emergency it seems as though these should be submerged and we should all work for the general good.

Yours very truly,

J. S. Coupal, Director

JSC:LP  
Enc.

CC: Mr. Ira B. Joralemon  
Mr. Elgin B. Holt  
Mr. W. D. Munds

August 19, 1942

Mr. Ira B. Joralemon  
315 Montgomery Street  
San Francisco, California

Dear Mr. Joralemon:

Your letter of August 10 to Mr. Elgin B. Holt at Kingman and his reply to you have been called to my attention. I am enclosing copies of letters I have just written to Mr. Munds and Mr. Robinett.

I hope we may be able to get these two together and let them forget their personal feelings and work for the common good of increased tungsten production.

It is barely possible that I will be in and around Kingman the first week in September and, if so, I will make it a point to try to get these parties together and discuss with them some plan following out the suggestions in your letter of August 10 to Holt.

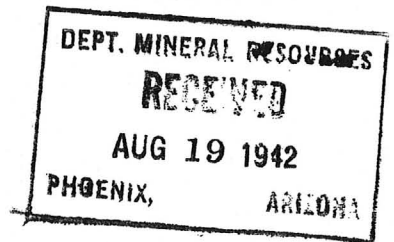
With best wishes and kindest regards, I am

Yours very truly,

J. S. Coupal, Director

JSC:LP  
Enc.

CC: Elgin B. Holt



August 18, 1942

P. O. Box 188,  
Kingman, Ariz.

Mr. Ira B. Joralemon,  
Consultant,  
Metals Reserve Company,  
315 Montgomery St.,  
San Francisco, Calif.

Dear Mr. Joralemon:

Attention is called to your letter of August 10 re-  
the problem of the Bull Canyon tungsten mine, located near  
Boriana.

I note your comments that from the point of view of  
efficient operations, the ore from the Bull Canyon property  
should be treated in the Boriana mill, which is not operating  
at capacity, etc.

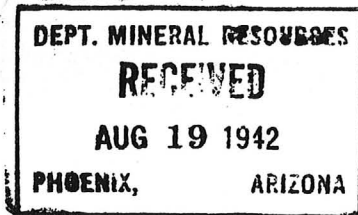
In reply, I am mailing your letter to Mr. J. S. Coupal,  
Director, Department of Mineral Resources, 413 Home Builders  
Bldg., Phoenix, Arizona, for his consideration. Later on you  
may hear from him about this matter.

Very sincerely yours,

Elgin B. Holt,  
Field Engineer.

cc - J. S. Coupal

IRA B. JORALEMON  
315 MONTGOMERY STREET  
SAN FRANCISCO



August 10, 1942.

Mr. Elgin B. Holt, Field Engineer,  
Department of Mineral Resources,  
P. O. Box 188,  
Kingman, Arizona.

Dear Mr. Holt:

Absence from San Francisco delayed me in answering your letter of July 24th.

The problem of the Bull Canyon mine is a difficult one because of its proximity to Borianna. I visited this property a few weeks ago and can assure Mr. Robinett that their development is still a considerable distance from the end line. From the point of view of efficient operations, the ore from the Bull Canyon mine should be treated in the Borianna mill, which is not operating at capacity. I do not see how I can ask the R.F.C. to advance money for a new mill when there is idle capacity a few thousand feet away.

I realize that in view of past relations between the properties, it may be difficult to make an arrangement for milling the ore on a custom basis. However, I hope that in view of the need of the Country for tungsten and the great scarcity in construction supplies and equipment, Mr. Robinett and the Borianna Company may be able to arrange for milling the ore on a custom basis.

Yours sincerely,

*Ira B. Joralemon*

IBJ:CS

cc: Mr. D. Robinett,  
Yucca, Arizona

July 28, 1942

MEMORANDUM

BULL CANYON TUNGSTEN MINE

TO: Elgin B. Holt

FROM: J. S. Coupal

I have your letter of July 24 to Ira B. Jarolemon on the subject of the Bull Canyon Tungsten Mine.

I do not know what prompted you to write this letter but it would appear to me as though correspondence of this nature should pass through this office and then be submitted to a Metals Reserve consultant from this office, rather than direct from you.

If a letter of this type is necessary, you could make the report complete as in your letter and ask that it be transmitted to Mr. Jarolemon or anyone else necessary. As a matter of fact, we have Broadgate in Washington for just this particular purpose.



Bull Canyon

September 8, 1942

Mr. W. H. Munds  
Boriana Mine  
Yucca, Arizona

Dear Mr. Munds:

Many thanks for your letter of August 21 which was received at Kingman and which I have delayed answering until my return to Phoenix.

I have forwarded a copy of this letter to Mr. Elgin B. Holt, our engineer in Phoenix, and I feel sure it will enlighten him as to the problem of assisting Mr. Robinette. When we get only one side of a question such as this, it is apt to be prejudiced and confusing.

Again many thanks for your kind letter.

Very truly yours,

J. E. Coupal,  
Director

JEC:hal

CC: Elgin B. Holt  
Box 188  
Kingman, Arizona

# MOLYBDENUM CORPORATION OF AMERICA

500 FIFTH AVE.

NEW YORK, N. Y.

BORIANA MINE

PLEASE ADDRESS REPLY TO YUCCA, ARIZONA

August 21, 1942

Mr. J. S. Coupal, Director,  
Department of Mineral Resources,  
Kingman, Arizona.

Dear Mr. Coupal:

In answer to your letter of August 19th, we visited Mr. Robinette's mill on August 11th. At that time he was milling tungsten ores, having developed some new water for that purpose.

As you probably know, the Iguanas and Neglected Mining Claims, which comprise the Bull Canyon Group, are now owned by three parties, as follows:

#1	- Molybdenum Corp. of America	--	1/3
#2	- Dalton Robinette	-----	1/3
#3	- Maude May Fettis and Chas. Elmer	-----	1/3

Neither #1 nor #3 knows under just what conditions Robinette is operating these claims. He has not made an accounting to either #1 or #3 for tungsten removed from them to date and has been operating there since 1937.

For this reason and others, we feel that at least we have done nothing to hinder production by Robinette.

Also, the Borigana mill has been and still is open for any custom ores of tungsten which anyone may want to ship here for treatment.

Mr. Hubert Smith, of Kingman, Arizona, is representing Mrs. Fettis and Mr. Elmer. We suggest that you have a talk with him and that you please notify us if we can assist in any reasonable way to get the maximum production.

Yours very truly,

MOLYBDENUM CORPORATION OF AMERICA

By -   
W. H. Munds, Resident Mgr.

DEPT. MINERAL RESOURCES

RECEIVED

JUL 27 1942

PHOENIX, ARIZONA

Bull Canyon Tungsten  
Mine

July 24, 1942

Subject: Tungsten Mine

Elgin B. Holt,  
P. O. Box 188,  
Kingman, Ariz.

Mr. Ira S. Jarolemon, Consultant,  
Metals Reserve Company,  
315 Montgomery St.,  
San Francisco, Calif.

Dear Mr. Jarolemon:

I am writing you in behalf of E. D. Robinett, Yucca, Arizona, lessee of the BULL CANYON TUNGSTEN MINE, located 1 1/2 miles northeasterly from the Boriana tungsten property, with which you are no doubt familiar; the latter property being owned and operated by the Molybdenum Corporation of America.

The said Bull Canyon mine has been worked constantly by lessee for the last seven years. He has been working with a small mill and has been producing 2500 pounds of 69 percent WO<sub>3</sub> concentrate monthly, which is sold to Fernstrom & Co., of Tucson. Robinett usually employs around 12 men, mainly sublessees. Also, this property has been producing tungsten since 1917.

Development work consists of a new cross-cut tunnel, 250 feet in length, which recently cut a two-foot vein, on which some drifting has been done on ore averaging around 2 percent WO<sub>3</sub>, per Robinett. The older workings above this tunnel consists of 5 tunnels, totaling 1000 feet, on veins from 4 inches to better than 2 feet wide, all selectively mined ores running about 3 percent WO<sub>3</sub>.

PROBLEMS. Robinett has recently lost all his water supply for milling due to the Boriana company's extension of their underground workings in such a way that his water supply was tapped. That to remedy this loss of water, it would be necessary to secure gravity water by means of a pipe line one mile in length to a mountain creek that runs for 9 months in the year; or by installing a pump and pipe line one-half mile long to bring water to the present mill site from a perpetual spring and well, with a lift of 300 feet. Either source of water should supply a 25-ton gravity tungsten mill.

Again, Robinett states he needs about \$5,000 with which to build a road one mile long from the Boriana road to his property; transportation over this one mile stretch being by pack animals at the present time.

Referring again to the Borianna workings that tapped the underground water supply of the Bull Canyon property; the said workings cut the main Bull Canyon vein at a depth of 700 feet below the said 250-foot cross-cut tunnel on the Bull Canyon holdings. The vein so tapped has excellent tungsten ore, per Robinett, thereby proving that his main vein goes down at least 700 feet deeper. Also, he states that it is not yet known whether or not Borianna workings have penetrated Bull Canyon ground; Borianna people saying that such is not the case. This of course can be determined by a survey.

He also states that there are 7 claims in the Bull Canyon group, belonging to: Molybdenum Corporation of America, 1/3; Mrs. Maud Fettes, of Kingman, 1/3; and to D. Robinett, 1/3. That he, Robinett, has a perpetual lease on the two thirds belonging to the other owners mentioned. That there are 16 veins carrying tungsten embraced in the 7 claims mentioned.

Robinett is now up against a tough proposition; for he cannot go ahead producing tungsten without enough capital wit, which not only to build the road mentioned and develop the new water supply; but he also needs money sufficient to erect a modern 25-ton gravity concentration mill, as his present small mill is not large enough to handle the low grade ores in the mine. He now has to mine the ore selectively and hold the grade to around 3 percent WO<sub>3</sub>, as stated.

In other words, Robinette wants to apply for a Federal loan with which to meet the cost of building the road, install the pipe line and erect a 25-ton mill. He came to me for advise about this matter; but I am rather at a loss to know exactly what to tell him. So I am writing to you requesting that you write him giving him the information he wants.

In other words, Robinett claims he has ample ore developed to supply a 25-ton mill with selectively mined ore running between say 1 per cent and 3 percent WO<sub>3</sub>. Therefore he is hardly in line to apply for a \$20,000 WFO loan. Again, as he does not own the property outright, but is merely operating as lessee, he is not in line to get a Class A operating loan, in which event he would have to mortgage the mine, as I understand it.

So I am wondering if he could secure the operating and equipment money desired, which might run anywhere from \$30,000 to \$50,000, by dealing through your office with the end in view of getting financed by the Defense Plant Corporation, or some other Federal agency.

Thanking you in advance for any assistance or information you may be able to give to Mr. Robinett in this matter and with kind personal regards, I am

Very sincerely yours,

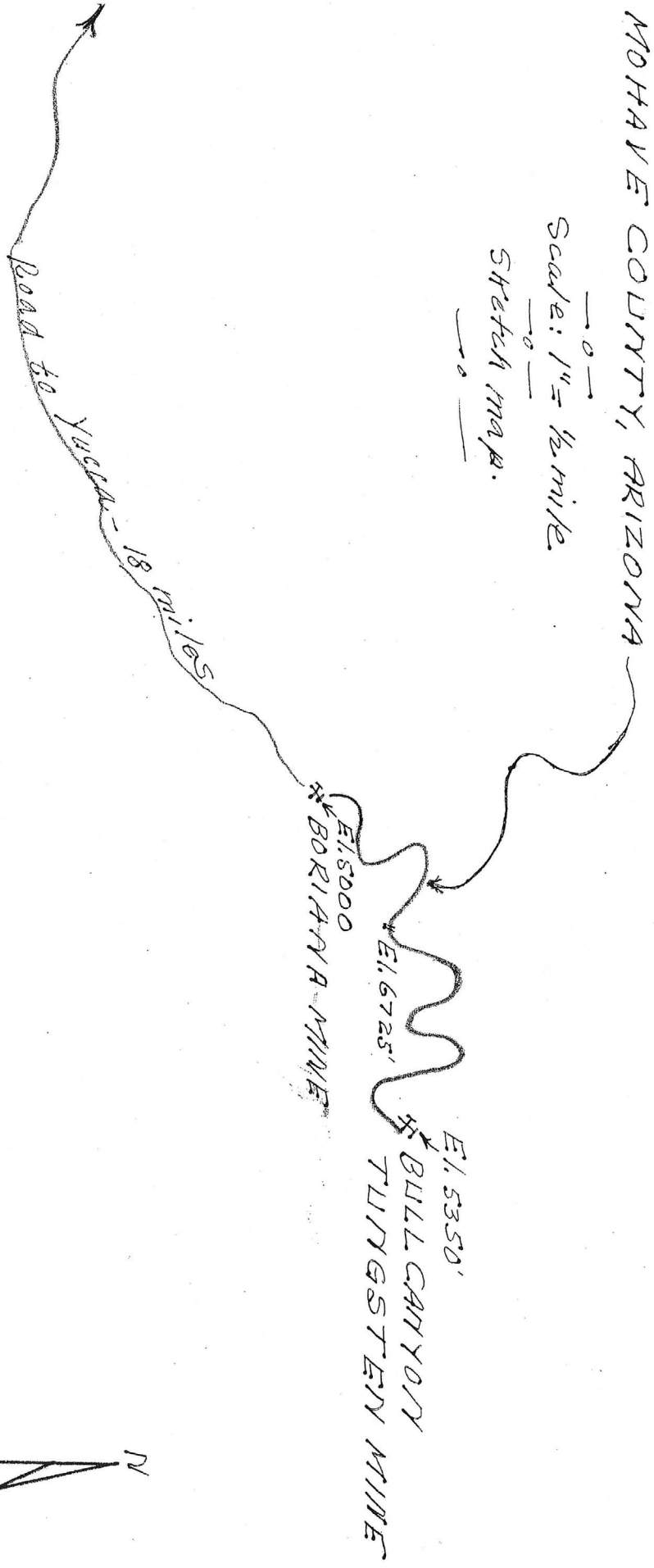
ELGIN B. HOLT,  
Field Engineer.

cc - D. Robinett, Yucca, Ariz.

PROPOSED ACCESS ROAD TO  
BULL CANYON TUNGSTEN MINE  
MOHAVE COUNTY, ARIZONA

Scale: 1" = 1/2 mile

Sketch map.



D. Rabinoff,  
Box 11, Yucca,  
Arizona

STATUS OF DORMANT MINES

MINE NAME: BILL CANYON TUNGSTEN AND TUNGSTENITE GROUP

LOCATION: MOHAVE CO, YUCCA ARIZ.

OWNER AND/OR LEASEE: OWNER - D. ROBINETT

ADDRESS: BOX 501 KINGMAN ARIZONA

APPROXIMATE PRODUCTION (Year of 1945):

COPPER \_\_\_\_\_ Lbs. LEAD \_\_\_\_\_ Lbs.

ZINC \_\_\_\_\_ Lbs. (OTHER) 210 WAITS WO<sub>3</sub>

CHECK THE CHIEF CAUSE OF YOUR DISCONTINUED PRODUCTION:

- (A) Easily available ore worked out. NO
- (B) Increased costs, but have quantity similar to past grade of ore. YES
- (C) Too close a margin to develop more ore. YES
- (D) CHINESE TUNGSTEN, YES FLOODED THE MARKET, DOMESTIC, NOMINAL

If you have ore ready to mine please give your estimate of the amount of metal (name each metal) that you could produce in one year (after allowing 60 days to get started) if there were premiums above present market prices. Name amount with a low premium, and amount at a high premium; such as:

Copper at 22½¢ plus 5¢ premium..... 1,000,000 Lbs.  
 Copper at 22½¢ plus 10¢ premium..... 1,500,000 Lbs.

COULDNT START IN 60 DAYS MILLING  
MILL STOLEN MINE CAVING IN

If you do not have ore ready to mine please discuss the following:

- (A) Do you think a reasonable development program would produce a justified tonnage of commercial ore at above mine?

HAVE PLENTY OF COMERCIAL ORE EASLY OBTAINED

- (B) With a premium price (guaranteed for one year) could you carry out such a development program yourself? What premium?

NO. TAKE CAPITAL TO START.

- (C) If you could not do this yourself, would a quick drilling program by some government agency (at government expense) be sufficient?

NO HAVE PLENTY ORE  
IN SIGHT

- (D) Or would you prefer a loan plan similar to the arrangements during World War II?

WOULD HAVE TO HAVE  
LOAN

How about a combination plan in two stages such as follows?

Stage 1: Government engineers review project and, if a little drilling appears to be justified and a preliminary key to the situation, such drilling program to be agreed upon by owner and government engineer, paid for by the government, but let by contract.

Stage 2: If results of drilling (or without drilling) justify underground development and/or production equipment, same to be obtainable via a mortgage loan on property.

Please discuss the above: YES MORTGAGE LOAN O.K.

WITH \$50,000 LOAN COULD PRODUCE 500  
UNITS PER MONTH \$100,000 LOAN 1000 UNITS  
W/O BUT I PERSONLY BUY WHAT I NEED NO  
RESTRICTIONS FROM SOME BIRD THAT  
DOESN'T KNOW A DAMTHING ABOUT IT  
OR I LET ER LAY, RUINED ANY WAY

SUGGESTIONS:

IF YOU WANT PRODUCTION MANY OF  
US "MINING" CAN GIVE YOU WHAT YOU  
WANT BUT WE GOT TO HAVE A LOAN  
OR SOMETHING. WE ARE BROKE

DATE

Aug 4<sup>th</sup> 1950

SIGNATURE

Dalton Robinson

News: DEPARTMENT OF MINERAL RESOURCES

Service Report

Date July 14, 1951

Mine: Bull Canyon Tungsten

Nature of Call

Location: 16 N.E. of Yucca, Arizona

Place

Owner: Dalton Robbinett

Name

Address Box 501 - Kingman, Arizona

Operating Co.: Same

Subject

Principal Metals: Tungsten

Men employed: 6

Production rate: 2-3 tons per day

Mill type & capacity: None

Power, Amt & Type: Gas Comp.

Action

Mark Gemmill

Signed

Use other side if necessary

COUNTY: MOHAVE

DISTRICT:

METALS: W03

STATUS

Shipping

Idle

Dev. & shipping

Dev. & Ship.

W

Mohave

8 -

T 18 N, R 15 W

D. Robinett, Box 501, Kingman

'44

\*



# DEPARTMENT OF MINERAL RESOURCES

## REPORT TO OPA ON ACTIVE MINING PROJECT

DEPT. MINERAL RESOURCES  
**RECEIVED**  
NOV 3 1944  
PHOENIX, ARIZONA

Date..... Nov. 1, 1944  
 Name of Mine..... Bull Canyon Tungsten  
 Owner or Operator..... D. Robinett  
 Address..... Box 501, Kingman, Ariz.  
 Mine Location..... 20 miles NE of Yucca, Ariz.

**Filing Information**

File System.....  
 File No.....  
 This chart to be used for gallons of gasoline required per month.

**PRESENT OPERATIONS:** (check X)

Production......; Development.....; Financing.....; Sale of mine.....;  
 Experimental (sampling).....; Owner's occasional trip.....;  
 Other (specify).....

**PRODUCTION: Past and Future.**

	Tons	
Approx. tons last 3 months	2.5	tons of 69% WO <sub>3</sub>
Approx. present rate per 3 months	"	" " " "
Anticipated rate next 3 months	"	" " " "
If in distant future check (X) here		

**EQUIPMENT OPERATED:**

Type	Quantity or Horse Power	Miles or Hours Per Month	Gallons Required Per Month
Personal Cars	.....	.....	.....
Light or Service Trucks	.....	.....	.....
Ore Hauling Trucks	.....	.....	.....
Compressors	1 45-HP comp.	100 hours	400
	1 6-HP eng.	40 "	24
Other Mine or Mill Eqpt.	1 3½-HP eng.	40	14
<b>Total</b> -----			<b>438</b>

**PRODUCT PRODUCED OR CONTEMPLATED:** Name metals or minerals.

.....  
**Tungsten concentrates. Has small mill in operation.**

**REMARKS:**

.....  
 Requests 438 gallons of gasoline per month for next three months. I recommend that this amount of gasoline be allowed, as applicant has operated this mine for the last 10 years.  
 .....

**ARIZONA DEPARTMENT OF MINERAL RESOURCES**

By..... Elgin B. Holt  
 Elgin B. Holt, Field Engr.

APPLICATION FOR  
ACCESS ROAD TO RAW MATERIAL

Date: October 28, 1943

Project No. \_\_\_\_\_  
(Leave blank)

Serial No. \_\_\_\_\_  
(Leave blank)

Attention: Mr. G. L. McLane, Senior Highway Engineer  
Public Roads Administration  
P. O. Box 70  
Phoenix, Arizona

TO THE PUBLIC ROADS ADMINISTRATION:

I, the undersigned, hereby make application for access road assistance to serve my property which I believe is essential to the war effort.

I agree to furnish two copies of this application, properly filled out, together with two copies of a map showing the location of the property and the road in question. I will also furnish any other information about this project upon request.

I understand that this application is to be filed with the District Engineer of the Public Roads Administration (whose name is given on this application) in the district where the property is located.

I further agree to furnish any additional right-of-way necessary for the proposed road on property owned, or controlled, by the applicant.

D. Robinett

\_\_\_\_\_  
Name of Applicant

\_\_\_\_\_  
Street address  
P. O. Box 11,

Town  
Yucca

State  
Arizona

\_\_\_\_\_  
Telephone Number  
None

INFORMATION  
FOR MINE ACCESS ROAD

LOCATION OF MINE

State, Arizona ----- County, Mohave ----- Elevation 5350'

Township 18 North; Range 15 West; Sections 7 & 18

Name of Mine or claims: Bull Canyon Tungsten Mine

Mineral Resources Of Property

Kind of minerals or material: Tungsten: Scheelite & Wolframite

Specific nature and extent of sampling, exploration & development:  
See attached letter.

	Tonnage	Assay or analysis
Blocked out	4,000 tons *	1.0%, plus, WO <sub>3</sub>
Probable	50,000 tons	1.0, plus, WO <sub>3</sub>
Possible	400,000 tons	0.75% WO <sub>3</sub>

\* Dumps

PRODUCTION AT MINE

Operating season: Mine can be worked the year round.

Present daily production: 2.5 units of WO<sub>3</sub>, valued at \$67.50  
(25 units of

Estimated daily production with proposed access road: (WO<sub>3</sub>, valued  
at \$675

Number of men to be employed: 5

LOCATION OF MILL OR SMELTER WHERE ORE WILL BE DELIVERED

Name: Small pilot mill now at mine, will not be used if access  
road built, in which event ore will either be sold to  
Township Boriana mill or to the Parker stockpile.

Distance from mine to mill or smelter: Mill located at mine  
(Concentrates packed to Boriana; thence

Type of transportation (hailed by truck to Yucca; thence by  
(rail to Fernstrom Co., Tucson, Ariz.

Daily capacity of mill or smelter: Pilot mill will not be used.

FINANCIAL INFORMATION: Has any Government loan been granted? No.

\*  
ADDITIONAL INFORMATION: See attached letter describing property,  
together with two copies of a map showing location of ~~ef~~ property  
and the road in question. Mine is located on Government lands,  
administred by the GRAZING SERVICE, Phoenix, Arizona.

SUBJECT: ACCESS ROAD PROJECT TO  
BULL CANYON TUNGSTEN MINE

October 28, 1943

Mr. G. L. McLane, Senior Highway Engineer,  
Public Roads Administration,  
P. O. Box 70,  
Phoenix, Arizona.

Dear Mr. McLane:

Your attention is called to the fact that during 1942 I made application for an access road starting at the Borianna mine, Mohave County, Arizona, and ending at my property, the Bull Canyon Tungsten mine, located about one mile northeast of Borianna and covering the northeast extension of the veins of this property.

During January of this year, an engineer representing the U. S. Bureau of Mines examined my property and the said access road project, and I understand he made a favorable report on both the mine and the project. However, the War Production Board turned the project down, for reasons best known to that Board.

For your information, I have been a producer of tungsten from the Bull Canyon property since June 15, 1934; but my work has been handicapped greatly due to the fact that there is no road at all between Borianna and my property. Hence, all mine and other supplies must be packed on animals from Borianna to property, and tungsten concentrates or ore packed back for shipment to tungsten dealers. There is a good mountain and desert road leading from Borianna 18 miles to Yucca, a station on the Santa Fe Railroad.

Your attention is also called to the fact that at least four access road projects have been approved to mining districts in this county, in which no mines in these areas are in actual production at this time, although these roads will no doubt be useful later on. On the other hand, my property has been in continuous production of a metal needed in the war effort for the last nine years; and notwithstanding the fact that I have a considerable tonnage of tungsten ore now opened up ready to be mined and marketed, my road project was denied.

Attached hereto is a report on the Bull Canyon mine by Elgin B. Holt, Field Engineer, Department of Mineral Resources of Arizona. This report gives a good description of my property and its splendid possibilities. I am submitting it to you for your consideration.

Also attached hereto is a new application I have drawn up for an access road over the route above described. I am now asking that you consider this project strictly on its merits, paying no attention to any adverse reports regarding this project by my neighbors, who for ulterior motives would like to see me fail in my long efforts to make a still larger success in operating the Bull Canyon mine.

Very sincerely yours,

D. Robinett,  
Box 11, Yucca, Ariz.

cc - J. S. Coupal

304 xx

March 17, 1944

Metals Reserve Company  
Mr. DeWitt C. Schieck, Vice President  
Washington, D. C.

Gentlemen:

At the request of Dalton Robinett,  
owner of the Bull Canyon Tungsten Mine at Yucca,  
Mohave County, Arizona, we are forwarding to you  
two copies of affidavit No. 1 duly executed before  
Notary.

Very truly yours,

J. S. Coupel, Director

JSC:LP  
Enc.

CC: Mr. Dalton Robinett

November 2, 1943

Mr. G. L. McLane  
Senior Highway Engineer  
Public Roads Administration  
P. O. Box 70  
Phoenix, Arizona

Dear Mr. McLane:

Subject: Bull Canyon Tungsten Mine  
Access Road

At the request of D. Robinett, P. O. Box 11,  
Yucca, Arizona, I am enclosing two reports on  
the Bull Canyon Tungsten and also sketch of the  
proposed new road.

Yours very truly,

J. S. Coupal, Director

JSC:LP  
Enc.

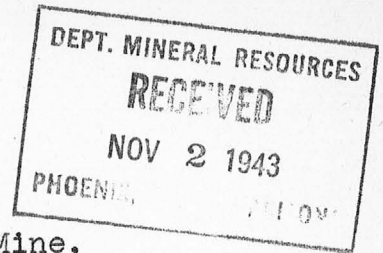
November 1, 1943

MEMORANDUM

To: J. S. Coupal

From: Elgin B. Holt

Subject: Access Road to Bull Canyon Tungsten Mine, D. Robinett, Yucca, Arizona. This project was turned down by WPB and Robinett is asking that it be reconsidered.



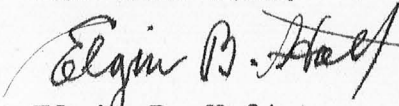
Referring to your memorandum of August 24th concerning access roads, I note you state you have talked to the Grazing Service suggesting that they reconsider some of the roads that have been rejected.

Also, I note ~~by~~ your memorandum of October 2 stating that the proper procedure is to file applications for access roads with G. L. McLane, Public Roads Administration, P. O. Box 70, Phoenix, Arizona, using Form PR-DA-3, which you enclosed.

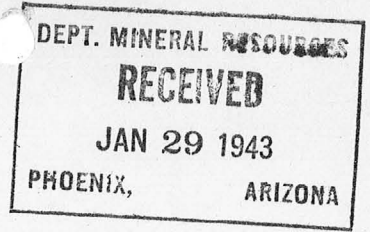
I am writing you to advise that I visited the Bull Canyon Tungsten mine, with D. Robinett, who owns and controls it, on October 25th. Herewith enclosed is my report on this property, also a copy of the new access road project to the said property, or more properly a copy of the application for the said project.

CONFIDENTIAL: Robinett advises me that the reason why his access road project was turned down was that officials of Borianna took steps in some way or other to oppose the approval of this project, due to the fact that Borianna is anxious to freeze him out so they may get hold of Bull Canyon mine for nothing. I do not think there is any question of doubt that this is true, as Borianna is owned by a bunch of New York Jews of very bad reputation wherever they operate. It seems to me if they want to get rid of Robinett they should buy him out at a fair figure and not try to gyp him out of his interests in Bull Canyon as they seem to be trying to do.

Be all this as it may, I recommend that we do all we can to have this access road built, as the project is a meritorious one and then some.

  
Elgin B. Holt.

✓  
1/29/43  
D.R.



Yucca, Arizona.

Jan. 28, 1943.

Department of Mineral Resources,  
Phoenix, Arizona.

Dear Sir:

Would like to have one of your  
domestic tungsten contract blanks, which  
came into force Nov. 16, 1942. Have been  
a producer for years, but have never  
come any way near the limit allowed.

Yours truly,  
Dalton Robinett

Box 11.

Yucca, Arizona.

Bull Canyon Tungsten Mine.

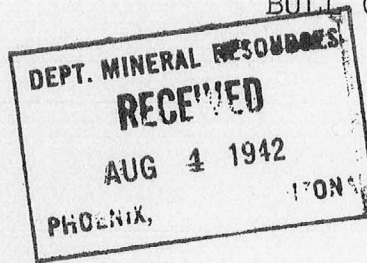


August 3, 1942

MEMORANDUM

BULL CANYON TUNGSTEN MINE

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



Re- my letter to Ira B. Jarolemon on the subject of the Bull Canyon Tungsten mine, I wrote this letter at the request of Mr. D. Robinett, owner of this property, inasmuch as he was confused as to just how to go about getting federal aid, and also inasmuch as Jarolemon, as you perhaps know, is consultant for the Metals Reserve Company with the commitment to keep tungsten production up to requirements of this country. Also Jarolemon some time ago visited the Berger property and recommended the granting of another loan, around \$18,000, I believe; and this was put over without delay.

Hence, I thought I was in line to cut corners, Sam, and shoot this letter direct to Jarolemon, in order to cut red tape in this matter; red tape being one of the main bottle necks of our war efforts.

However, I note by your memorandum of July 28th that I guessed wrong, so rest assured in future I will handle any of these matters as you have instructed; for I want to assure you, in the most cooperative spirit, that I had not the least idea I was sticking out my neck; but it seems I did so and then some.

However, it is quite hard to know just what letters to refer to your office, as I get many letters asking for information and if I referred all these to you to answer I would run the risk of being told that the answering of these letters, some of which are of a trivial nature, is my job and not to bother the main office with the same.

However, again, I am doing my best, Sam, to keep in line and refrain from engaging in arguments, which do not get anyone anywhere.

Referring again to the Bull Canyon property, it was my main idea to get Robinett lined out as to what kind of an application to make, and then after this was gotten underway, it was my plan to refer the entire matter to you.

Elgin B. Holt.

August 19, 1942

Mr. W. D. Munds  
Boriana Mine  
Yucca, Arizona

Dear Mr. Munds:

Our engineer, Elgin B. Holt, has had some correspondence with the owner of the Bull Canyon Mine, Mr. Robinett. There was some exchange of correspondence with Mr. Ira B. Joralemon representing the Metals Reserve Company in connection with this operation. I am enclosing a copy of a letter just received from Mr. Joralemon and I do think that his suggestion should be heeded.

I am also sending a copy of this letter to Mr. Robinett and I am writing him hoping that the Boriana operations and the Bull Canyon operations can get together on some basis whereby increased production on tungsten may be had. It is very necessary at this time and, as stated by Mr. Joralemon, it would be unsound economically to erect a plant to handle the Bull Canyon tungsten when the Boriana mill has excess milling capacity and is located so close to the other operations.

Yours very truly,

J. S. Coupal, Director

JSC:LP

CC: Mr. D. Robinett  
Mr. Ira B. Joralemon  
Mr. Elgin B. Holt

August 19, 1942

Mr. D. Robinett  
Yucca, Arizona

Dear Mr. Robinett:

I am enclosing a copy of a letter I have just written Mr. Munds of the Boriana Mine and I am also enclosing a copy of a letter just received from Ira B. Joralemon.

It would seem as though some mutually satisfactory arrangements could be made between your operations and the Boriana operations so that one mill would serve a dual purpose. Personalities do enter into such arrangements but under the present emergency it seems as though these should be submerged and we should all work for the general good.

Yours very truly,

J. S. Coupal, Director

JSC:LP  
Enc.

CC: Mr. Ira B. Joralemon  
Mr. Elgin B. Holt  
Mr. W. D. Munds

August 19, 1942

Mr. Ira B. Joralemon  
315 Montgomery Street  
San Francisco, California

Dear Mr. Joralemon:

Your letter of August 10 to Mr. Elgin B. Holt at Kingman and his reply to you have been called to my attention. I am enclosing copies of letters I have just written to Mr. Munds and Mr. Robinett.

I hope we may be able to get these two together and let them forget their personal feelings and work for the common good of increased tungsten production.

It is barely possible that I will be in and around Kingman the first week in September and, if so, I will make it a point to try to get these parties together and discuss with them some plan following out the suggestions in your letter of August 10 to Holt.

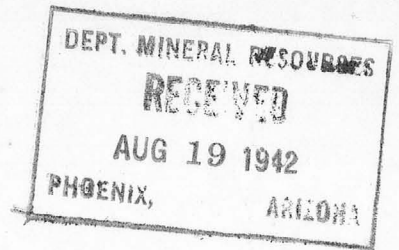
With best wishes and kindest regards, I am

Yours very truly,

J. S. Coupal, Director

JSC:LP  
Enc.

CC: Elgin B. Holt



August 18, 1942

P. O. Box 188,  
Kingman, Ariz.

Mr. Ira B. Joralemon,  
Consultant,  
Metals Reserve Company,  
315 Montgomery St.,  
San Francisco, Calif.

Dear Mr. Joralemon:

Attention is called to your letter of August 10 re-  
the problem of the Bull Canyon tungsten mine, located near  
Boriana.

I note your comments that from the point of view of  
efficient operations, the ore from the Bull Canyon property  
should be treated in the Boriana mill, which is not operating  
at capacity, etc.

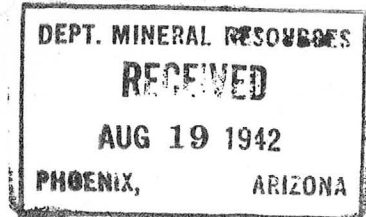
In reply, I am mailing your letter to Mr. J. S. Coupal,  
Director, Department of Mineral Resources, 413 Home Builders  
Bldg., Phoenix, Arizona, for his consideration. Later on you  
may hear from him about this matter.

Very sincerely yours,

Elgin B. Holt,  
Field Engineer.

cc - J. S. Coupal

IRA B. JORALEMON  
315 MONTGOMERY STREET  
SAN FRANCISCO



August 10, 1942.

Mr. Elgin B. Holt, Field Engineer,  
Department of Mineral Resources,  
P. O. Box 188,  
Kingman, Arizona.

Dear Mr. Holt:

Absence from San Francisco delayed me in answering  
your letter of July 24th.

The problem of the Bull Canyon mine is a difficult  
one because of its proximity to Borianna. I visited this  
property a few weeks ago and can assure Mr. Robinett that  
their development is still a considerable distance from the  
end line. From the point of view of efficient operations,  
the ore from the Bull Canyon mine should be treated in the  
Borianna mill, which is not operating at capacity. I do not  
see how I can ask the R.F.C. to advance money for a new mill  
when there is idle capacity a few thousand feet away.

I realize that in view of past relations between  
the properties, it may be difficult to make an arrangement for  
milling the ore on a custom basis. However, I hope that in  
view of the need of the Country for tungsten and the great  
scarcity in construction supplies and equipment, Mr. Robinett  
and the Borianna Company may be able to arrange for milling the  
ore on a custom basis.

Yours sincerely,

*Ira B. Joralemon*

IBJ:CS

cc: Mr. D. Robinett,  
Yucca, Arizona

July 28, 1942

MEMORANDUM

BULL CANYON TUNGSTEN MINE

TO: Elgin B. Holt

FROM: J. S. Coupal

I have your letter of July 24 to Ira B. Jarolemon on the subject of the Bull Canyon Tungsten Mine.

I do not know what prompted you to write this letter but it would appear to me as though correspondence of this nature should pass through this office and then be submitted to a Metals Reserve consultant from this office, rather than direct from you.

If a letter of this type is necessary, you could make the report complete as in your letter and ask that it be transmitted to Mr. Jarolemon or anyone else necessary. As a matter of fact, we have Broadgate in Washington for just this particular purpose.

Bull Canyon

September 6, 1942

Mr. W. H. Munds  
Horiana Mine  
Yucca, Arizona

Dear Mr. Munds:

Many thanks for your letter of August 21 which was received at Kingman and which I have delayed answering until my return to Phoenix.

I have forwarded a copy of this letter to Mr. Elgin B. Holt, our engineer in Phoenix, and I feel sure it will enlighten him as to the problem of assisting Mr. Robinette. When we get only one side of a question such as this, it is apt to be prejudiced and confusing.

Again many thanks for your kind letter.

Very truly yours,

J. S. Coupal,  
Director

JSC:hal

CC: Elgin B. Holt  
Box 188  
Kingman, Arizona



# MOLYBDENUM CORPORATION OF AMERICA

500 FIFTH AVE.

NEW YORK, N. Y.

BORIANA MINE

PLEASE ADDRESS REPLY TO YUCCA, ARIZONA

August 21, 1942

Mr. J. S. Coupal, Director,  
Department of Mineral Resources,  
Kingman, Arizona.

Dear Mr. Coupal:

In answer to your letter of August 19th, we visited Mr. Robinette's mill on August 11th. At that time he was milling tungsten ores, having developed some new water for that purpose.

As you probably know, the Iguanas and Neglected Mining Claims, which comprise the Bull Canyon Group, are now owned by three parties, as follows:

#1	-✓ Molybdenum Corp. of America	--	1/3
#2	-✓ Dalton Robinette	-----	1/3
#3	-✓ Maude May Fettis and Chas. Elmer	-----	1/3

Neither #1 nor #3 knows under just what conditions Robinette is operating these claims. He has not made an accounting to either #1 or #3 for tungsten removed from them to date and has been operating there since 1937.

For this reason and others, we feel that at least we have done nothing to hinder production by Robinette.

Also, the Borianna mill has been and still is open for any custom ores of tungsten which anyone may want to ship here for treatment.

Mr. Hubert Smith, of Kingman, Arizona, is representing Mrs. Fettis and Mr. Elmer. We suggest that you have a talk with him and that you please notify us if we can assist in any reasonable way to get the maximum production.

Yours very truly,

MOLYBDENUM CORPORATION OF AMERICA

By - *W. H. Munds*  
W. H. Munds, Resident Mgr.

\*

DEPT. MINERAL RESOURCES

RECEIVED

JUL 27 1942

PHOENIX,

ARIZONA

July 24, 1942

Bull Canyon Tungsten  
Mine

Subject: Tungsten Mine

Elgin B. Molt,  
P. O. Box 188,  
Kingman, Ariz.

Mr. Ira B. Jarolemon, Consultant,  
Metals Reserve Company,  
315 Montgomery St.,  
San Francisco, Calif.

Dear Mr. Jarolemon:

I am writing you in behalf of Mr. D. Robinett, Tucson, Arizona, lessee of the BULL CANYON TUNGSTEN MINE, located 1½ miles northeasterly from the Borianna tungsten property, with which you are no doubt familiar; the latter property being owned and operated by the Molybdenum Corporation of America.

The said Bull Canyon mine has been worked constantly by lessee for the last seven years. He has been working with a small mill and has been producing 2500 pounds of 69 percent WO<sub>3</sub> concentrate monthly, which is sold to Fernstrom & Co., of Tucson. Robinett usually employs around 12 men, mainly sublessees. Also, this property has been producing tungsten since 1917.

Development work consists of a new cross-cut tunnel, 250 feet in length, which recently cut a two-foot vein, on which some drifting has been done on ore averaging around 2 percent WO<sub>3</sub>, per Robinett. The older workings above this tunnel consists of 6 tunnels, totaling 1000 feet, on veins from 4 inches to better than 2 feet wide, all selectively mined ores running about 3 percent WO<sub>3</sub>.

PROBLEMS: Robinett has recently lost all his water supply for milling due to the Borianna company's extension of their underground workings in such a way that his water supply was tapped. That to remedy this loss of water, it would be necessary to secure gravity water by means of a pipe line one mile in length to a mountain creek that runs for 9 months in the year; or by installing a pump and pipe line one-half mile long to bring water to the present mill site from a perpetual spring and well, with a lift of 300 feet. Either source of water should supply a 25-ton gravity tungsten mill.

Again, Robinett states he needs about \$5,000 with which to build a road one mile long from the Borianna road to his property; transportation over this one mile stretch being by pack animals at the present time.

Referring again to the Borianna workings that tapped the underground water supply of the Bull Canyon property; the said workings cut the main Bull Canyon vein at a depth of 700 feet below the said 250-foot cross-cut tunnel on the Bull Canyon holdings. The vein so tapped has excellent tungsten ore, per Robinett, thereby proving that his main vein goes down at least 700 feet deeper. Also, he states that it is not yet known whether or not Borianna workings have penetrated Bull Canyon ground; Borianna people saying that such is not the case. This of course can be determined by a survey.

He also states that there are 7 claims in the Bull Canyon group, belonging to: Molybdenum Corporation of America, 1/3; Mrs. Maud Feltis, of Kingman, 1/3; and to D. Robinett, 1/3. That he, Robinett, has a perpetual lease on the two thirds belonging to the other owners mentioned. That there are 16 veins carrying tungsten embraced in the 7 claims mentioned.

Robinett is now up against a tough proposition; for he cannot go ahead producing tungsten without enough capital with which not only to build the road mentioned and develop the new water supply; but he also needs money sufficient to erect a modern 25-ton gravity concentration mill, as his present small mill is not large enough to handle the low grade ores in the mine. He now has to mine the ore selectively and hold the grade to around 3 percent WO<sub>3</sub>, as stated.

In other words, Robinette wants to apply for a Federal loan with which to meet the cost of building the road, install the pipe line and erect a 25-ton mill. He came to me for advise about this matter; but I am rather at a loss to know exactly what to tell him. So I am writing to you requesting that you write him giving him the information he wants.

In other words, Robinett claims he has ample ore developed to supply a 25-ton mill with selectively mined ore running between say 1 per cent and 3 percent WO<sub>3</sub>. Therefore he is hardly in line to apply for a \$20,000 RFC loan. Again, as he does not own the property outright, but is merely operating as lessee, he is not in line to get a Class A operating loan, in which event he would have to mortgage the mine, as I understand it.

So I am wondering if he could secure the operating and equipment money desired, which might run anywhere from \$30,000 to \$50,000, by dealing through your office with the end in view of getting financed by the Defense Plant Corporation, or some other Federal agency.

Thanking you in advance for any assistance or information you may be able to give to Mr. Robinett in this matter and with kind personal regards, I am

Very sincerely yours,

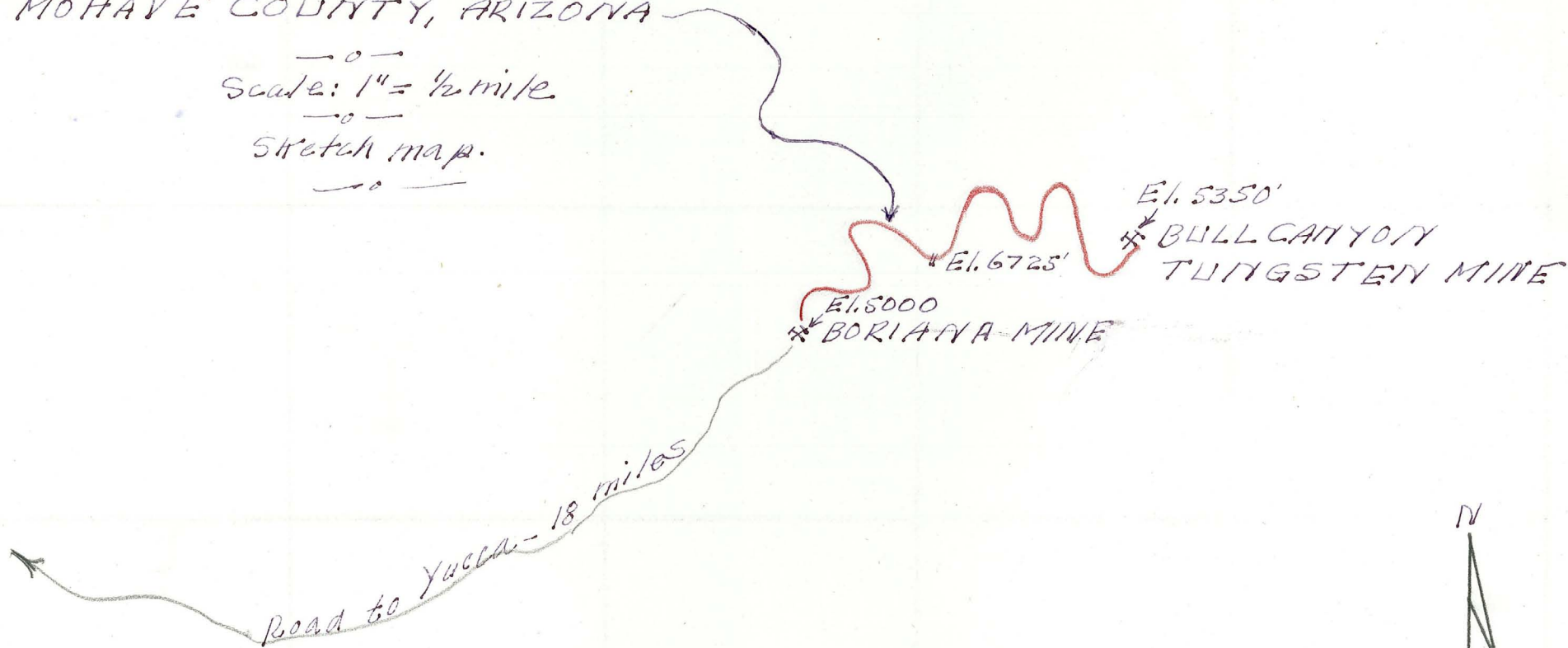
ELGIN B. HOLT,  
Field Engineer.

cc - D. Robinett, Yucca, Ariz.  
J. S. Coupal, Phoenix, Ariz.

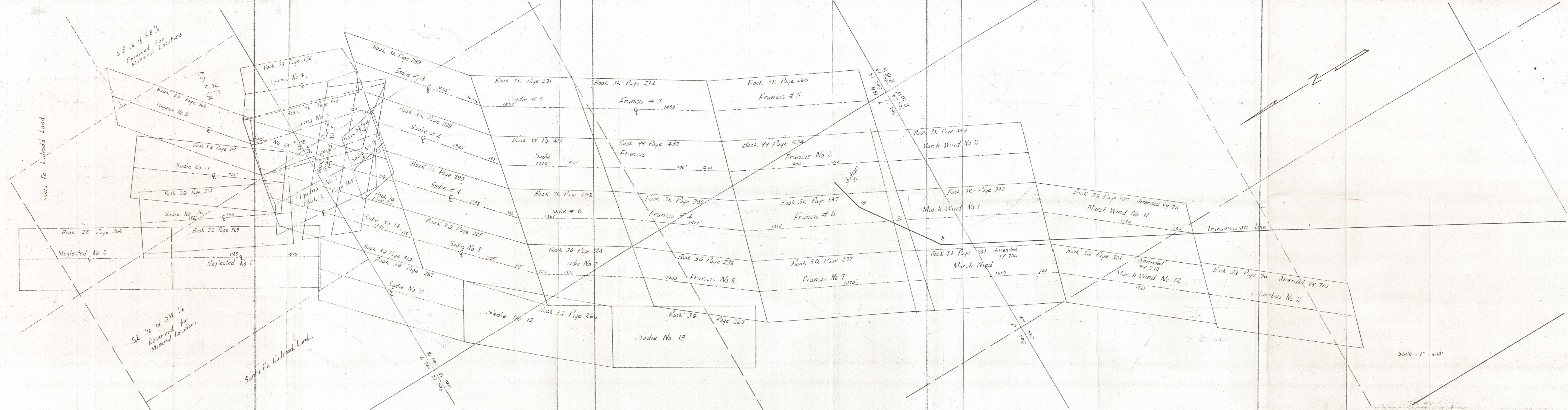
PROPOSED ACCESS ROAD TO  
BULL CANYON TUNGSTEN MINE  
MOHAVE COUNTY, ARIZONA

—o—  
Scale: 1" = 1/2 mile

—o—  
Sketch map.



D. Robinette,  
Box 11, Yucca,  
Arizona.



MAP OF MINING CLAIMS  
 CEDAR VALLEY MINING DISTRICT,  
 MOHAVE COUNTY, ARIZONA  
 owned by:  
 BORTIANA MINING COMPANY