



CONTACT INFORMATION

Mining Records Curator
Arizona Geological Survey
1520 West Adams St.
Phoenix, AZ 85007
602-771-1601
<http://www.azgs.az.gov>
inquiries@azgs.az.gov

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05/08/86

ARIZONA DEPARTMENT OF MINES AND MINERAL RESOURCES FILE DATA

PRIMARY NAME: EL OSO CLAIMS

ALTERNATE NAMES:

GILA COUNTY MILS NUMBER: 255

LOCATION: TOWNSHIP 5 N RANGE 9 E SECTION 24 QTR. SE
LATITUDE: N 33DEG 45MIN 13SEC LONGITUDE: W 111DEG 22MIN 37SEC

TOPO MAP NAME: BOULDER MTN - 7.5 MIN

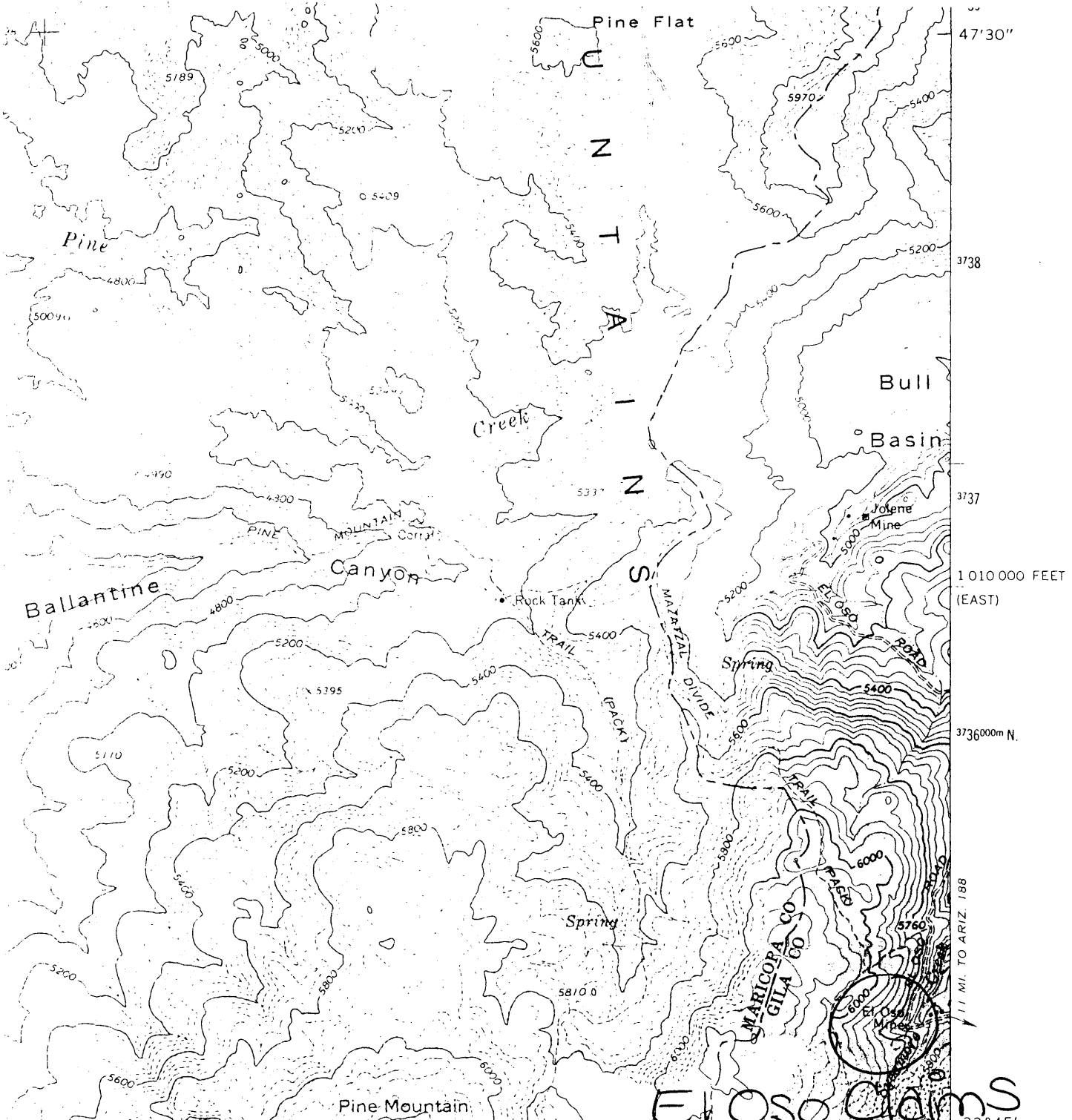
CURRENT STATUS: PAST PRODUCER

COMMODITY:

TUNGSTEN-(M)W03 CONTENT -
PRIMARY

BIBLIOGRAPHY:

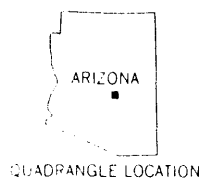
USGS BOULDER MTN QUAD
ADMMR EL OSO CLAIMS FILE
DALE V B TUNGSTEN DEPTS GILA YAVAPAI & MOHAVE
CTYS USGM IC 8078 1961 P 11
WILSON E D TUNGSTEN DEPTS OF AZ AZBM BULL 148
1941 P 31
CLAIMS EXTEND INTO S 25-T9N-R5E & 30-T10N-R5E



25' 462 463 464000 E 130000 FEET EAST 111° 22' 30" 33° 45' 11 MI. TO ARIZ. 188

El Oso Claims
 5N 4E 24 SE
 FOUR PEAKS

ROAD CLASSIFICATION
 Medium-duty ——— Light-duty ———
 Unimproved dirt - - - - - State Route ○



BOULDER MTN, ARIZ.
 N3345—W11122.5/7.5

1964
 AMS 3751 IV SW—SERIES V898

7
 MA

10/15/53

El Oso

10. R. Berry } Lessee
Lee Solomon }

15 N of R. Dam

Turn left at sign
El Oso.

Not wood letters
orange.

12 miles 83 gals to
Camp at end of road.

2500 to 5500 in 12 miles



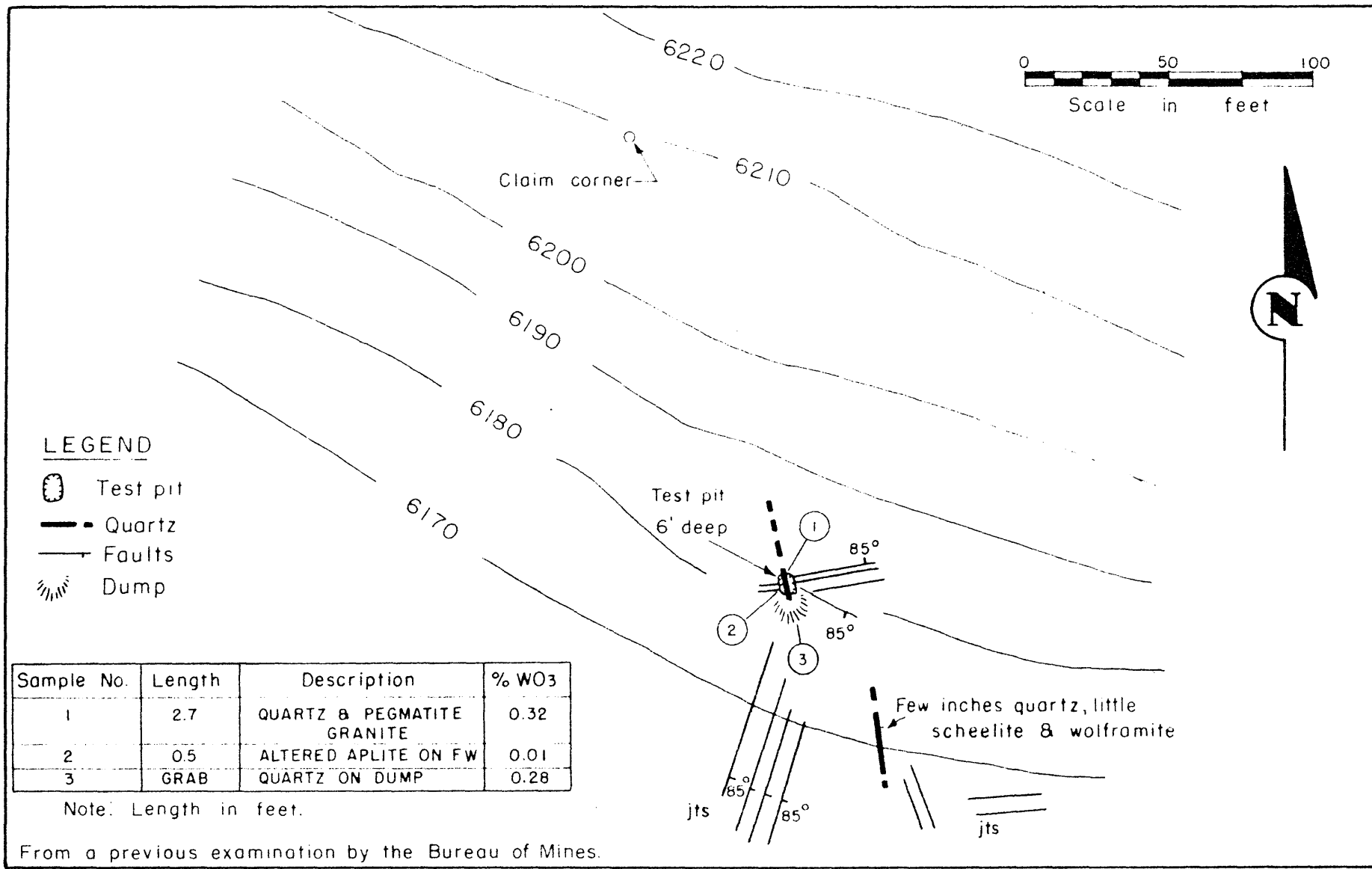


Figure 10. Transit - Stadia survey - El Oso No. 7 tungsten claim

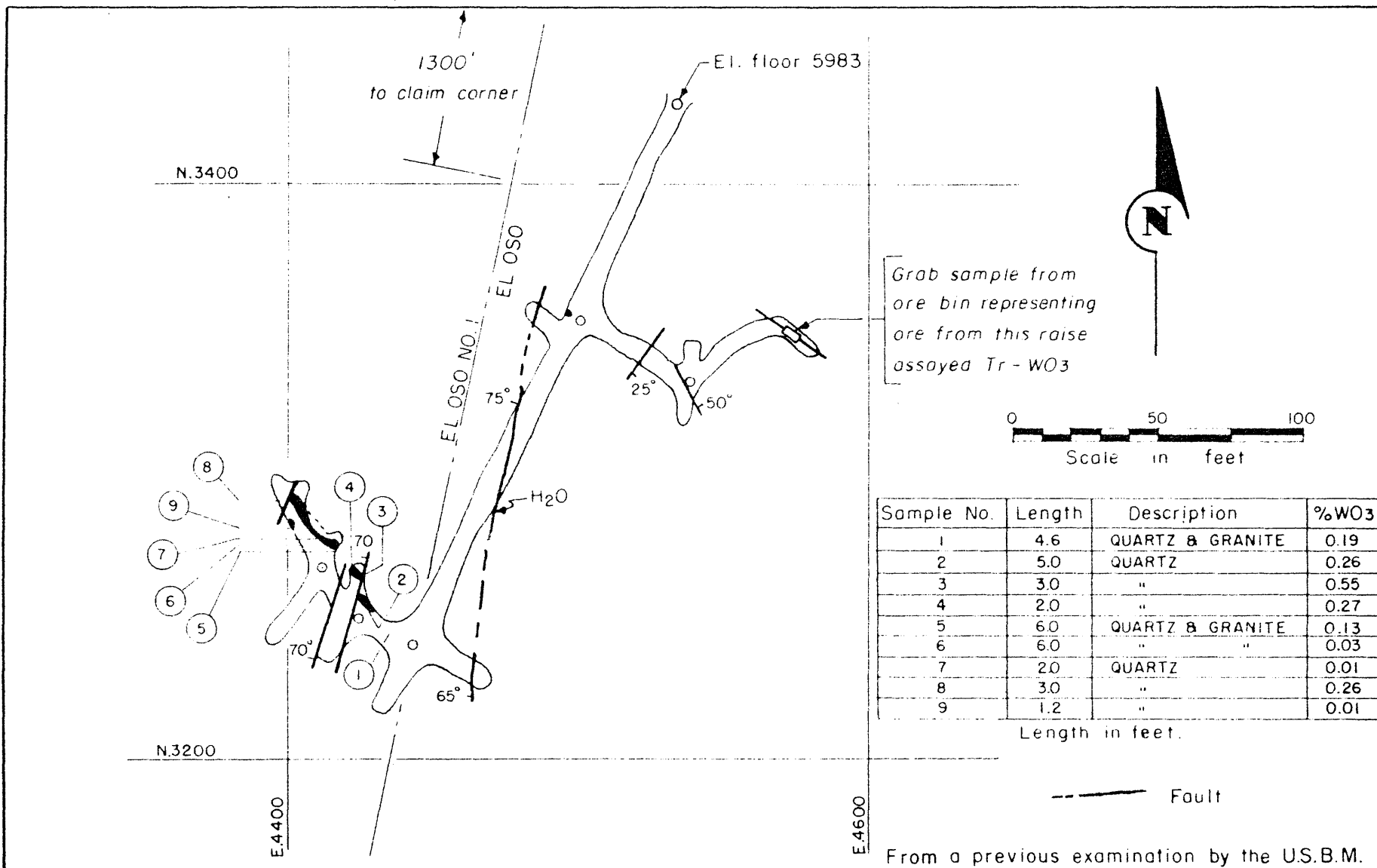


Figure 9. Tunnel- El Oso tungsten.

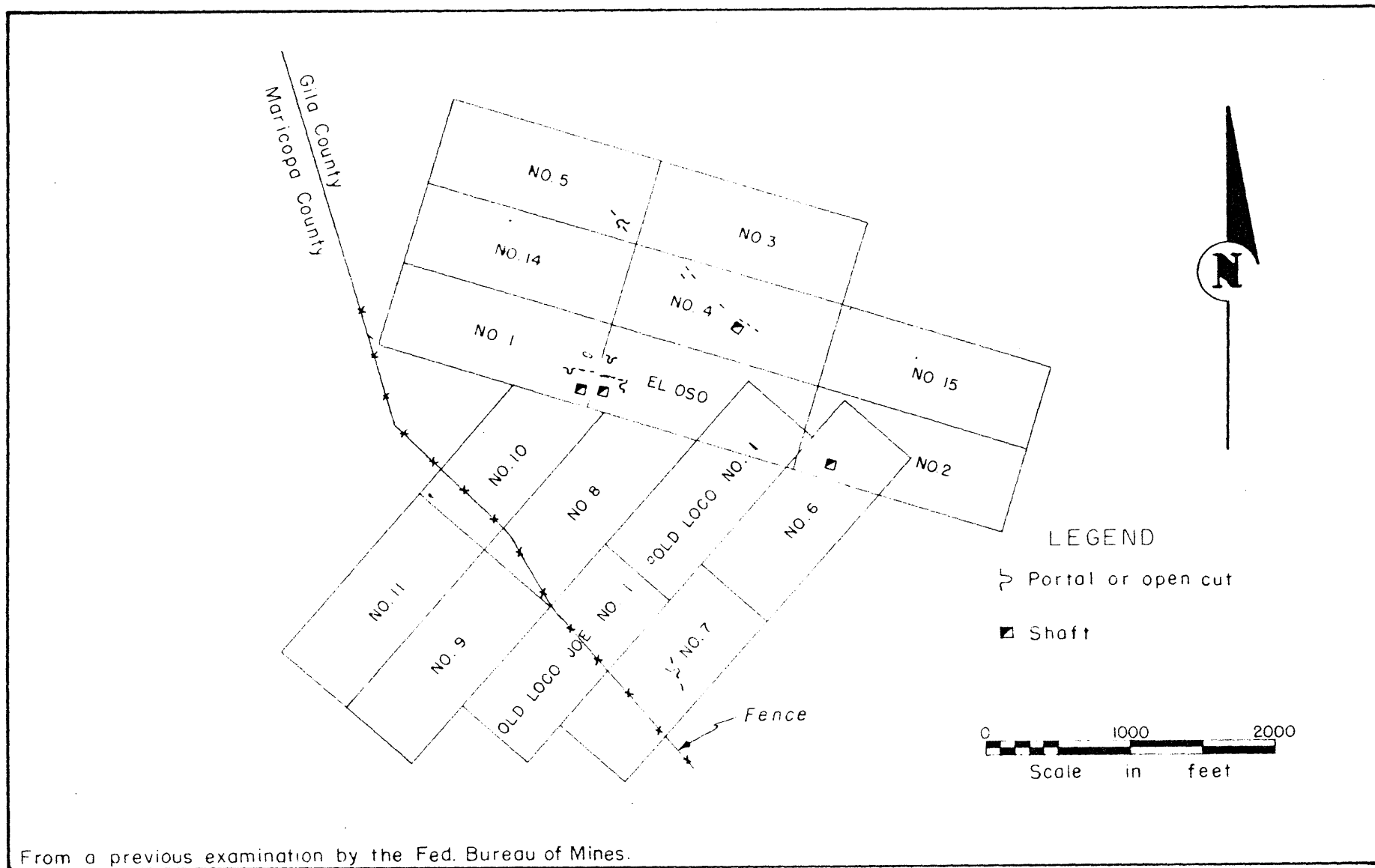


Figure 6 - Claim map of El Oso group.

Owner: Paul and Wendal Harrison & Clay R. Thorne

Underlease to GMT President, Clay R. Thorne

Operations: Present 1 - Extended 100 Ft. Shaft, 1-20 Ft. Shaft
Numerous 8" Shafts

At 12:20 I took out the file on the El Oso Tungsten Mine

Clay R. Thorne

5/17/78 a.p.

El Oso Tungsten Mine
Clay R. Thorne
5/17/78

DEPARTMENT OF MINERAL RESOURCES
STATE OF ARIZONA

ME-22

MINE OWNER'S REPORT

Date: April 29, 1942

Mine: El Oso Tungsten Mines

District: Four Peaks, Gila & Maricopa Cos. Location: In Mazatzal Mountains about 7 miles northerly from Four Peaks - near summit of range.

Former name: New discovery

Owners: P. J., H. G., E. R. Harrison and Bern Swensk Address: Payson, Arizona

Operator: Owners Address, Payson, Arizona

President Gen. Mgr.: P. J. Harrison

Mine Supt. Mill Supt.

Principal Metals: Tungsten Men Employed

Production Rate Mill - Type & Cap.

Power - Amt. & Type

Operations - Present: 1 - 25' shaft, 1 - 20' shaft - numerous 8' shafts, open cuts and trenching.

Operations Planned: Owners desire to lease, with option, to reliable company, or individuals for further development.

Number Claims, Title, etc.: 14 unpatented claims - 10 of record in Gila Co. and 4 in Maricopa Co.

Description - Topog. & Geog.: See Engineers Report and page 31 of bulletin 148

Mine Workings - Amt. & Condition: See above and engineer's report.

(over)

Geology & Mineralization: See Engineers Report and Bureau of Mines Bulletin.

Ore - Positive & Probable, Ore Dumps, Tailings: Excellent showings on all 14 claims. There are 16 different veins exposed, averaging from 6" to 8' in width - with values averaging better than $1\frac{1}{2}\%$ WO_3 .

Mine, Mill Equipment & Flow Sheet

Road Conditions, Route: See engineer's report.

Water Supply: Springs that will furnish sufficient water for a 50 ton mill.

Brief History: See bulletin.

Special Problems, Reports Filed:

Remarks: Considerable work has been done since engineer's report and visit of Bureau of Mines Geologist with gratifying results.

If property for sale - Price, terms and address to negotiate: Will lease with option to right parties on very liberal terms.

Signed: P. J. Harrison

✓ EL OSO TUNGSTEN PROSPECT
(Harrison Tungsten Prospect - Arizona)

LOCATION: This group of fourteen tungsten claims is located near the top of Pine Mountain in the Mazatzal Range of Central Arizona at an elevation of around 5,500 feet. In an air line, the property is roughly 60 miles east of Phoenix and 20 miles north of the Roosevelt Dam. This is known generally as the Four Peaks Mining Dist.

To reach the property from Phoenix, two routes are optional. The first route crosses the Mazatzal Mountains on the Apache Trail to Roosevelt Lake, in the Tonto Basin, thence North 17 miles to Sycamore Creek, thence back west 14 miles by a good C.C.C. trail to the prospect. Total distance is 110 miles. The second route reaches the Tonto Basin by way of the Bush Highway and Slate Creek Road. This route is approximately 20 miles shorter and probably the better.

The line between Gila County and Maricopa County is the drainage divide of the Mazatzals. This places approximately half of the claims in each of these counties.

TIMBER: In the neighborhood of the claims, there is a good stand of Ponderosa Pine, much of it around ten inches in diameter. Oak, Manzanita and Juniper are also abundant.

WATER: There are several springs on the property which would provide amply for a camp. However, it is very improbable that any or all of these could ever supply a concentrating unit. Most likely ore would have to be hauled eleven miles down into the Tonto Basin where plenty of water would be available near the Tonto River and Roosevelt Lake. The Lake reaches to within a few miles of the foot of Pine Mountain.

GEOLOGY: The entire area is composed of a coarsely crystalline granite of pre-Cambian age. This mass comprises an enormous batholith extending in all directions for many miles which has been stripped of its main mass of invaded rocks and any other formations which may have been present.

The younger sediments and volcanics which are common to this section of Arizona do not occur within this portion of the Mazatzal Range, but lie about it as rim at lower elevations.

Small roof pendants of metamorphics do exist in the general mass of the batholith and while not present within the El Oso Claims, one is known within a mile of the property.

Besides the El Oso Claims, the only other known tungsten of the area occurs in this roof pendant in a prospect known as the 'Jolene Group of Claims owned by Joe Cline, a local rancher.

MINERALIZATION: The tungsten minerals are all found in, or associated with, quartz veins of a pegmatitic character. The highest grade of ore is within the veins themselves while occasionally values will occur within the granite as a disseminated replacement deposit adjacent to prominent ore shoots.

The dominant mineral of the veins is quartz. This usually has a sugar granular or aplitic texture. The associated minerals have a characteristic coarse crystallinity. Crystals of wolframite the size of a clenched fist are not uncommon. Large crystals of feldspar, quartz, mica, tourmaline and fluorite are also conspicuous.

Tungsten occurs as both wolframite and scheelite. Over the area there is a rough 50-50 ratio in the percentage of each mineral present, though locally one or the other may predominate. To the naked eye, wolframite appears to predominate, but under fluorescent light, the scheelite takes on equal importance.

A frequent occurrence of the scheelite is as a fine grained mass surrounding and penetrating crystals of wolframite. The occurrence is so frequent and obvious that there is little question that the scheelite is a reaction product of the wolframite. The only other metallic minerals present and noted were some small flakes of molybdenite and pyrite.

There are two different groups of veins about which the claims have been quite logically and well laid out. In the northern part are the East-West veins (Strike N 75° W, dip north) and in the southern section, the North-South veins (Strike S 24° W, dip west). Each group has about the same number of veins, and about the same number of known ore shoots. The points of intersection of the N-S and E-W veins are not known.

Several of the veins have been traced and well established for distances up to 2,000 feet. Where seen or opened in pits, they have a variable width from knife blade up to ten feet. As far as can be seen over their exposed lengths, the veins are extremely narrow, undoubtedly averaging less than six inches. It is the known wide spots or shoots, that have immediate possibilities. These shoots are scattered all over the fourteen claims and, oddly enough, no one vein has more than one known ore shoot.

The shoots have a width around eight feet with lengths up to twenty feet. There are six important shoots distributed over the No. 1, No. 4, No. 14, No. 10, No. 11, and No. 7 claims. Beside the shoots there is the possibility that some low grade ore might be mined on the No. 11 claim. In this section an especially "juicy" ore shoot has mineralized the granite for more than fifty feet on each side of emplacement. Values in the granite, however, are spotty and mined rock would average less than one-quarter of one percent.

GRADE OF ORE - TONNAGES - VALUE: Because of the pegmatitic nature of the deposit, there is a wide range in the distribution of values even within a few feet in any given shoot.

In the No. 4 vein, which is exposed in a 20-foot shaft, the ore seen will run around one percent. In the strong No. 7 shoot, much of the ore will run two percent to three percent. The other shoots contain values running from half of one percent up to one-half percent. Locally in the shoots ten and twenty percent values in concentrated streaks and balls are common.

I believe that with careful and intelligent mining, a grade of ore around one percent could be produced assuming that the deposit persisted to some reasonable depth. The known extent of the seven shoots that have thus far been found indicates that they should produce around 75 to 100 tons per vertical foot.

Assuming that half of the known shoots played out immediately and that no more were found, a vertical depth of 100 feet on the remaining shoots would yield close to 3,000 tons. Further, for the sake of rough figures assuming a \$20.00 recovery per ton, a gross value figure of \$60,000.00 is arrived at.

DEVELOPMENT - FUTURE POSSIBILITIES - In its present state the property is an extremely raw prospect. Work done so far is little more than assessment work on the claims, and the 20-foot shaft is the only attempt to do any exploration work. I am confident that further surface prospecting will find more ore and there is no reason why prospecting at depth should not also produce results.

The development program would necessarily have to be scattered to explore all of the prospects. I recommend that the No. 4 and No. 1 be developed by short cross-cuts of about 100 feet each which would give 25-30 feet of backs. The No. 7 and No. 11 would have to be developed by shafts. The development of these four would tell the whole story on the property.

ADJACENT PROPERTY - Joe Cline, a local rancher, owns two groups of tungsten claims in this vicinity. One of these groups - the "loco Joe" lies right in the heart of the El Oso Group. It is a good-looking prospect. It should be acquired along with the rest of the group, not only for its tungsten value, but to avoid apex troubles and general nuisance.

Cline also owns a group of claims about one and one-half miles distant called the "Jolene". I did not see this property, but saw a large sample from it that would run around fifty per cent WO₃. If possible, it would probably be best to acquire this group also.

CAPITAL COSTS - The development of the property would require the building of at least ten miles of road. Of this distance, the first seven miles would be up an even ridge of decomposed granite upon which there is the remains of an old wagon road. The last three miles would be more difficult being in harder rock and slightly more rugged country. I estimate the preliminary cost of the first seven miles at \$2,000.00 and of the last three miles at \$3,000.00. The total cost would be \$5,000. I talked to the County Road Maintenance man whose estimate on the job was twenty days with a good-sized bulldozer.

For preliminary prospecting, around 300 feet of crosscut and drifting would be required. (Cost around \$3,000 at \$10.00 per foot.) Also, in the preliminary development program, two small fifty foot prospect shafts are indicated. (Cost of these would run around \$25.00 per foot or \$2,500.00) To shaft cost also must be added at least another 100 feet of drifting at \$12.00 per foot. (Cost \$1,200.00). Adding \$3,000 for miscellaneous expenses to the above, a figure close to \$10,000.00 is arrived at for preliminary prospecting.

Cost of camp and miscellany will run around \$5,000.00.

A fifty-ton reduction unit would probably cost around \$40,000.00

A tabulation of capital costs sets up as follows:

Building Road	\$5,000.00	
Preliminary prospecting	10,000.00	
Camp costs & Mis.	5,000.00	
	<u>20,000.00</u>	cost of Preliminary prospecting
Plant cost	40,000.00	
	<u>60,000.00</u>	Total Capital Costs

OPERATING COSTS - Operating costs on a per ton basis are set up in the following table.

Mining	\$7.00
Reduction	3.00
Hauling (to Tonto Basin)	1.50
Miscellaneous	1.50
	<u>13.00</u>

COST ANALYSIS - Assuming as we did in a previous paragraph, a \$20.00 per ton recovery, the difference between this and \$13.00 operating cost is \$7.00.

Excluding taxes, on this basis it would take around 9,000 tons to return capital cost and additional tonnage of the same grade of ore to return a profit.

CONCLUSIONS - This property is a raw prospect. However, Prospects as good are few and far between. Because of numerous considerations, I believe that this has better than a fifty-fifty chance to open up and make a mine. Though the orebodies showing are small and undeveloped, there is a widespread strength of mineralization that is suggestive that orebodies of real value could be opened up.

San Francisco, California
October 16, 1941

DEPT. MINERAL RESOURCES
RECEIVED
MAY 1 1942
PHOENIX, ARIZONA

DEPARTMENT OF MINERAL RESOURCES
STATE OF ARIZONA
OWNERS MINE REPORT

Date April 29th 1942

Mine El Oso Tungsten Mines.

District Four Peaks

Former name New Discovery

Owner P.J. - H.B. - E.R. Harrison and
Ben Swank

Operator owners

President

Mine Supt.

Principal Metals Tungsten

Production Rate

Power: Amt. & Type

Operations: Present 1-25' shaft - 1-20' shaft - numerous 8' shafts, -
open cuts and trenching.

Operations Planned - Owners desire to lease to, with option, to
reliable company, or individuals for further development

Number Claims, Title, etc. 14 unpatented claims. 10 of Record in Helo Co
and 4 in Maricopa Co.

Description: Topog. & Geog. See Engineers Report. and Page 31
of bulletin #148

Mine Workings: Amt. & Condition See above and engineers Report
also page 31 of bulletin.

Geology & Mineralization

See Engineers Report and Bureau of Mines
Bulletin.

Ore: Positive & Probable, Ore Dumps, Tailings

excellent showings on all
14 claims, there are 16 different veins exposed.
averaging from 6" to 8" in width - with values averaging
better than $1\frac{1}{2}\%$ FeO & O_3 .

Mine, Mill Equipment & Flow Sheet

Road Conditions, Route

See Engineers Report.

Water Supply

Springs that will furnish sufficient water
for a 50 ton mill.

Brief History

See Bulletin.

Special Problems, Reports Filed

Remarks

Considerable work has been done since Engineers
Report and visit of Bureau of Mines Geologists with
satisfactory results.

If property for sale: Price, terms and address to negotiate.

Still lease with option
to right parties on very liberal terms.

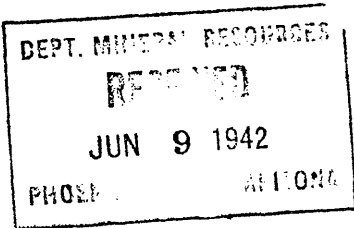
Signed

J. Harrison

Use additional sheets if necessary.

SURVEY OF OPERATING MINES

By: Fred H. Perkins



June 4, 1942

EL OSO GROUP

El Oso Mining Co-partnership

- ✓ H. G. Harrison 1/3 Owner
- ✓ P. J. Harrison 1/3 " — 1954
- ✓ E. R. Harrison 1/6 "
- ✓ Bern Swank 1/6 "

Address: Payson, Arizona

El Oso Mine

Located 7 miles in a westerly direction from Four Peaks at an elevation of 6000 ft. above sea level.
 Can be approached by 4 miles of road and 3 miles of trail from Payson-Roosevelt Highway. This property is on top of the Mazatzal Mountains.

1941 No production. This is a tungsten prospect.

1942 No metal production

The owners have successfully arranged for a government \$20,000 loan.
 At present there are 2 - 20 ft. shafts and 12 open cuts 10 ft. deep.
 Ore is scheelite and wolframite in quartz filled veins in granite.
 Mill tests show mine run 1% tungsten.
 Water enough for a 25 ton concentrator.
 The owners are going to push this development and get to an early production.

DEPARTMENT OF MINERAL RESOURCES
STATE OF ARIZONA
FIELD ENGINEERS REPORT

Mine EL OSO TUNGSTEN MINE ✓

Date March 21, 1956

District FOUR PEAKS, GILA COUNTY

Engineer B. J. SQUIRE

Subject: Activity Report

Location: The El Oso Mine is reached by going north from Roosevelt Dam 13 miles on the Payson highway, turn west, 12 miles to mine which is on the divide 2 miles north of Four Peaks. Road condition is fair.

Principal Minerals: The ore is typical high temperature pegmatite, quartz stringers carrying wolframite and iron sulphides in the granite country rock. The stringers are very narrow and seem to be fairly uniform.

Owners: The owner is Paul Harrison of Payson.

Operators: The last operation was in September 1954 by Olin Beery, of Globe, a lessee. ✓
He had a small ball mill and table gravity mill, which he removed in September, 1955. The property is now idle.

P. C. 8078 pg. 11-16
ABM Bull. 143, p. 31

February 4, 1943

Dr. T. G. Chapman, Director
Arizona Bureau of Mines
University Station
Tucson, Arizona

Dear Tom:

Under separate cover I am sending two samples from the El Oso tungsten property owned by Paul Harrison, Payson, Arizona. Mr. Harrison would like to have determination of the metallic mineral in the small specimen and also the dark colored mineral on one face of the larger specimen and also the metallic lust of mineral occurring with it.

The larger specimen seems of rather high specific gravity. I am wondering if it is due entirely to the metallic minerals or is it spar.

With best wishes and kindest regards, I am

Very truly yours,

J. S. Coupal
Director

JSC:kk

February 4, 1943

Mr. Paul J. Harrison
Payson, Arizona

Dear Mr. Harrison:

I understand that certain samples of the tungsten showing on the El Oso Mine were taken where the ore was cross-cut and that these samples did not hold up to the general average of 2% which you stated to me.

Will you kindly let me know just what the samples taken average and over what width these samples were taken.

In order to properly submit your property to anyone for consideration, I believe much more detailed information must be in my hands before doing so. I have not taken the matter up as mentioned to you simply because I find that the necessary information is not in my hands.

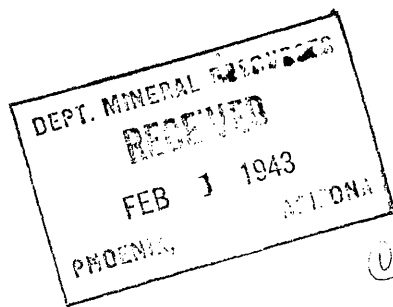
Would it be possible for you to give a rather detailed description of the present workings showing the size and tungsten content of the present openings. I feel sure this information will be necessary before we can get anyone to consider the rather hard trip to your property.

With best wishes and kindest regards, I am

Very truly yours,

J. S. Coupal, Director

JSC:kk



Payson, Arizona
January 28, 1943

Department of Mineral Resources
413 Home Builders Bldg.,
Phoenix, Arizona.

Subject: El Oso Tungsten Mines

Atten: Mr. J. S. Coupal, Director

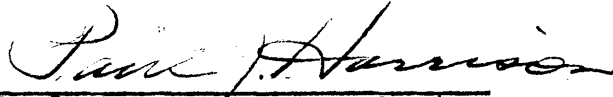
Dear Mr. Coupal,

With reference to my conversation with you last Saturday regarding the above caption, I believe it would be advisable to contact Grady by phone in case you send an Engineer to examine our Tungsten Property; As I am liable to be at the mine most of the time, and we do not get our mail regularly. You will most likely contact Grady at the Ord Mine or at Payson, if there should be any telephone charge in connection with phoning to Grady, please bill me with same.

I suggest this procedure as Grady can arrange to bring the Engineer to our lower camp where we have saddle animals to take him to the mine.

Very truly yours,

El Oso Tungsten Mines


Paul J. Harrison, Supt.

XXXXXXXXXXXXXXXXXXXXXXXXXXXX

413 Home Builders Bldg.

May 20, 1942

Mr. P. J. Harrison
Payson, Arizona

Dear Mr. Harrison:

I am enclosing copies of Mine Owner's Reports filed with this department covering the CA BOB MINE in Gila County and the EL BOO MINE in Gila and Maricopa Counties.

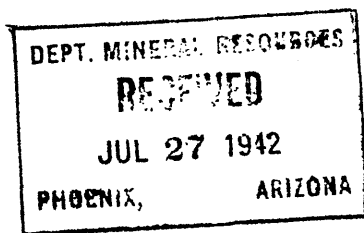
I shall be glad to submit these reports to anyone making inquiry for any property such as yours.

Assuring you of my desire to be helpful, and with best wishes, I am

Yours very truly,

J. S. Czapal, Director

JSC:LP
Enc.

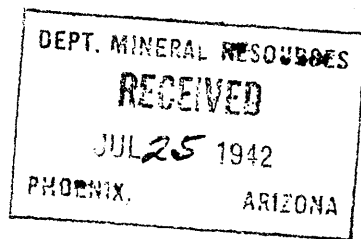


Washington, D.C.
July 25, 1942

SUBJECT: Mine Loan
: Paul J. Harrison
Docket No B-ND-3860

The RFC Legal section called me up this morning and stated that the accounting section and the Treasurer report that this loan is being disbursed.

Bill Broadgate

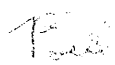


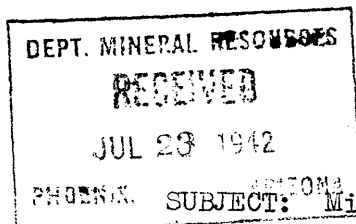
Washington, D.C.
July 23, 1942

SUBJECT: Mine Loan
Paul J. Harrison, et al
Docket No B-ND-3860

I am informed today that the Treasurer's office believes this money is now being disbursed although no formal statement has come from the Federal Reserve Bank.

Please inform me if Harrison is now OK so that I may close the case.


Bill Broadgate



Washington, D.C.
July 21, 1942

Paul J. Harrison, et al
Docket No B-ND-3860

I have pointed out to the legal division that a tungsten property should not be held up due to minor legal technicalities.

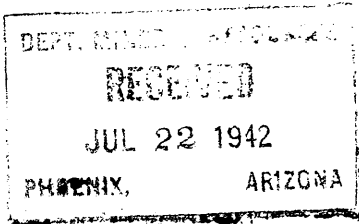
The RFC wired the Federal Reserve Bank in San Francisco, instructing them to release the money.

Unfortunately, the Bank had already started to return some of the papers to Harrison and they are in the mails.

The RFC has wired Harrison to promptly return the papers to the bank and to the bank to start disbursing the moment they arrive, or sooner. Any adjustments are to be made later.

It may be that disbursement will start tomorrow, and at the latest I hope, when the papers return to the bank.

Bill Broadgate



Washington, D.C.
July 20, 1942

SUBJECT: Mine Loan,
Paul J. Harrison,
Ernest R. Harrison
Bern Swensk
Docket No. B-ND-3860

I believe I shall be able to report tomorrow that this loan
is released for disbursement.

Bill
Bill Broadgate

Paul Harrison
Mme

Payson, Arizona,
July 20, 1942.

Air Mail - Special Delivery

Hon. Carl Hayden,
United States Senate,
Washington, D. C.

Re: - Paul J. Harrison,
H. Brady Harrison,
Ernest W. Harrison and
Bern Swensk.
Docket No. R-ED - 3660.

My dear Senator:

Seven months ago the parties referred to in the above caption applied for a mine development loan. With the letter of transmittal accompanying the application, which is of record under the above docket number, we pled with the Reconstruction Finance Corporation to waive the red tape in connection with securing this loan because of our declaration of war and our Government's dire need for vital strategic minerals.

Today, seven months hence, we are still pleading for the privilege to do our part in the war effort while our boys at the front are being shot to pieces because of too little, and too late.

We of the El Oro Tungsten Mines are miners and damaged miners. Each of us also can handle a rifle equally as well as a jack-hammer. But we are too old to be admitted into the army or navy, therefore it is obvious that our place towards winning the war is in the production of this vital strategic mineral UO₃ of which we have an abundance within our mining claims.

We could have been on production months ago had we had proper cooperation from the Reconstruction Finance Corporation. As it is these bottlenecks are giving aid and comfort to our enemies and helping them in no small way to defeat us.

Can't something be done about it in Washington to remove this situation for the duration at least? It is pitiful, and a shame that these unnecessary bottlenecks exist, when we are at war fighting for our very existence. It is our prayer that something will be done about it ere it is too late.

On the 18th inst. I forwarded to you by Air Mail, a copy of a letter addressed to Mr. Frank W. Kuehl, counsel for the Reconstruction Finance Corporation. If you can assist us in any way in connection with the matter your efforts will be greatly appreciated I am sure you. We do not like the idea of taking up any of your valuable time when you have many other and more important matters before you, however, we are desperate, discouraged, and at the end of our patience with the Reconstruction Finance Corporation. Senator, we need your help, not only for our project but there are many other mine projects in the same plight as ours.

Very sincerely yours,

Paul J. Harrison

Paul J. Harrison,
Payson, Arizona.

PJH:FA.