



CONTACT INFORMATION

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02/28/90

ARIZONA DEPARTMENT OF MINES AND MINERAL RESOURCES FILE DATA

PRIMARY NAME: CONLIG TUNGSTEN

ALTERNATE NAMES:

HOUSTON
EAST & WEST EVENING STAR

COCHISE COUNTY MILS NUMBER: 536

LOCATION: TOWNSHIP 18 S RANGE 19 E SECTION 26 QUARTER SE
LATITUDE: N 31DEG 50MIN 09SEC LONGITUDE: W 110DEG 22MIN 09SEC
TOPO MAP NAME: MCGREW SPRING - 7.5 MIN

CURRENT STATUS: PAST PRODUCER

COMMODITY:

TUNGSTEN

BIBLIOGRAPHY:

KEITH, S.B., 1973, AZBM BULL. 187, P. 90
USGS BULL. 380, P. 164-165
USGS BULL 148, P. 45-46
USBM RI 5650, P. 54-55
ADMMR CONLIG TUNGSTEN FILE
ALSO IN SEC 25

CONLIG TUNGSTEN MINES

COCHISE COUNTY

RI 5650 p. 54 (1960) - Chadwick Claims

ABM Bull 148 p. 45

See: ~~Eagle-Picher "C" Confidential files for report.~~ Now in this file.

ABM Bull. 380, p. 164-165

ABM Bull. 148, p. 45-46

MILS Sheet sequence number 0040030254

817 W. Madison St

Dec 22, 1952

Mr. Robert A. Becker,
Dell Webb Co., Phoenix, Ariz.

Dear Mr. Becker:-

Per your request I last week visited the Chadwick tungsten property south of Benson, and took 8 samples. I am leaving for the Coast on Wednesday (will return Sunday) but will not have the assays until my return.

However these assays will in no way indicate an average , nor form the basis for any opinion. They were taken mostly to help train my eye to make a better visual appraisal of a mineralized condition in the field.

Pending further examination I thought it might be of value to you to have a few preliminary thoughts and concepts. I will jot down some herewith although they may be at random and uncorrelated.

The property has been known in mining circles for some time and there have been several unsuccessful attempts to work it on a small scale. A report made by Jonathan Gordan some years ago is generally considered as highly fantastic and has probably been checked and found wanting on several occasions. This may have caused some condemnation of the property by some investigators but need not preclude its economic possibilities when approached from other practical angles.

For once, theoretical geology has an important bearing on the economics. F. L. Hess , in USGS Bulletin 725 (1922) expressed the opinion that the tungsten was intrinsic in the granite magma and crystallized out in disseminated manner when the magma consolidated as a granite or pegmatite. Dr. Eldred Wilson of the Arizona Bureau of mined expresses the opinion that the tungsten came in later along faults and fractures and permeated the walls of the fracture for a few feet to replace certain pre-existing minerals with tungsten minerals, under the influence of heat, pressure, and chemical reactions. This is the metasomatic theory. Under such theory the economic values would only extend a few feet into the walls along such fractures. Unfortunately most of the work and pits has been confined to such zones.

The importance of the point is that under the Hess

theory one would expect a fairly uniform content of tungsten throughout the mass, whereas under the Wilson theory the values would be confined to zones along the fractures with practically barren ground between.

Personally I am inclined to believe that a combination of the two has taken place. That is, that a certain amount of tungsten was intrinsic in the rock mass, and that there has also been subsequent enrichment along the faults and fractures.

It is unfortunate that most all the openings on the property are correlated to the fractures and there is little done to prove or disprove the presence of appreciable tungsten in areas remote from the fractures.

That fact, together with the fact that the weathered surface exposure of the terrain has been washed quite free of tungsten, makes it impossible to obtain any accurate average of a sizeable area by hand sampling. We have plenty of places to sample selected spots but practically nowhere do we have places to sample the intervening low grade areas. And there is no criterion by which one can be evaluated as against the other, to obtain an accurate overall average.

Shortly after my return here on Dec 28th I will again visit the property, and in the light of the preliminary samples, take a dozen or so more samples, and try to determine what kind of a future program is justified. I mean what kind of a further program of determining an average for a block, for under no consideration are you justified in planning for heavy production equipment of other capital expense until such determination is positively made. This will be discussed in more detail a bit later.

It is doubtful if any of the past investigators have considered the project in the light of how low grade a sizeable area might be to have economic importance. Assuming that an area 500 x 250 x 100 feet deep could be proven to average .20 WO₃, such an area would contain 1,000,000 tons and justify an operation of 1,000 tons per day. The .20% tungsten, with 80% extraction would yield about \$10.00 per ton. Total costs on such an operation should not exceed \$4.00 per ton, so the project on such basis should be highly justified and profitable.

Considering the rather precarious long range view of the tungsten price situation it would be advisable to amortize an investment in a rather short period, but such a program would do it. Operating costs per ton on a 1000 ton basis would be almost as low as on any higher production basis, but on smaller production per ton costs would be considerably higher.

The problem thus becomes on to prove beyond the shadow of a doubt, the existence of 1,000,000 tons of .20% or better ore in one place or pit, without having to resort to selective mining or the elimination of low grade areas within a general area.

The most feasible way to do such proving would be to first select the most feasible area of 125,000 sq ft or more. Then put down about five lines of four each of diamond drill holes. Such holes should be put down at an angle (say 45 degrees) so as to cross cut the faults, fractures and quartz veins. Assays should be taken of each five feet of core, occasional samples checked by another assayer, and occasional sludge samples also assayed. The entire program, including the drilling, assaying and overhead, might cost as much as \$20,000, but once done there would be no guesswork.

An alternate shortcut program which might tell the story (although not nearly so positively) but costing much less in money and time, would be to put down one rather long flat drill hole in the approximate center of a selected area. This hole should be at right angles to the strike of the faults, and at a vertical angle to attain 200 feet of depth in 500 feet of length. Then if the cores remote from the fractures show an average of .10% tungsten or over, it could be assumed that the general average would be boosted by the higher grade along the fractures, to constitute a general economic average.

Perhaps this would be the best preliminary procedure, especially if you are short of time, but I would not the full and large investment that will be required for the 1000 ton per day entity, without the more positive drill program outlined above.

The proposed shipment to the Hillside Mill will give very valuable information. May I warn however that special care should be taken to obtain all accurate data possible.

There is no doubt of the general extent of the mineralized area or the fact that it contains tungsten. Geological conditions are generally favorable. The problem resolves itself down to determining the tungsten content of a sizeable but definite area with hairline accuracy. Hit or miss, or sporadic showings do not do this and can be terribly misleading. It would be impossible to mine hit or miss showing without costs for both development and extractive mining being several times greater than those assumed above. Metallurgical characteristics must also be definitely determined. No very troublesome factors are expected there but an extraction of over 80% would be unusual. Possibly a process of making a low grade rougher concentrate (about 10%) and the chemical treatment of such concentrate would bring about economies and result in higher overall extraction.

Yours Very Truly,

817 W. Madison St

Jan 22nd, 1953

Mr. Robert A. Becker,
Dell Webb Co., Phoenix, Ariz.

Dear Mr. Becker:-

Following my preliminary report of December 22nd, 1952, on the Chadwick Tungsten near Benson I have received the assays on the samples taken at that time, and have made a second trip during which I took more samples and had further assays made.

Attached herewith are the assay certificates with notes showing where the samples were taken.

The assayers declare that the ore when low grade is exceedingly difficult to assay because the black tungsten minerals require exceptionally fine grinding before they are soluble in acid, and there are also some interfering elements. I believe however, that after these difficulties were appreciated the check runs were reliable.

In the light of these samples I am thoroughly convinced that the tungsten mineralization is confined to the vicinity of the fractures and that the masses remote from the fractures are practically barren.

This practically precludes the thought of a large scale pit operation. Although there are myriads of the mineralized fissures their combined area is small compared to the area required for a pit operation, and their value is not high enough to carry large tonnages of practically barren rock.

Of course the proposed shipment to Hillside will definitely answer any such question, but considering that the cost of shipping and milling 500 tons will be \$11,000.00, and it is unlikely that more than \$1000 - \$3000 will be recovered, it would seem advisable to take samples as the excavation proceeds, with view to cutting down this tonnage and expense if the samples show generally negative results.

Except for the area "over the hill" which I have not seen there is probably no more favorable place to obtain a test shipment than the vicinity of where you are working, that is, around the old 80' shaft. And as stated before it would be very advisable to separate the shipment into sub lots as far as possible.

Account for services to date is attached, and please advise when and if I can be of further

317 W Madison St.,

Jan 22, 1953

Mr. Robert A. Becker, et al,

to

Chas. H. Dunning, Dr.

Services to date, including all travel and
personal expenses, but not assays \$500.00

(Above includes 2 trips to mine, preliminary
report, work with samples and assayers, final
brief advisory letter - total approx 6½ days)

Assay bills 90.00
 Arizona Testing Laboratory 60.00
 Arizona Assay Office 30.00

NAME OF MINE: CONLIG ✓		COUNTY: COCHISE S
OPERATOR AND ADDRESS:		DISTRICT: METALS: W
MINE STATUS		
DATE:		DATE:
5/1/44	Dewey Chadwick, Tombstone	5/1/44 Idle
		2/45 <i>Contract Settlement Claim</i>
8/5/43	3 men working RFC granted	

CONLIG TUNGSTEN

W

Cochise 2 - 4 T 18 S, R 19 E

J. D. Chadwick, Box 692, Tombstone '45

CHADWICK CLAIMS

W

Cochise 2 - 4 R 19 E

D. Chadwick, Box 692, Tombstone '42

Must be same as Conlig Tungsten '45

REFERENCES

USGS Bull. 380, p. 164-165

ABM Bull. 148, p. 45-46

USBM RI 5650, p. 55-54

MILS Sheet sequence number 0040030254

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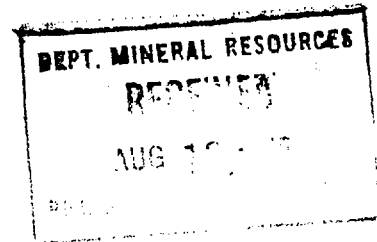
United States Senate

COMMITTEE ON APPROPRIATIONS

August 8, 1945

EVERARD H. SMITH, CLERK
JOHN W. R. SMITH, ASST. CLERK

Mr. L. M. Forcey
Morning Star Mining Company
P. O. Box 23
Oracle, Arizona



My dear Mr. Forcey:

Referring to my last letter to you of May 31, I am enclosing herewith a supplemental communication addressed to me on August 6 by Robert S. Stevens, Chairman of the Appeal Board, Office of Contract Settlement, together with a copy of a notice of the time and place of adjourned hearing in connection with the appeals filed by you and Mr. J. Dewey Chadwick at the Conlig Tungsten Mine.

Whenever I learn anything further, I shall let you know.

With every good wish, I am,

Yours very sincerely,

Carl Hayden

CC: Charles H. Dunning, Director
Department of Mineral Resources
Phoenix, Arizona

William C. Broadgate
Washington, D. C.

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EVERARD H. SMITH, CLERK
JOHN W. R. SMITH, ASST. CLERK

United States Senate

COMMITTEE ON APPROPRIATIONS

August 8, 1945

Mr. J. Dewey Chadwick
P. O. Box 692
Tombstone, Arizona

My dear Mr. Chadwick:

With reference to my last letter to you of June 27, I am enclosing herewith a supplemental communication addressed to me on August 6 by Robert S. Stevens, Chairman of the Appeal Board, Office of Contract Settlement, together with a copy of a notice of the time and place of adjourned hearing in connection with the appeals filed by you and Mr. L. M. Forcey at the Morning Star Mining Company.

Whenever I learn anything further, I shall let you know.

With every good wish, I am,

Yours very sincerely,

Carl Hayden

CC: Charles H. Dunning, Director
Department of Mineral Resources
Phoenix, Arizona

William C. Broadgate
Washington, D. C.

COPY

APPEAL BOARD
OFFICE OF CONTRACT SETTLEMENT
FEDERAL RESERVE BUILDING
WASHINGTON 25, D. C.

August 6, 1945

Dear Senator Hayden:

In accordance with your request to Mr. Hinckley and his assurances to you, there is enclosed herewith a copy of the Notice of the Adjourned Hearing in the Chadwick and Morning Star appeals, under the Metals Reserve tungsten program. You will note that the adjourned hearing is set for September 25, 1945 in Washington.

Very truly yours,

s/ Robert S. Stevens
Chairman, Appeal Board

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

Enclosure.

COPY

August 3, 1945

Re Appeals of J. Dewey Chadwick and
Morning Star Mining Company

PROCEEDINGS NOS. 4 and 5

NOTICE OF TIME AND PLACE OF ADJOURNED HEARING

You are hereby notified that the above proceedings have been set for adjourned hearing, as indicated below, before a panel of three members of the Appeal Board of the Office of Contract Settlement.

The hearing will be held on Tuesday, the 25th day of September, 1945 at 10:00 A.M. in the Conference Room, Room 1202, Federal Reserve Building, Washington, D.C., at which time and place you will be given an opportunity to present evidence and argument not peculiar to these cases but relevant to them and to the issues arising out of the Metals Reserve Company tungsten program generally.

No adjournment will be granted except for good cause shown. In the event of your failure to appear at the time and place above set forth, the Board will consider the hearing closed, in accordance with the understanding of the Board and the stipulations of the parties as agreed upon at the hearings in Phoenix, Arizona, May 25 and 26, 1945.

Dated this 3rd day of August, 1945.

By order of the Appeal Board,
Office of Contract Settlement

s/ FLORENCE M. NICHOLS
Clerk, Appeal Board

To: Messrs. Henderson Stockton and
Fred J. Elliott
507-12 Security Building
Phoenix, Arizona

CC - Senator Carl Hayden

CONFIDENTIAL

June 15, 1945

9110
DEPT. GENERAL RECORDS
RECEIVED
JUN 18 1945
PHOENIX, ARIZONA

TO: C.H.DUNNING
FROM: W.C.BROADGATE
ABOUT: CHADWICK TERMINATION CASE.

I have read the transcript in the Chadwick case and it is my personal opinion that the case is so weak that it would be foolish to spend the money at additional hearings and just feed the lawyers.

The case would be weak under any possible interpretation or amendment of the Contract Termination Act.

It is unfortunate that we didn't have some real strong cases for appeal.

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United States Senate

COMMITTEE ON APPROPRIATIONS

May 31, 1945

EVERARD H. SMITH, CLERK
JOHN W. R. SMITH, ASST. CLERK

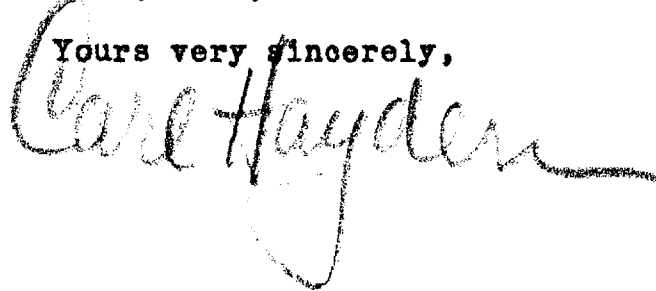
Mr. J. Dewey Chadwick
Post Office Box 182
Tombstone, Arizona

My dear Mr. Chadwick:

Referring to my last letter of April 26th,
I am now sending you herewith copy of a supplemental
report addressed to me under date of May 30th by
Mr. Roger L. Putnam, Acting Director, Office of Contract
Settlement, relative to appellate consideration of your
claim. If you want transcripts of the record for your
own information at a charge of ten cents per page please
let me know and I shall secure them for you. Whenever
further word is received from the Office of Contract
Settlement, I shall let you know.

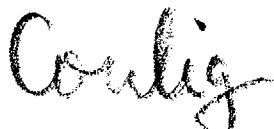
With best wishes, I am,

Yours very sincerely,



cc. to:
Charles H. Dunning
Director, Department of Mineral Resources
Phoenix, Arizona

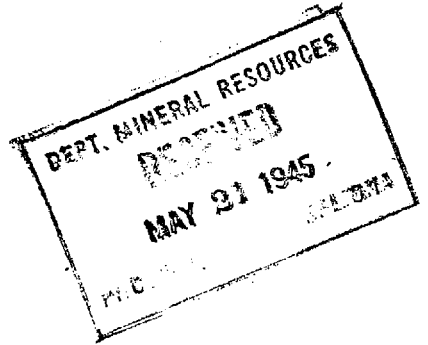
William C. Broadgate
Washington, D. C.



Chadwick

CITY OF TOMBSTONE
TOMBSTONE, ARIZONA

May 18, 1945



Mr. Carl F. Hastings
Projects Engineer
304 Home Builders Building
Phoenix, Arizona.

Dear Mr. Hastings:

The arrangements you have made with Mr. Fred J. Elliott, as mentioned in your letter of May 17, are entirely satisfactory with me.

I will try to arrange to be in Phoenix, Tuesday evening and will call at 304 Home Builders Bldg. Wednesday May 23rd.

Very best regards,
J. Dewey Chadwick

COPY

Re Appeal of J. Dewey Chadwick

PROCEEDING NO. 4

You are hereby notified that the above proceeding has been set for hearing, as indicated below, before a panel of three members of the Appeal Board of the Office of Contract Settlement.

The hearing will be held on Friday, the 25th day of May, 1945, at 9:00 A.M. in 212 Grand Jury Room, United States Courthouse, Phoenix, Arizona, at which time and place you will be given an opportunity to be heard and introduce evidence.

No adjournment will be granted except for good cause shown. Your unexcused absence from the hearing at the time and place above set forth may not be the occasion for delay, but the hearing may proceed and the case may be regarded as submitted by you. In all respects you are expected to be familiar with the Rules of Practice and Procedure of the Appeal Board, as contained in Regulation No. 15 of the Office of Contract Settlement.

Dated this 10th day of May, 1945.

By order of the Appeal Board,
Office of Contract Settlement

(Signed) Florence M. Nichols
Clerk, Appeal Board

To: Mr. J. Dewey Chadwick
P.O. Box 692
Tombstone, Arizona

COPY

TELEGRAM

MAY 10, 1945

MR. J. DEWEY CHADWICK
P.O. BOX 692
TOMBSTONE, ARIZONA

HEARING ON YOUR APPEAL PROCEEDING NUMBER FOUR SET FOR
9:00 A.M. MAY 25 212 GRAND JURY ROOM, UNITED STATES
COURTHOUSE, PHOENIX, ARIZONA Stop FORMAL NOTICE FOLLOWS

ROBERT S. STEVENS
CHAIRMAN, APPEAL BOARD

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JOSEPH H. BALL, MINN.

United States Senate

COMMITTEE ON APPROPRIATIONS

April 26, 1945

EVERARD H. SMITH, CLERK
JOHN W. R. SMITH, ASST. CLERK

Mr. J. Dewey Chadwick
P. O. Box 182
Tombstone, Arizona

My dear Mr. Chadwick:

Referring to my letter of April 20 I am attaching hereto a response just received from Robert H. Hinckley, Director of the Office of Contract Settlement, in which he acknowledges receipt of your appeal from the adverse decision of the Metals Reserve Company.

I shall keep in touch with him and let you know as soon as there are any further developments.

With every good wish, I am,

Yours very sincerely,

Carl Hayden

cc: C. H. Dunning, Director
Department of Mineral Resources
Phoenix, Arizona

COPY
For Your Information

OFFICE OF CONTRACT SETTLEMENT
FEDERAL RESERVE BUILDING
WASHINGTON 25, D. C.

April 24, 1945

Dear Senator Hayden:

In reply to your letter of April 20th regarding Mr. Chadwick's appeal:

Mr. J. Dewey Chadwick's appeal was filed with the Appeal Board on April 16, 1945, and in accordance with the Board's Rules of Practice and Procedure copies of the Notice of Appeal were immediately sent to the Metals Reserve Company, which has 20 days from April 17, 1945 in which to file its response.

You may feel sure that the Appeal Board will give the case careful consideration after issue is joined and the case comes on for hearing.

The following papers are returned to you herewith:

Copy of letter from Metals Reserve Company to Senator Hayden,
2 copies of letter from DeWitt C. Schieck to J. Dewey Chadwick
Original and copy of letter from J. Dewey Chadwick to Senator Hayden
Copy of Notice of Appeal.

With all good wishes,

Sincerely,

(Signed) ROBERT H. HINCKLEY

Robert H. Hinckley

Honorable Carl Hayden
United States Senate
Washington 25, D. C.

Tombstone, Arizona

April 25, 1945

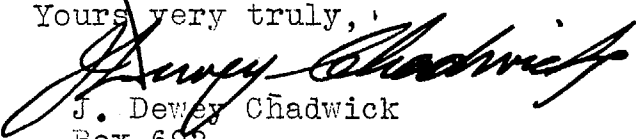
Mr. Earl F. Hastings
304 Home Builders Building
Phoenix, Arizona

Dear Mr. Hastings:

I am enclosing copies of letters I received from Senator Hayden and from the Appeal Board, which pertain to the Appeal forms which you directed me to mail, in your letter of April 11.

On any communication I receive from the Appeal Board, I shall contact you before replying as directed.

Yours very truly,


J. Dewey Chadwick
Box 692
Tombstone, Arizona

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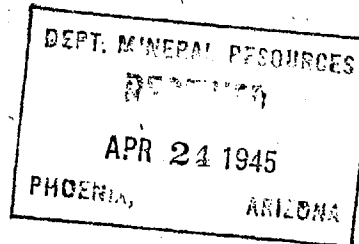
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United States Senate

COMMITTEE ON APPROPRIATIONS

April 20, 1945

EVERARD H. SMITH, CLERK
JOHN W. R. SMITH, ASST. CLERK



Mr. C. H. Dunning, Director
Department of Mineral Resources
304 Home Builders' Building
Phoenix, Arizona

My dear Mr. Dunning:

Referring to my letter of March 24 to Mr. Earl F. Hastings, I am attaching hereto a copy of a communication I have today addressed to Mr. J. Dewey Chadwick of Tucson, Arizona, further with regard to the contract termination claim of the Conlig Tungsten Mine, Cochise County, Arizona.

With every good wish, I am,

Yours very sincerely,

Carl Hayden

CARTER GLASS, VA., CHAIRMAN

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C. ...ZN, ARIZ.
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JOHN H. OVERTON, LA.
JOHN H. BANKHEAD, ALA.
JOSEPH C. O'MAHONEY, WYO.
HARRY S. TRUMAN, MO.
THEODORE FRANCIS GREEN, R. I.
FRANCIS MALONEY, CONN.
DENNIS CHAVEZ, N. MEX.
JAMES M. MEAD, N. Y.
BURNET R. MAYBANK, S. C.

GERALD P. NYE, N. DAK.
STYLES BRIDGES, N. H.
RUFUS C. HOLMAN, OREG.
WALLACE H. WHITE, JR., MAINE
CHAM GURNEY, S. DAK.
C. WAYLAND BROOKS, ILL.
CLYDE M. REED, KANS.
HAROLD H. BURTON, OHIO
JOSEPH H. BALL, MINN.

United States Senate

COMMITTEE ON APPROPRIATIONS

April 20, 1945

EVERARD H. SMITH, CLERK
JOHN W. R. SMITH, ASST. CLERK

Mr. J. Dewey Chadwick
P. O. Box 182
Tombstone, Arizona

My dear Mr. Chadwick:

I want to thank you for your letter of April 13 and beg to say that I have today directed a communication on behalf of the appeal of the Conlig Tungsten Mine to Mr. Robert H. Hinckley, Director of the Office of Contract Settlement, Office of War Mobilization and Reconversion. As soon as I have a report from Mr. Hinckley, I shall get in touch with you again.

With every good wish, I am,

Yours very sincerely,

Carl Hayden

Copy

OFFICE OF CONTRACT SETTLEMENT
FEDERAL RESERVE BUILDING
WASHINGTON 25, D. C.

April 16, 1945

Mr. J. Dewey Chadwick
P. O. Box 692
Tombstone, Arizona

PROCEEDING NO. 4
Re Claim of J. Dewey Chadwick Against M.R.C.

Dear Sirs:

Receipt is acknowledged of your Notice of Appeal and supporting documents, relating to the above termination claim, which was filed this day with the Appeal Board.

You are hereby notified that this appeal has been assigned PROCEEDING NO. -----4

This number shall be placed on all subsequent correspondence and on all papers hereafter filed in this Proceeding.

signed by, Florence M. Nichols

Clerk, Appeal Board
Office of Contract Settlement

April 11, 1945

Mr. J. Dewey Chadwick
P. O. Box 692
Tombstone, Arizona

Dear Mr. Chadwick:

Attached are seven bound copies of the appeal on your claim together with two unbound copies.

Please sign before notary the seven bound copies, mailing the original and five copies to the Appeal Board as addressed, and the seventh copy to the M.R.C., 811 Vermont Avenue, Washington, D. C.

One of the unbound copies is for your file and the second should be attached to a personal note to Senator Hayden thanking him for his previous interest and enlisting his aid in this appeal. A note from you personally will mean a great deal I'm sure.

Please let me know what transpires as a result of this appeal. The text and legality has been studied by a competent mining attorney and I have hopes that we may get some action on it.

Very truly yours,

Earl F. Hastings

EFH:LP
Enc. 9

March 31, 1945

Mr. J. Dewey Chadwick
Box 692
Tombstone, Arizona

Dear Mr. Chadwick:

This will acknowledge receipt of your letter and enclosures for which I thank you.

It would have been much better had I had this information before as the claim states, in paragraph 7, that all operation ceased prior to February 1944. I can modify this in the final appeal draft.

A preliminary draft of your appeal has been prepared and sent to the Attorney General's office for comment and criticism. Since denial of your claim was based on legal interpretation this help will be of great value. J. Hubert Smith, Assistant Attorney General, was an attorney in Kingman for years and is thoroughly conversant with mining problems. I feel sure that his advice will be helpful.

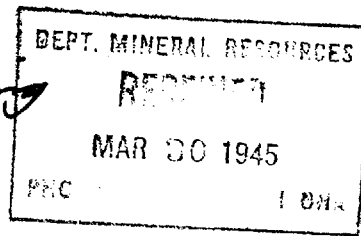
Yours very truly,

Earl F. Hastings
Projects Engineer

EFH:LP

T. M. Stone Ariz.
March 28 1945

Mr. Earl F. Hastings
Projects Engineer
304 Home Builders Building
Phoenix Arizona.



Dear Sir:

I have received Metals Reserve Company's letter of rejection of my claim, but have made no reply to it as I was awaiting word from you, which arrived today.

In their letter of rejection they lean heavily toward the idea that my operations were suspended in December 1943, as a matter of fact, development work was suspended to a certain extent and a switch over to stripping and breaking ore was made; as the enclosed letters will bear out.

These operations continued until I received notice of termination of contract from Metals Reserve Co. When I received the notice of contract

termination from Metals Reserve Co. I laid my men off as I was getting short of funds which I had obtained from an R.F.C. preliminary development loan, and did not care to risk any more of my own money betting on an unstable market, such as Metals Reserve Co. offered.

after laying my men off I continued alone in order to shape things up for an examination preparatory to making application to R.F.C. for an additional loan for mining purposes; which I did make on March 29, 1944 and which was rejected by R.F.C.

operations were finally discontinued in April, 1944 upon receipt of the rejection of my application for an additional loan from R.F.C., as the controlled price of tungsten was too unprofitable to risk private capital on.

I am also enclosing a map
by Mr. C. A. Paver, made at the
time he examined my property
when I was applying for additional
funds for mining.

On this map he has written
in the gaps samples of piles of
ore that he sampled at the
time.

Trusting this will be of
assistance to you, I am,

respectfully yours

Dewey Chadwick

March 27, 1945

Mr. J. Dewey Chadwick
P. O. Box 692
Tombstone, Arizona

Dear Sir:

I have a copy of the Metals Reserve Company rejection of your claim. Please do not make any reply to it until a brief is prepared for presentation to the appeal board. The rejection is based upon technicalities concerning which the reviewing attorneys have no precedent to guide them.

We may expect many of the claims to be summarily rejected, but are certainly going to argue it out with them and get what the law was meant to give.

Will send you the necessary information and prepared reply for your signature in a few days.

Yours very truly,

Earl F. Hastings
Projects Engineer

KFH:LP

CC: George A. Ballam

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FRANCIS MALONEY, CONN.
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BURNET R. MAYBANK, S. C.

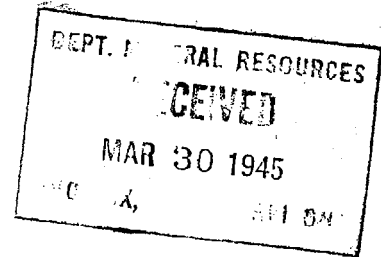
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United States Senate

COMMITTEE ON APPROPRIATIONS

March 24, 1945

EVERARD H. SMITH, CLERK
JOHN W. R. SMITH, ASST. CLERK



Mr. Earl F. Hastings
c/o State Department of
Mineral Resources
304 Home Builders' Building
Phoenix, Arizona

My dear Mr. Hastings:

Referring to my letter to you of March 17 regarding the Contract Termination Claim of the Conlig Tungsten Mine in Cochise County, Arizona, I am sorry to have to send to you the attached adverse report from Honorable Charles B. Henderson, President of the Metals Reserve Company, together with a copy of a communication addressed to Mr. J. Dewey Chadwick, under date of March 22 by DeWitt C. Schieck, Vice President, Metals Reserve Company.

Our mutual friend, William C. Broadgate, Special Consultant on Mining and Minerals to the Senate Small Business Committee, is going to discuss this particular case further with the proper officials of the Metals Reserve Company here in an effort to see whether some more favorable action can be had. As you know, Mr. Broadgate will keep you advised.

With kindest personal regards, I am,

Yours very sincerely,

Carl Hayden



METALS RESERVE COMPANY

WASHINGTON 25, D. C.

Honorable Carl Hayden,
Senate Office Building,
Washington, D. C.

My dear Senator Hayden:

Reference is made to your letter of March 17, 1945, enclosing copy of the claim submitted to Metals Reserve Company by Mr. J. Dewey Chadwick, Tombstone, Arizona, covering the Conlig Mine, under the Contract Settlement Act of 1944.

There is enclosed copy of this Company's letter, dated March 22, 1945, to Mr. Chadwick, informing him that his claim has been declined by Metals Reserve Company, and discussing in detail the reasons underlying such action. You will note particularly the statement therein that Metals Reserve Company is of the opinion that it lacks authority under the Contract Settlement Act of 1944 to approve claims such as that in question under the circumstances which obtain in the case.

As requested, we return herewith the enclosure forwarded with your letter.

Sincerely yours,

(Signed) Charles E. Henderson

Charles E. Henderson,
President.

Enclosures

March 22, 1945

Mr. J. Dewey Chadwick
Tombstone, Arizona

Dear Mr. Chadwick:

Yesterday I received a letter from Senator Hayden in which he stated he was taking the matter of your claim up with Charles B. Henderson, President of the Metals Reserve Company. The Senator's action should tend to expedite your claim to the utmost.

In the event you receive any correspondence from the M.R.C. relative to your claim, please notify us before you reply. In this manner there can be no contradiction between us in answers to inquiries.

Very truly yours,

Earl F. Hastings
Projects Engineer

EFH:LP

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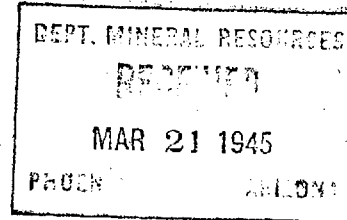
United States Senate

COMMITTEE ON APPROPRIATIONS

March 17, 1945

EVERARD H. SMITH, CLERK
JOHN W. R. SMITH, ASST. CLERK

Mr. Earl F. Hastings
c/o State Department of
Mineral Resources
304 Home Builders Bldg.
Phoenix, Arizona



My dear Mr. Hastings:

I am just in receipt of a copy of the claim submitted to the Metals Reserve Company under date of February 24, 1945 on behalf of the Conlig Tungsten Mine in Cochise County, requesting disposition under the terms of the Contract Settlement Act of 1944.

I am taking this matter up with Honorable Charles B. Henderson, President of the Metals Reserve Company here and shall not fail to advise you what I learn from him.

With every good wish, I am,

Yours very sincerely,

Carl Hayden

United States Senate

MEMORANDUM

March 15

Dear Chuck,

I have the Chadwick Termination application. As I remarked, it is not necessary to send me carbons of the whole thing. Just the covering letter is enough of a tickler. I get the application down from the Senator's office anyway and if I do not and have the letter, I can go chase them us to see what happened.

DEPT. MINE expected to have a report on this termination situation soon.

MAR 17 1945

Bill Broadgate

P. G. N. 2

MAR 17 1945

February 24, 1945

Mr. J. Dewey Chadwick
P. O. Box 692
Tombstone, Arizona

Dear Mr. Chadwick:

Attached are:

1. Original and 4 copies of your claim under the Contracts Settlement Act of 1944.
2. Jacobs' Assay Office certificate No. 41774.
3. Original letter from E. Fernstrom of May 5, 1943.

Please sign, before notary, the original and 3 copies of the claim and mail to W. C. Broadgate, Apt. 204, El Caser, 705 - 4th, N.W., Washington 1, D. C. The extra copy is for your files.

We would appreciate receiving a copy of any further correspondence with the Metals Reserve Company referring to the claim in order that we may keep abreast with developments.

Yours very truly,

Earl F. Hastings
Projects Engineer

EFH:LP
Enc.

CC: George A. Ballam

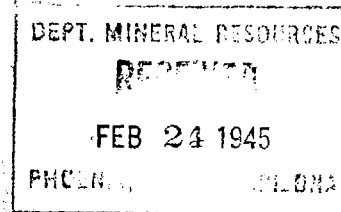
JAMES E. MURRAY, MONT., CHAIRMAN
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C. DOUGLASS BUCK, DEL.

DEWEY ANDERSON, EXECUTIVE SECRETARY

United States Senate

Special Committee to Study Problems of
American Small Business

February 19, 1945



Mr. Harold Sheehan
Assistant General Counsel
Metals Reserve Company
Room 933 - 811 Vermont Ave.
Washington, D. C.

Dear Mr. Sheehan:

As per our conversation the other day relative to the Chadwick claim, I noticed the comment via Senator Henderson's letter of February 13 to Senator Murray that this claim has not yet turned up. For some reason or other we received a preliminary carbon copy of the claim. Chances are the reason no one has been able to find it is that it is addressed both to Metals Reserve Company and the "Contract Termination Administrator" (sic).

I am enclosing herewith a copy of this claim for your information as you might wish to write Mr. Chadwick.

Sincerely yours,

Bill Broadgate
W. C. Broadgate
Technical Consultant

Enc.

cc: C. H. Dunning ✓

Box 692
Tombstone, Ariz.
Nov. 30, 1944

Metals Reserve Company,
Contract Termination Administrator,
Washington, D. C.

Gentlemen:

I am entering my claim for \$13,925 which constitutes a loss suffered by me by reason of termination of Metals Reserve Company tungsten contract. I submit the following facts in support of my claim.

I am owner of the Conlig tungsten mine and mill, situated 10 miles south of Benson, Arizona, in the Whetstone mining district. Following outbreak of war, and consequent critical position of tungsten, I erected a concentrator on my property to treat Conlig ore. The equipment purchased and installed consisted of the following: (Exhibit A)

Weaver impact crusher, 50 tons capacity
Wheeler self-classifying ball mill
Standard Diester table
Ore bin, 30 tons
Water tank, 5000 gal.
Power - Buick and Chevrolet engines

In May 1943, following satisfactory experimental work, I submitted a token shipment of concentrates to Fernstrom and Co., of Tucson. This product assayed 48.6 percent WO_3 and was cleaned by removal of iron and other magnetic impurities to 63.2 WO_3 . (Exhibit B) My contract with MRC as a qualified producer was confirmed June 7, 1943 (Exhibit C). This experimental work had demonstrated the necessity of cleaning my rough concentrate by magnetic separator in order to produce a marketable grade, and I made arrangements with Fernstrom to do this work.


About this time ^{April - 43} I applied for and was granted a \$5,000 RFC loan for developing additional ore on the Conlig No. 1 claim. All of this money was used for this purpose, and no part was used on the mill. Meanwhile, Fernstrom was having difficulties with MRC relative to handling of purchases of small lots of ore. He was unable to resume operations for some time, and during this period I was engaged in developing ore as stated. I did not resume mill operation until December¹⁹⁴³ at which time I learned that the purchase of domestic tungsten at \$30 per unit would soon be discontinued. When the settlement options were announced in February¹⁹⁴⁴ I was unable to participate on account of this suspension of operation, whereupon I gave up the operation entirely.

On account of the abrupt termination of tungsten contracts, after so short a duration, in any event insufficient to recover my investment, I believe I have suffered a financial loss through no fault of mine, and am justified in presenting a claim as follows:

Investment in mill	\$9750
Labor- experimental work	875
Salary - self 16 mo.	4800 32
Total	<u>\$15425</u>
Less salvage value plant	<u>1500</u>
net loss	\$13925

12325

Yours very truly



J. Dewey Chadwick

Tombstone, Arizona
March 29, 1944

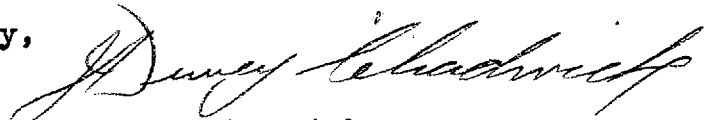
Mr. W. B. Gohring, Supervising Engineer
Reconstruction Finance Corporation
325 Heard Building
Phoenix, Arizona

Dear Mr. Gohring:

I am enclosing herewith my application in duplicate for an additional loan from RFC.

Mr. Rasor was out on the property with me yesterday.

Yours very truly,



J. Dewey Chadwick
Box 692
Tombstone

RECONSTRUCTION FINANCE CORPORATION
WASHINGTON

325 Heard Bldg.
Phoenix, Arizona
January 3, 1944

Mr. J. Dewey Chadwick
Box 692
Tombstone, Arizona

Re: J. Dewey Chadwick
Docket No. ND-8198

Dear Mr. Chadwick:

Enclosed please find voucher check covering your
Withdrawal Request No. 3, which I have countersigned.

We return your bills.

Yours very truly,


W. B. GOHRING
Supervising Engineer

WBG:MEW
Enc.
Voucher Check



Tombstone, Arizona
Dec. 31, 1943

Mr. W. B. Gohring, Supervising Engineer
Reconstruction Finance Corporation
325 Heard Building
Phoenix, Arizona

Re: Docket No. ND-8198

Dear Mr. Gohring:


I am enclosing herewith Borrowers
Withdrawal Request No.3, with Voucher Check No. 3,
in the amount of \$1,000.00, for your approval and
signature.

Also enclosed is a list of expen-
ditures for Dec. 1943, with receipts for purchases.

Since Mr. Rasor's recent visit to
the property, I have been confining my activities
to stripping and breaking the ore already exposed,
in an effort to pay off as much of this loan as
possible.

Trusting this meets with your
approval, I am,

Yours very truly,



J. Dewey Chadwick
Box 692
Tombstone, Arizona

December 19, 1942

①

Mr. Ira B. Joraleman
315 Market Street
San Francisco, California

Dear Mr. Joraleman:

Enclosed is a report and memorandum by our field engineer on the Conlig Tungsten property in the Whetstone district.

You will note application is being made for a Development loan. I thought this report might be of some interest to you.

Very truly yours

Earl F. Hastings
Assistant Director and
Projects Engineer

EFH:BA

Enc. 1

Dec. 16, 1942

MEMORANDUM

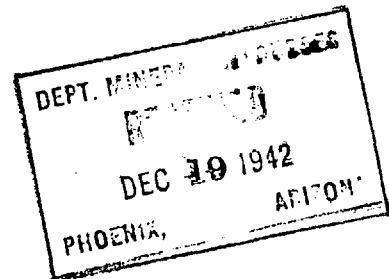
Conlig Tungsten

To: Director, Dept. Mineral Resources
From: George A. Ballam

Following examination of the Conlig, I assisted Dewey Chadwick in preparing his application for a \$10,000 development loan. In attaching a report by Jonathan Gordon, I was rather skeptical of the advisability of so doing. He claimed 3,000,000 tons of commercial ore, that is, mill grade with the present equipment. I believe there are thousands of tons which can be readily developed and milled at once. The huebnerite seems to penetrate both granite walls from the quartz stringers, and in some cases four or five feet of mill ore is definitely showing. There is more actual tungsten ore showing in these workings, not massive but of milling grade, than any I have yet seen in the district.

I believe this property definitely merits a loan, part of which is to be expended for a well and additional equipment.

GA Ballam



Tombstone, Arizona
June 10, 1940


Mr. Laymon Harris
1741 W. Van Buren
Phoenix, Arizona .

Dear Sir:

Replying to your inquiry of June 7th. in which you requested information regarding my Tungsten property in the Whetstone Mts.

I wish to advise you this property is not for sale, or lease. I have just completed a mill on this property and intend to operate it myself.

Thanking you for your inquiry, I am,
yours very truly.


J. Dewey Chadwick

TOMBSTONE
FAIRBANK
ST. DAVID
BENSON
POMERENE
CASCABEL

PRECINCT
NO. 3
COCHISE CO.

OFFICE OF

JOHN L. LARRIEU

JUSTICE OF THE PEACE

EX-OFFICIO CORONER

TOMBSTONE, ARIZONA

Nov. 28, 1939

Mr. J. S. Coupal, Director
Department of Mineral Resources,
Capitol Building,
Phoenix, Arizona.

Dear Mr. Coupal:

Replying to your letter of November 21,
Mr. Carpenter met me Sunday November 19, and accom-
panied me to my property and made an examination of
it. At this time he took 100 pounds or more of samples
to use for making a mill test, with a small mill that
he borrowed in Tucson for the purpose.

On Sunday November 26, I met Mr. Carpenter in
Tucson by appointment and watched him run the mill test
on these samples which were divided into two lots. The
mill while not coming up to Mr. Carpenters expectations
did however produce a fair lot of low grade concentrates
which I arranged with Mr. Carpenter to have assayed,
the results of which he intends to incorporate in his
report to you.

If it is not inconsistent with the policy of
your department, I will appreciate it if you will forward
a copy of Mr. Carpenters report together with your recom-
mendations to Senator Dan Angius, of Bisbee, Arizona,
as he has already contacted the Industrial Commission
in my behalf, regarding a lump sum settlement.

I wish to thank you for the prompt and courteous
co-operation I have received thus far, in this matter
from your department.

Yours very truly,


J. Dewey Chadwick

CC → Senator Angius

C O P Y

DEPARTMENT OF MINERAL RESOURCES
STATE OF ARIZONA
FIELD ENGINEERS REPORT

Mine CONLIG TUNGSTEN
District Whetstone, Cochise County

Date December 1, 1939

Engineer Miles M. Carpenter

Subject:

Former name: Not known

Location: 11 miles S-SW from Benson.

Owner: J. D. Chadwick

Address: Tombstone, Arizona.

Operator: J. D. Chadwick

Address: Same.

President: No corporation

Men Employed: 2 irregular

Principal Metals: Wolframite (Scheelite minor)

Production Rate: Not established

Mill: None

Power - Amt. & Type: None

Operations - Present: Development work on small scale.

Operations - Planned: Depend on financing. Owner wishes to equip with a small mill and begin production.

Number Claims, Title, etc.: 14 unpatented lode claims on Coronado National Forest. Title not investigated.

Description - Topog. & Geog.: Ground covers a pediment which rises hundreds of feet to the west in a steep hill and spreads to a gently sloping plain to the east.

Mine Workings - Amt. & Condition: Numerous shallow pits and open cuts 2 ft. to 10 ft. in depth, 1 shaft 60 ft., 1 shaft 40 ft. One shaft has water, the other lacks facilities for entry.

Geology & Mineralization: The larger geologic features indicate a granitic batholith which has intruded and elevated the overlying schist and sedimentary rocks. Marked tilting and faulting to the west where the peaks rise 1500 feet or more above the pediment. See special report attached for details applying to this property.

Ore - Positive & Probable, Ore Dumps, Tailings: 100 tons or so of ore at the various openings from which the higher grade material has been sorted out and marketed. No blocked tonnage can be claimed. No tailings

Mine, Mill Equipment & Flow Sheet: No mine or mill equipment.

C O P Y

DEPARTMENT OF MINERAL RESOURCES
STATE OF ARIZONA
FIELD ENGINEERS REPORT

Mine Conlig Tungsten Date December 16, 1942
District Whetstone Engineer George A. Ballam
Subject: Report on Tungsten Production Possibilities

Fourteen claims held by location by J. Dewey Chadwick, Tombstone. Situated in Guindani Canyon on the east side of the Whetstone Mts., 10½ miles south of Benson and 6 miles from San Juan Sta. on the Southern Pacific R.R. Sections 25-26, Twp. 18 S, R 19 E of G&SR Base & Meridian. Access is gained by a good road leading west from the Apache Powder Co. road south of St. David. The last mile or so is not maintained, but is in fair condition.

Ore values are huebnerite in quartz stringers cutting a pegmatite intrusion which came up through the schist lying against it on the west. The quartz veins are linked and connected from 1" to 4' thick, in general striking to the northeast and dipping northwest about 70°.

There are some 2500 feet of workings including shallow shafts, open cuts and tunnels, about 200 in all. The main work has been done in three areas on Conlig claims Nos. 1, 2, and 4 respectively, with the greatest development on No. 1. Here there are a number of cuts with two in particular in commercial ore, up to 2% WO_3 . Several tons have been extracted and put through a mill on the property, the concentrates going to Fernstrom & Co., Tucson.

The mill has a capacity of about ten tons per day. Hammer type breaker, ball mill, concentrating table, with elevator to fine ore bin. The crushing equipment is unsatisfactory, especially on the hard pegmatite and granite which in addition to the quartz, carries the metal. Jaw crusher should be installed. In the past the ore has been reduced to 30 mesh before leaving screen in mill, in order to bring the concentrate up to 60% or better. However, it is believed that a coarser grind, making a rough concentrate of 40% or better, will increase capacity 100%. Concentrates are shipped to cleaning plant in any event. In addition, this procedure will conserve water.

At present water is obtained from a 35' well in the wash below the mill. Well is 4' by 4' and bottoms in loose rock. In ordinary seasons there has been ample water for small operation, but insufficient during the past dry season. Deepening the well to 75' should produce sufficient water for the mill, provided water is reclaimed from sump in tailing pond.

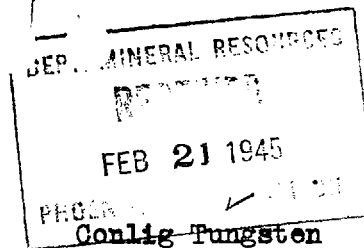
There is a large potential tonnage of ore which will run 0.75% or better WO_3 . Mill capacity should be stepped up to 25 tons per day by (1) installing jaw crusher, (2) coarser screen in ball mill, (3) development of more water.

/s/ G. A. Ballam

- Road Conditions, Route:** Road is readily passable for auto and with an expenditure of \$100 or so could be put in good condition. The county would doubtless assist in the improvement. Property is 6-1/2 miles from San Juan siding on the E P & S W line which is reached from Highway 80 in a distance of 4 mi., or from the Powder Plant road about 6 mi., better road.
- Water Supply:** One shallow well sunk in a fault supplies water for camp purposes, and with depth might supply a small mill. Other wells in the vicinity, 40 ft. to 60 ft. deep, indicate water ample for a small plant, and the San Pedro river, about 10 miles on an air line would furnish unlimited water.
- Brief History:** Property was originally located in 1915 by a man named Williams who made considerable production during the World War period when the price was high for all tungsten minerals.
- Special Problems, Reports Filed:** Report is said to have been made by Jonathan Gordon, Tombstone, Arizona, but has not been filed in the District Office.
- Remarks:** This property appears as one with geologic conditions favorable for the occurrence of tungsten, and there are a great many surface exposures where tungsten minerals are visible. A thorough appraisal of the property and its possibilities would entail far more time and expense than the scope of this department permits. It is recommended, however, for further investigation.
- If Property for Sale, Price, Terms and Address to Negotiate:** The original owner's report on this property filed with this department bears the following: "For sale or lease on royalty basis. Would take partner provided sufficient capital for real operation, say \$25,000, beginning with \$5,000. Royalty 10% of net. Sale price \$100,000."

/s/ Miles M. Carpenter, E. M.

February 19, 1945



MEMORANDUM

To: Earl Hastings
From: George A. Ballam

The following is an itemized list of equipment purchased for the Chadwick tungsten mill, and labor expense incurred in installing same:

Weaver impact crusher	\$ 550	
Wheeler self-class. ball mill	650	
Diester table	150	
Water tank - 5000gal.	100	
Bucket elevator	150	
2 gas engines (automobile)	300	
4 tons balls	240	
Lumber - 4M ft.	300	
Cement, floor, foundations, etc.	100	
Pulleys, belting, shafting	300	
Compressor, jackhammers, steel		
Paid \$600 sold for \$300	300	
Utility car	1100	
Gas and oil for mill	200	
40' well and cribbing	500	
House for camp	200	
Misc. equipment, Hdw. etc.	250	
Total equipment	5390	5390
Labor		
2 men at \$3.50, 300 days	2100	
1 man at \$4.00, 300 days	1200	
15% for insurance, SS, etc.	495	3795
Chadwick, 18 mos. at \$200		3600
Total. labor, equipment, and salary		\$12785

This final figure is somewhat different from the original which had not been broken down. The house at camp was stripped and most of the records scattered. Payroll can be verified. Much of the equipment is now in poor shape and I believe the estimate on salvage is reasonable.

Labor includes experimental work over a period of months which can reasonably be included.

Just called Forey and he will mail you the additional information required.

Geo A. Ballam

G.

E. A. JACOBS

CERTIFICATE OF ASSAY

REGISTERED ASSAYER

Cor. Main and Mesilla Sts.

Certificate No. 37576

TUCSON, ARIZONA,

Nov 28 1934

Sample Submitted by Mr. M M Carpenter

M M Carpenter

ALL SAMPLES ASSAYED IN DUPLICATE

WE DO NOT QUOTE ON SINGLE WORK

SERIAL	SAMPLE MARKED	GOLD OZS. PER TON ORE	GOLD VALUE PER TON ORE \$	SILVER OZS. PER TON ORE	COPPER PER CENT WET ASSAY	LEAD PER CENT WET ASSAY	PER CENT WET ASSAY
94910	#1 Concentrate Weight 3# net		\$	Tungsten Trioxide	34		8% WO3
94911	#2 Concentrate Weight 8# 6oz			Tungsten Trioxide	21		9% WO3

Gold Figured \$ 6.00 *REJ*

Very Respectfully *E A Jacobs*

DEPARTMENT OF MINERAL RESOURCES
STATE OF ARIZONA
FIELD ENGINEERS REPORT

Mine Conlig Tungsten ✓ Date February 24, 1945
District Whetstone, Cochise County Engineer Earl F. Hastings
Subject: Metals Reserve Company Contract Settlement Claim

✓ This department has been familiar with the claimant, J. Dewey Chadwick, and his property for a period of years and has rendered assistance in the preparation of this claim.

It is our belief that favorable consideration be given this claim for the following reasons:

- 1) The claimant is a responsible and capable operator and failure of the enterprise cannot be attributed to acts within his control.
- 2) The enterprise was, in good faith, predicated upon an increasing price of tungsten resulting from shortage for war purposes.
- 3) The investment was valid, and reasonable in amount considering the work accomplished and installations made.
- 4) The property was and is capable of production. This department recommended that an R.F.C. mine loan be approved after having reviewed the application and our files, and filed with the R.F.C. such recommendation.
- 5) Profitable operation could be maintained under the terms of the tungsten purchasing program, but profitable operation is not possible under present conditions.
- 6) The estimated salvage value of equipment is reasonable, and that salvage is the only tangible asset under current conditions except the claim for capital recovery under the Contract Settlement Act of 1944.

Projects Engineer

under the conditions.

You had better start checking
the law and see what appeals
can be made.

I don't think any claims
will be considered on their merits
until the legal status is decided.

Will have more on this matter
tomorrow - so far the lawyers are
doing all the considering, so any
claims had better be well bolstered
with jargon and references to the
law.

Bill

United States Senate

MEMORANDUM

REPT. OF SECURITIES
MAR 26 1945 3/23/45

Check -

We are going to have one tungsten termination claim turned down on purely legal grounds on the supposition that the Eligible Producers Contract was a firm contract and that the penalty payment, if any, fulfills it completely. M.P.C. will say that there is nothing in the law which provides for payments

DEPARTMENT OF MINERAL RESOURCES

STATE OF ARIZONA

FIELD ENGINEERS REPORTNEWS ITEM

Mine Conlig Tungsten Mines

Date Nov. 16, 1951

District Whetstone Mining District

Engineer Axel L. Johnson

Subject: News Item-- Source of Information--- D. F. Gordon

Location In Whetstone Mts. Cochise County, 15 miles SW of Benson, and 31 miles NW of Tombstone. It is about 3/4 mile SW of McGrew Spring.

Number of claims 22 unpatented claims.

Owners Robert Keenan, Box 407, Tombstone, Ariz. ---- 1/2 interest
D. F. Gordon, Box 516, Tombstone, Ariz. ---- 1/2 interest

Metals Tungsten ores--- Scheelite and Wolframite, wolframite predominating.

Men Employed None. Owners have been doing some exploration work themselves.

Milling Facilities No milling facilities in the immediate vicinity. Property needs the installation of a mill, as the ore in most places is of low grade, but a large quantity of low grade milling ore is available.

Operators for the present will send the ore to the Lomalina Mill at Tombstone for treatment, and for a milling test. This will be only a small quantity of ore obtained from exploration work. At present the operators claim to have a stockpile of 10 tons of 3 % ore ready for milling.

Ore Values Property has pegmatite veins of 1 inch to 2 or 3 ~~inches~~ feet in thickness containing tungsten ore running up to a maximum of 8 %. The hill in which these veins occur is about one mile long and one mile wide, and it is believed by the owners that the whole hill would average about 0.25 % of tungsten trioxide. There is no overburden over the deposit. It is believed by the owners that a large scale open pit operation, with a mill to take care of the milling of all of the ore, would be a paying proposition.

Geology See University of Arizona Bulletin "'Tungsten Deposits of Arizona'"--p. 45.

Past Production Small. See Bulletin referred to above.

Present Operations Limited to exploration on a small scale by above owners.

Proposed Plans The owners would like to sell or lease the property to a producer who would be willing to mine it on a large scale and erect a mill to mill the ore on the site.

Special Difficulties Lack of milling facilities.

Remarks This report should replace the report written on this property under date of Oct. 4, 1951.

Shop No. **1634-37**
 File No. **192 DU**

CHAS. A. DIEHL

Phone 3-4001

Phoenix, Arizona

Arizona Assay Office

P. O. Box 114

VALUES
 Latest Quotation

1 oz. Gold.....
 1 oz. Silver.....
 1 lb. Copper.....
 1 lb. Lead.....
 1 lb. Zinc.....

815 North First Street

1 Jan 1953

MR. CHAS. H. DUNNING

Short Ton - - - - 2000
 Short Ton Unit - - - - 20
 Long Ton - - - - 2240
 Long Ton Unit - - - 22.4

THIS CERTIFIES
 samples submitted for assay
 contain as follows:

CHADWICK TUNGSTEN

MARKS	SILVER PER TON		VALUE	GOLD PER TON		VALUE	TOTAL VALUE PER TON of Gold & Silver	%	PERCENTAGE		REMARKS
	Ozs.	Tenths		Ozs.	100ths				W	O ₃	
1								0.23			
2								0.04			
3								0.37			
4								0.08			

Handwritten notes and signatures:

CHADWICK TUNGSTEN
 1 - 0.23
 2 - 0.04
 3 - 0.37
 4 - 0.08

Checked by
 [Signature]

1 - 0.23
 2 - 0.04
 3 - 0.37
 4 - 0.08

1 - 0.23
 2 - 0.04
 3 - 0.37
 4 - 0.08

ATL ARIZONA TESTING LABORATORIES

PHONE 3-6272 817 WEST MADISON P. O. BOX 1888 PHOENIX

Chemists... Engineers

For C. H. Dunning

Date January 6, 1953

Sample of Ore

Received:

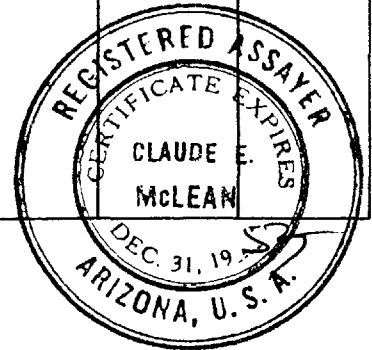
Submitted by: Same

ASSAY CERTIFICATE

Gold figured at \$ per ounce.

Silver figured at \$ per ounce.

Lab. No.	Identification	Gold		Silver		Percentages	
		Oz. per Ton	Value	Oz. per Ton	Value	Tungsten (WO ₃)	
93810	1 Cross face of cut 50' NE					0.02	
93811	2 Trench 100' east - by habitat					0.02	
93812	3 General at 80' shaft - by Keenan					0.46	
93813	4 High grade pile (2 tons) by Leoline					0.60	



Respectfully submitted,
ARIZONA TESTING LABORATORIES

Claude E. McLean
Claude E. McLean

Charges: \$ 20.00

ATL ARIZONA TESTING LABORATORIES

PHONE 3-6272 817 WEST MADISON P. O. BOX 1888 PHOENIX

Chemists... Engineers

For **Mr. C. H. Dunning**

Date **December 23, 1952**

Sample of **Ore**

Received:

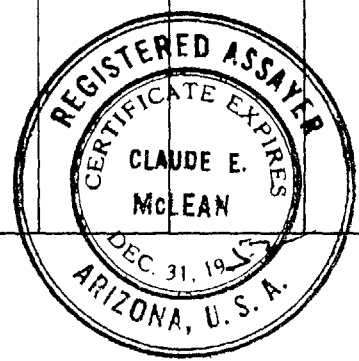
Submitted by: **Same**

ASSAY CERTIFICATE

Gold figured at \$35.00 per ounce.

Silver figured at \$0.90 per ounce.

Lab. No.	Identification	Gold		Silver		Percentages	
		Oz. per Ton	Value	Oz. per Ton	Value	Tungsten (WO ₃)	Ch ⁺ w/
93409	1 <i>Sample of ore from 30' shaft</i>					None	.04
93410	2 <i>Low grade pile near 40' shaft</i>					None	
93411	3 <i>Dump of hole with leg - Far East</i>					None	.04
93412	4 <i>Sample of ore from 40' shaft</i>					None	
93413	4B <i>Sample of ore from 40' shaft</i>					None	
93414	5 <i>Selected specimens for average</i>					1.40	
93415	6 <i>Selected specimens average</i>					None	
93416	7 <i>" " no mineral showing</i>					None	



Charges: \$ 40.00

Respectfully submitted,
ARIZONA TESTING LABORATORIES

Claude E. McLean
Claude E. McLean

MC-16

Dec. 1, 1939

TUNGSTEN-14 claims unpatented; $6\frac{1}{2}$ miles on good dirt road to railroad; developed by 200 pits 2' to 10' deep and a 60' shaft; schist with aplite and pegmatite dikes; claim low grade ore, 0.5% high grade up to 5% WO₃; camp water; for sale, lease, or partner, price \$100,000 - would consider partner to further develop; Whetstone Mining District, Cochise County

MC-16

OR

NOT for sale or lease

See letter map file

DEPARTMENT OF MINERAL RESOURCES
STATE OF ARIZONA
FIELD ENGINEERS REPORT

Mine Conlig Tungsten Mines

Date Jan. 16, 1953

District Whetstone Mining Dist., Cochise Co.

Engineer Axel L. Johnson

Subject: Mine Report ---- Source of Information ---- Robert Keenan

Location Secs 25 & 26 -- T 18 S -- R 19 E. In Whetstone Mts., 15 miles SW of Benson, and 31 miles NW of Tombstone. Road into the property is good.

Number of Claims 22 unpatented claims.

Owners Change of ownership the past 30 days. Ownership now reported by Mr. Keenan to be as follows:

✓ Whetstone Mining Co., a joint venture with the following ownership in same:
✓ Stansbury Corporation, Bakersfield, Calif. and
✓ Del Webb Associates, Phoenix, Arizona. -----51 %

see'd 2/18
✓ Freeman Lomelino, 3488 Via Golondrina, Tucson, Ariz. '
✓ Robert Keenan, c/o Chicago Motel, Benson, Ariz. '
✓ Joe Basabe, 130 E. Glendale Ave., Phoenix, Ariz. '-----49 %
✓ Ray Craig, Morris, Ill. '

Operators Same as above, ---Whetstone Mining Co., 3488 Via Golondrina, Tucson, Ariz.

Principal Minerals Tungsten in the form of Wolframite, and Scheelite, Wolframite predom.

Production Rate No production as yet. Mill sample of 600 lb. being taken to the Hillside Mill at Bagdad for a mill test. Operators expect to start production within 30 days, if the mill test proves to be favorable. W. C. Richter is engineer for the Del Webb Associates, taking care of the Del Webb interests at the property.

Topography, Geology, etc. See previous reports on the property.

Ore Values According to Mr. Keenan, the operators believe that the whole deposit will average about 0.25 % WO_3 . Mr. Keenan states that their lowest assay is 0.17 %, and that they have several assays running in the neighborhood of 2 % WO_3 . They also expect to recover a great deal of mica as a by-product in the milling operation.

Ore in Sight and Probable Mr. Keenan claims to have 200 tons of 2 % ore and 400 tons of 1 % ore blocked out by wagon drill holes and other exploration work.

Milling and Marketing Facilities The company is planning to acquire the Tombstone mill for milling the ore. (says they have a six month redemption clause for meeting old payments on same). Mr. Keenan claims that they will enlarge this mill to approximately double the present capacity by the addition of a ball mill and more flotation cells. He says that they confidently expect an 80 % recovery of the tungsten values, and, in addition a considerable amount of mica, as a by-product.

Present Mine Workings (For old workings, see previous reports) Present operators have put down a number of wagon drill holes, and have done extensive sampling since acquiring the property about 30 days ago.

Present Operations Operators are now making an open cut by drilling, blasting, and digging with a 1 1/2 yd. diesel power shovel. A representative 600 lb. sample from this cut is being sent to the Hillside Mill at Bagdad for a mill test.

DEPARTMENT OF MINERAL RESOURCES
STATE OF ARIZONA
FIELD ENGINEERS REPORT

2-15-56

Mine ✓ Chadwick Claims -- Conlig Mine Date
District Whetsone Mining Dist., Cochise Co. Engineer
Subject:

Please file this under " Conlig Tungsten Mines "

DEPARTMENT OF MINERAL RESOURCES
STATE OF ARIZONA
FIELD ENGINEERS REPORT

Mine Conlig Tungsten Mines

Date Feb. 15, 1956.

District Whetstone Mining Dist., Cochise Co.

Engineer Axel E. Johnson

Subject: Present Status.

References Please see my report of this property under date of Jan. 16, 1953.

Owners The owners, which were listed in my report of Jan. 16, 1953, ~~have~~ discontinued operations at the property, after exploration work and mill tests proved to them that the property could not be operated on a large scale at a profit. It is reported that none of the owners, listed in my Jan. 16 report, is now interested in the property, and that they have abandoned same.

Present Status Apparently, as far as can be determined, this property is now open for location.

1945

Metals Reserve Company
811 Vermont Avenue
Washington, D. C.

Gentlemen:

Pursuant to the provisions of the Contract Settlement Act of 1944 (Public Law 395 - 78th Congress, 2nd Session) and in accordance with the Reconstruction Finance Corporation Contract Settlement Regulation No. 1, I, J. Dewey Chadwick, Tombstone, Cochise County, Arizona, respectfully submit my claim in the amount of \$11,285.00. Data in support of, and information relative to, such claim is as follows:

1) I am the sole owner, by location, of 14 mineral lode claims located in the Whetstone Mining District, Cochise County, Arizona. This property is known as the Conlig Tungsten mine and has been the subject of development over a period of years for the reason that it offered most favorable possibilities for the production of tungsten ores. Development consisted of some 200 shafts, tunnels and open cuts, the majority of which exposed a milling grade of ore. (See attached reports by Jonathan Gordon, E.M., dated 1934; Miles M. Carpenter, E.M., Field Engineer, Department of Mineral Resources, State of Arizona, dated December 1, 1939; G. A. Ballam, Field Engineer, Department of Mineral Resources, State of Arizona, dated December 16, 1942.)

2) Following the outbreak of the war and in consideration of the urgency of tungsten production, I installed upon the premises a mill (see photo, Exhibit "A" attached) having an approximate capacity of 10 tons per day. This equipment consisted of:

<u>Equipment</u>	<u>Cost</u>
Weaver Impact Crusher	\$550.00
Wheeler self-classifying Ball Mill	650.00
Diester concentrating table	150.00
Water tank - 5,000 gal. cap.	100.00
Bucket elevator	150.00
Gas engines (2 automobile)	300.00
Balls for ball mill - 4 tons	240.00

<u>Equipment</u>	<u>Cost</u>
Lumber - 4M ft.	\$300.00
Cement	100.00
Pulleys, belting, shafting, etc.	300.00
Compressor, drill steel, jackhammers (Paid \$600.00 and sold for \$300.00)	300.00
Utility car	1,100.00
Gas and oil (for mill operation)	200.00
Cribbed 40 ft. wall	500.00
House for camp	200.00
Miscellaneous equipment & supplies	<u>250.00</u>
Total equipment and supplies	\$5,390.00

Labor included in mining preparation, the construction of the mill, and experimental work necessary was as follows:

2 men @ \$3.50 per day - 300 days	\$2,100.00
1 man @ \$4.00 per day - 300 days	1,200.00
15% added for camp insurance, O.A.B., etc.	495.00
Salary for self, 18 months @ \$200.00	<u>3,600.00</u>
Total labor	\$7,395.00

My personal investment, in time and money, less an elaborate allowance for the salvage value of the plant can be recapped as follows:

Machinery and supplies	\$5,390.00
Labor	<u>7,395.00</u>
Total	\$12,785.00
Less salvage value	<u>1,500.00</u>
Total of net claim	\$11,285.00

3) In March, 1943 I made application to the R.F.C. Mine Loan Division for funds with which to further develop the mining property. A mine loan in the amount of \$5,000.00 was granted in April, 1943 and was expended in the development of additional ore. No part of this loan was used for mill installation or improvement. Development continued to December, 1943.

4) In May, 1943 a token shipment of concentrates was made to E. Fernstrom, Ore Buyer, Tucson, Arizona. This shipment assayed 48.6% WO_3 , and after removal of magnetic impurities assayed 63.2% WO_3 . (Jacobs Assay Office Certificate No. 41774 - photostatic copy attached). This shipment indicated that the product was of satisfactory quality and could be cleaned in Mr. Fernstrom's plant.

5) In June 1943 my application, Form "C", as a "Qualified Producer" was confirmed by the Metals Reserve Company (original confirmation attached).

6) Upon completion of the development program, as in paragraph 3 above, I was in a position to resume milling and continue in steady production. I learned, however, that the tungsten purchase program was to be discontinued and my operation was such that I could not profitably proceed with a reduced price of tungsten.

7) In view of the above I suspended all operations, and when the settlement option was announced in February, 1944, I was unable to participate by reason of that suspension. Thus, only through the Contract Settlement Act is there opportunity to retrieve the losses heretofore tabulated and claimed.

8) The location and nature of the mill is such that conversion to concentration of ores other than tungsten is impossible. There has been no opportunity to redeem any part of the loss by this or other means.

9) The success of my enterprise was contingent upon a sustained increased value of tungsten. My investment was predicated upon this sustained value and the sole reason for the failure of the enterprise and loss of capital was the cancellation of the M.R.C. tungsten purchasing program and subsequent reduction in value of tungsten.

10) I certify that this claim, and all acts out of which this claim has arisen, are and were on my part in good faith. I further certify that all data pertaining to, and information relating to, this claim are, to the best of my knowledge and belief, included herein and/or attached

hereto.

J. Dewey Chadwick
P. O. Box 692
Tombstone, Arizona

Subscribed and sworn before me this _____ day of _____ 1945.

Notary Public

THE CONLIG - TUNGSTEN MINES

This property, the Conlig-Tungsten Mines, is situated in the Whetstone Mining District, at the mouth of Guindani Canyon in the Whetstone Mountains, Cochise County, Arizona; in sections 25 and 26, T. 18 S. R. 19 E. of Gila and Salt River Base and Meridian; six miles from San Juan station on the Southern Pacific Railway and ten and one-half miles Southwesterly from Benson, Arizona.

Elevation at San Juan Station is 3,900 feet and at the base of the hill on the easterly end of the property on the Conlig #1 claim is 4700 feet, and at the highest point on the ground near the west end is 5,850 feet above sea level.

The group comprises 14 claims and covers 280 acres more or less.

The terrain covered by the property is roughly broken - abrupt hill slopes. Slopes of 35 degrees are found and the longitudinal axis (E-W) of the main ridge, reaching from the west side of Conlig #4 to the east side of Conlig #1 has average slope of 21 degrees.

The mineral deposit occurs in as a strong pegmatite intrusion which came up under the precambrian schist, is white in color and coarsely crystalline; grades into aplite still light colored. The feldspar in the pegmatite and also in the aplite have been much altered, giving rise to a crop of sericite, some of the rock yielding up to 70% mica.

A series of linked and connecting quartz veins and veinlets of from one inch to four feet in thickness, with a general strike of NE dipping 70 degrees N. W. constitute a stockwork carrying good values in tungsten minerals, principally as wolframite, with some dark colored scheelite also.

The development consists of approximately 2,500 feet of workings in the form of shafts, adits, pits and cuts, with an aggregate of 200 in number, all showing tungsten minerals.

The area of greatest development is on the Conlig #1 claim, where 60 shafts and pits have been sunk. In this area a 60-foot shaft, the deepest working on the group is still in ore and shows ore to the bottom, with the average as shown by the dump of 2% tungstic trioxide.

An area "A" of 11 acres on this claim gives an average of one-half of one per cent of tungstic acid and assures at least 3,000,000 tons of ore, when calculated to a depth of 60 feet, of the grade as above stated.

A sub-area "A 1" on the southerly end of this area already included in area "A" 400 feet N. E. - S. W. by 150 feet N. W. - S. E., with shaft no. 48 (60 ft. shaft) as the center, indicates 300,000 tons of 2% W_2O_3 ore and another sub-area "A2" 450 feet northeasterly from shaft #48, shows for 200 feet E. W. and 150 feet N. S. and allowing the same depth of 60 feet, has 150,000 tons of 2% tungstic acid as wolframite ore.

Areas "B" and "C" show ore of the same or similar grade and character, with 20 acres from "B" and about 10 acres for "C". See map.

Mineralization is not confined to these areas as tungsten minerals are found practically all over the Conlig claims Nos. 1 to 5.

There are 320 outcrop occurrences of ore noted marked by numbers on the

Conlig claims 1 to 4 and these outcrops alone will yield 1,000 tons of 10% W_2O_3 ore. This ore is crystalline disseminated wolframite with sometimes dark colored scheelite, through and in the pegmatite and aplites. Both wolframite and scheelite are found in the quartz veins. The crystal sizes vary from one inch down to one-thirtieth of an inch; however, crystals of 10 pounds have been found on the westerly end of the property.

The gravity of the gangue minerals is 2.66 and the specific gravity of the wolframite is 7.3 and of the scheelite is 6.00.

The gangue is holocrystalline and crushes readily and the mineral is released completely when reduced to the proper size.

Another source of income is from the mica recoverable by screening in the crushing and grinding of the ore for concentration. This by-product will amount to 25% of ore milled.

There is an ample supply of water in wells within the confines of the property, to supply the initial 50-ton mill, and any further quantity required can be developed, either on the ground itself or within a distance of one mile therefrom.

The property is served by a good mountain road from San Juan station on the Southern Pacific Railway, six miles in length with an average grade of two per cent.

The titles are vested by location under the laws of the United States and the laws of the State of Arizona.

Jonathan Gordon
September 16, 1934

DEPARTMENT OF MINERAL RESOURCES
STATE OF ARIZONA
FIELD ENGINEERS REPORT

Mine ✓ CONLIG TUNGSTEN

Date December 2, 1939.

District Whetstone, Cochise County.

Engineer Miles M. Carpenter, E. M.

Subject: Special Reconnaissance covering Ore Showings.

Geology. The country rock of this property is given a field classification as Muscovite Granite, but there is local variation in texture and component minerals. In places, this rock approaches pegmatite and in other places felsite but a rather coarse grained granite predominates.

The granitic mass is cut by numerous dike-like veins of dense white quartz showing a few scattered vugs with characteristic tiny quartz crystals. These veins vary in width from a few inches to a few feet with strikes ranging from E-W to about 30 deg S of W. The outcrops are relatively short, seldom more than 100 feet in length. The depth to which the quartz persists is not determined.

Mineralization. The principal tungsten mineral is a dark tungstate presumably Wolframite, but the ultra-violet ray lamp at the State Bureau of Mines showed the presence of Scheelite in small amounts in all specimens tested. It is noted that the tungsten minerals occur both in the quartz veins and in the enclosing granite walls, a rather common condition in tungsten veins, but they also occur in spots in the granite where no quartz is present. The occurrences of tungsten in the granite as far as inspected appear to follow lines roughly parallel to the quartz veins probably caused by light and irregular fissuring. The only distinctive mark of the tungsten bearing areas is strong sericitization, so far as noted.

Values. An idea of the value in tungsten was obtained thru samples taken (a) at the shallow open cut on a quartz vein where development is started, and (b) at openings on the hillside to the west where the tungsten is found in granite.

(a) This open cut is about 25 ft in length and 6 ft deep. Six shots were fired in the floor and material shoveled as a grab sample just as broken. It consisted of both quartz and granite. Width broken about 2 ft.

(b) Samples of the average material were taken from six openings, about 6 lbs each, and used as one sample.

These samples were handled as follows: All material was crushed to pass one-half inch. 42 lbs of (a) sample taken to represent the higher grade of ore was handled as Lot No 1. Equal parts of samplings (a) and (b) were mixed to represent an average of the better grade ore in sight and 63 lbs of the mixture was handled as Lot No 2.

No assays were made of the crude ore, so the results obtained represent recoverable tungsten tri-oxide (WO_3). The crushed ore was fed into a laboratory size ball mill and discharged at 16 mesh, feeding onto a laboratory size table. No effort was made to make a high grade concentrate.

M. M. C.

DEPARTMENT OF MINERAL RESOURCES
STATE OF ARIZONA
FIELD ENGINEERS REPORT

Mine CONLIG TUNGSTEN

Date December 2, 1939

District WHETSTONE DISTRICT, COCHISE COUNTY Engineer Miles M. Carpenter, E. M.

Subject: Special Reconnaissance covering Ore Showings Page 2

Mill Test

Lot	Lbs. Ore	Lbs. Conc.	%WO ₃ - Ore (Calculated)	%WO ₃ Conc.
1	42.0	5.0	4.14	34.8
2	63.0	8.375	2.19	21.9

Practical Considerations. With a current quotation for small lots of Wolframite concentrate at Tucson of \$18.00 per unit of 20 lbs WO₃ the ores figure in dollars and cents as follows:

Quartz vein as broken 4.14 units per ton, \$74.52
General sample of exposures 2.19 " " " , 52.38
Ore occurring in granite 1.69* " " " , 30.42*

*(Calculated from weights and difference in assays of Lots No. 1 and 2)

Under the conditions of location, accessibility and size of ore outcrops, this must be classed as exceptionally good ore. Mining on a small scale, say 5 tons per day, should be done for \$5.00 per ton or less either on contract or by day labor at the start of operations. Milling of this ore appears to be simple and with a well arranged little "raw hide" plant the cost should be kept below \$5.00 per ton, possibly as low as \$3.00. Ore from the granite ore bodies will have to be packed off the hill, from the veins on the piedmont it can be hauled to mill in tucks. For the small tonnage to be moved off the hill the cost will probably be \$1.50 to \$2.00 per ton for packing, tho it is recognized that \$1.00 per ton is a customary contract price for short packs.

No branch of mining shows wider variation in costs than the very small mining and milling operations, since it depends so largely on the ability of the one man in charge. In this case, I would say that the operating costs might be held as low as \$10.00 per ton and there should be no excuse for exceeding \$15.00 per ton as long as conditions continue substantially as at present.

With indicated values in recoverable tungsten of \$30 to \$75 per ton of ore, the margin for profit is wide enough to stand considerable decline in price, and/or grade and still remain a profitable undertaking. If the price and grade hold at present levels, this property promises returns out of all proportion to the small investment necessary to equip and put into operation on the small scale justified by the undeveloped status of the ore showings.

While this report has heretofore stated that no blocked tonnage of ore can be claimed, there are exposures of sufficient number and size to indicate a cheap plant. If the equipment for such a plant is standard, and in good condition there would be little depreciation in value from several months use. So it would be possible to measure the capital necessarily risked in opening this property in hundreds of dollars.

M. M. C.

DEPARTMENT OF MINERAL RESOURCES
STATE OF ARIZONA
OWNERS MINE REPORT

Report by
A. Brodie Campbell

Date May 13, 1942

- 1. Mine Chadwick Claims - Conlig Mine
- 2. Mining District & County Whetstone District,
Cochise Co.
- 3. Former name Euclid Mining Co.
- 4. Location Whetstone Mts., 15 miles SE
Benson. sw
- 5. Owner Dewy Chadwick
- 6. Address (Owner) Box 692, Tombstone, Ariz.
- 7. Operator Same
- 8. Address (Operator) Same
- 9. President
- 10. Gen. Mgr.
- 11. Mine Supt.
- 12. Mill Supt.
- 13. Principal Metals Wolframite, some scheelite
pyrite garnet.
- 14. Men Employed 1
- 15. Production Rate
- 16. Mill: Type & Cap. Gravity. 1 ton/hr.
- 17. Power: Amt. & Type Auto engines.
- 18. Operations: Present Develop and mill on hi-grade scale.
- 19. Operations Planned Develop on Government loan if possible.
- 20. Number Claims, Title, etc. 4 held by location
- 21. Description: Topography & Geography Flat to rugged mountainous. Semi-arid region.
- 22. Mine Workings: Amt. & Condition Considerable open cut and trenching.

veins from 1" to 2' in width striking through granite and
23. **Geology & Mineralization** Mass. Considerable faulting but no big faulting present on property. Wolframs and scheelite both occur in quartz. Wolframs predominate. Wolframs also occur in granite foot wall for no good reason. When in granite it is usually accompanied with Powellite. Some gyrite and sericite present.

24. **Ore: Positive & Probable, Ore Dumps, Tailings** None

24-A **Vein Width, Length, Value, etc.**

25. **Mine, Mill Equipment & Flow Sheet** Mine run to Hammer-mill. To Calif. Type ball-mill screen dischg. To Plato table. All powered by two auto engines. Has small portable compressor but it is not on property.

26. **Road Conditions, Route** Good road to within 3 mi. of prop. Fair from there on. Go from Benson to Guard station of Apache Powder Works. Take road that goes west from there. Stop at ranch 9 mi. along this road and inquire.

27. **Water Supply** Poor, and would be difficult to develop locally.

28. **Brief History** Started about 1909. Very small hi-grade prod. Not probable that the property has produced more than 50 units.

29. **Special Problems, Reports Filed** Tungsten Deposits of Ariz., Wilson, 1941.

30. **Remarks** This property might become a producer in a very small way. The veins are quite small and irregular. Tungsten in the granite is very spotty and apparently has no structural parent to locate it by.

31. **If property for sale: Price, terms and address to negotiate.** Yes. Dewy Chadwick.

32. **Signed**.....

33. **Use additional sheets if necessary.**

0 e
MC 16

MC-16

DEPARTMENT OF MINERAL RESOURCES
STATE OF ARIZONA
OWNERS MINE REPORT

Date June 14, 1939

Mine Conlig Tungsten

District Whetstone

Location 10 mi Sw from Benson

Former name

Owner Paul T. Chadwick

Address 926 1/2 10th st. Douglas

Operator

Address

President

Gen. Mgr.

Mine Supt.

Mill Supt.

Principal Metals Wolframite

Men Employed

Production Rate

Mill: Type & Cap.

Power: Amt. & Type

Operations: Present nonwe

Operations Planned Depends on financing

Number Claims, Title, etc. 14 unpat'd Lode Claims on Coronado National Forest

Description: Topog. & Geog. S.E. Slope Whetstone Mts.

Mine Workings: Amt. & Condition 200 pits 2' to 10' 1 shaft 60' all open

Geology & Mineralization

Country rock schist batholith into overlying schist . Aplite and Pegmatite dikes and Both Aplite and Pegmatite mineralized

Ore: Positive & Probable, Ore Dumps, Tailings

Low grade ore (50 tons 0.5%) on dumps
Ore in place 0.3% - 5.0% WO_3

Mine, Mill Equipment & Flow Sheet

None

Road Conditions, Route

6 $\frac{1}{2}$ mi from San Juan Station on SP. on fair natural road.
San Juan Station is 4 mi from Hwy 80, 10 mi from St. David Bridge.

Water Supply

Surface water well on property. Ample for camp & with depth may supply mill. Sunk in fault

Brief History

Located by Williams in 1915 and produced. Amount not known.

Special Problems, Reports Filed

Report by Jonathan Gordon

Remarks

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

For sale or lease on royalty basis.

Would take partner provided sufficient capital for real operation, say \$25,000 total, beginning with \$5,000. Royalty 10% of net sales.
Price \$100,000.

Signed..... Paul J. Chadwick.....

Use additional sheets if necessary.

DEPARTMENT OF MINERAL RESOURCES
STATE OF ARIZONA
OWNERS MINE REPORT

MC-16

Date June 14, 1939

Mine Conlig Tungsten ✓

District Whetstone

Location 10 mi. SW from Benson

Former name

Owner Paul T. Chadwick ✓

Address 926½ 10th St., Douglas, Arizona.

Operator

Address

President

Gen. Mgr.

Mine Supt.

Mill Supt.

Principal Metals Wolframite ✓

Men Employed

Production Rate

Mill: Type & Cap.

Power: Amt. & Type

Operations: Present none.

Operations Planned Depends on financing.

Number Claims, Title, etc. 14 unpatented lode claims on Coronado National Forest.

Description: Topog. & Geog. SE slope Whetstone Mts.

Mine Workings: Amt. & Condition 200 pits 2' to 10' 1 shaft 60' all open.

(over)

Geology & Mineralization Country rock schist, Aplite and Pegmatatite dikes and batholith into overlying schist. Both Aplite and Pegmatite mineralized.

Ore: Positive & Probable, Ore Dumps, Tailings Low grade ore (50 tons 0.5%) on dumps
Ore in place 0.3% - 5.0% W03.

Mine, Mill Equipment & Flow Sheet None

Road Conditions, Route $6\frac{1}{2}$ miles from San Juan Station on SP on fair natural road.
San Juan Station is 4 mi. from Hwy. 80, 10 mi. from St. David bridge.

Water Supply Surface water well on property. Ample for camp & with depth may supply mill.
Sunk in fault.

Brief History Located by Williams in 1915 and produced. Amount not known.

Special Problems, Reports Filed Report by Jonathan Gordon.

Remarks

If property for sale: Price, terms and address to negotiate. For sale or lease on royalty basis. Would take partner provided sufficient capital for real operation, say \$25,000 total, beginning with \$5,000. Royalty 10% of net sales. Price \$100,000.

Not for sale - with wife

Signed..... PAUL J. CHADWICK.....

Use additional sheets if necessary.

DEPARTMENT OF MINERAL RESOURCES
STATE OF ARIZONA

FIELD ENGINEERS REPORT

Date December 1, 1939.

Mine CONLIG TUNGSTEN

Engineer Miles M. Carpenter

District Whetstone, Cochise County.

Location 11 miles S-SW from Benson

Former name Not known

Owner J. D. Chadwick
 (Paul J. Chadwick)?

Address Tombstone, Arizona.

Operator J. D. Chadwick

Address Same

President No Corporation

Gen. Mgr.

Mine Supt.

Mill Supt.

Principal Metals Wolframite (Scheelite minor) Men Employed 2 irregular

Production Rate Not established

Mill: Type & Cap. None

Power: Amt. & Type None

Operations: Present Development work on small scale

Operations Planned Depend on financing. Owner wishes to equip with a small mill and begin production.

Number Claims, Title, etc. 14 unpatented lode claims on Coronado National Forest. Title not investigated.

Description: Topog. & Geog. Ground covers a pediment which rises hundreds of feet to the west in a steep hill and spreads to a gently sloping plain to the east.

Mine Workings: Amt. & Condition Numerous shallow pits and open cuts 2 ft to 10 ft in depth, 1 shaft 60 ft, 1 shaft 40 ft. One shaft has water, the other lacks facilities for entry.

Geology & Mineralization The larger geologic features indicate a granitic batholith which has intruded and elevated the overlying schist and sedimentary rocks. Marked tilting and faulting to the west where the peaks rise 1500 feet or more above the pediment. See special report attached for details applying to this property.

Ore: Positive & Probable, Ore Dumps, Tailings

100 tons or so of ore at the various openings from which the higher grade material has been sorted out and marketed. No blocked tonnage can be claimed. No tailings.

Mine, Mill Equipment & Flow Sheet No mine or mill equipment.

Road Conditions, Route Road is readily passable for auto and with an expenditure of \$100 or so could be put in good condition. The county would doubtless assist in the improvement. Property is 6-1/2 miles from San Juan siding on the E P & S W line which is reached from H'way 80 in a distance of 4 mi., or from the Powder Plant road about 6 mi., better road.

Water Supply

One shallow well sunk in a fault supplies water for camp purposes, and with depth might supply a small mill. Other wells in the vicinity, 40 ft to 60 ft deep, indicate water ample for a small plant, and the San Pedro river, about 10 miles on an air line would furnish unlimited water.

Brief History

Property was originally located in 1915 by a man named Williams who made considerable production during the World War period when the price was high for all tungsten minerals.

Special Problems, Reports Filed Report is said to have been made by Jonathan Gordon, Tombstone, Arizona but has not been filed in the District Office.

Remarks

This property appears as one with geologic conditions favorable for the occurrence of tungsten, and there are a great many surface exposures where tungsten minerals are visible. A thorough appraisal of the property and its possibilities would entail far more time and expense than the scope of this Department permits. It is recommended, however, for further investigation.

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

The original owner's report on this property filed with this Department bears the following: "For sale or lease on royalty basis. Would take partner provided sufficient capital for real operation, say \$25,000, beginning with \$5,000. Royalty 10% of net. Sale price \$100,000."

Signed

Miles M. Carpenter, E.M.
Miles M. Carpenter, E. M.

Use additional sheets if necessary. Separate sheets on each problem.



EXHIBIT "B"

E. A. JACOBS, SR.
PHONE 130R

JACOBS ASSAY OFFICE

BEN P. JACOBS
NO. 30 SO. MAIN ST.

REGISTERED ASSAYERS

P. O. BOX 1889

Certificate No. 41724

TUCSON, ARIZONA, May 5 1943

Sample Submitted by Mr. E. Fernstrom

ALL SAMPLES ASSAYED IN DUPLICATE

DO NOT QUOTE ON SINGLE WORK

SERIAL	SAMPLE MARKED	GOLD		SILVER	COPPER	LEAD	
		OZS. PER TON ORE	VALUE PER TON ORE *	OZS. PER TON ORE	PER CENT WET ASSAY	PER CENT WET ASSAY	PER CENT WET ASSAY
104842	C (1)		\$ Tungsten Scrap			48 6/10	W ₃
843	C (2)		" "			63 2/10	"

Gold Figured \$ Per per oz. Troy

Very Respectfully

E. Jacobs
Propy

Charges \$ 6.00

LIBRARY
EAGLE-PICHER M. & S. CO.
FRANK H. LERCHEN
MINING ENGINEER

Tucson, Arizona, Nov. 24, 1937.

To Eagle-Picher Mining & Smelting Co.,
Tucson, Arizona.

Memo.
Conlig-Tungsten Mines,
Cochise County,
Arizona.

The Conlig-Tungsten mines are 15.8 miles southwesterly from Benson, Arizona, in the Whetstone Mountains, Cochise County, Arizona, 6.4 miles from San Juan siding on the Southern Pacific railroad.

For property holdings, geology and ore occurrence reference is asked to the report of Jonathan Gordon, dated April 11, 1935 herewith.

Several hours were spent on the Conglin property, covering the surface, and examining open-out workings described by Mr. Gordon, for a distance, along strike of the deposit, of several hundred feet -- possibly 1200 feet -- and a width of from 100 to 500 feet. There is, apparently, a very large area of granite, of pegmatite character, more or less mineralized with tungsten minerals. With no overburden with which to contend, if sampling proves the tungsten mineralized areas to be as extensive as claimed, and the values found to be as high as stated by Mr. Gordon, the deposits can be economically mined on a very large scale, and the ores profitably milled provided water can be developed on or near the property in sufficient quantity for milling purposes,-- with tungsten at the present or a higher market value. Shallow wells, drilled by ranchers in the gulches, or draws, at the base of the mountain in which the ore deposits occur, about $\frac{1}{2}$ mile from the property, have produced water sufficient for live-stock and domestic uses at depths of less than 100 feet from the surface. A large flow of water could probably be developed with deep drilling.

The numerous shallow cuts made show tungsten-mineralization for several thousand feet along the northeast-southwest axis of the granite mountain that rises to a peak of over 1000 feet -- vertical distance -- above the lowest mine workings. The material taken from these cuts, amounting in total to several hundred tons, will afford the most feasible, practical and satisfactory means of sampling the deposits to the shallow depths reached. With such a sparsely mineralized mass of rock -- practically a whole mountain -- cut- or channel-, samples would be very unsatisfactory and probably misleading. For sampling purposes the different areas, as described by Mr. Gordon, could be sectioned, or staked, and mill runs made of from a few to several hundred tons lots for determination of values and recoveries. Should the shallow workings products show sufficient values to warrant further investigation churn- or diamond-drilling could advantageously follow.

The finely-disseminated occurrence of the tungsten minerals in the granite, with but very occasional occurrences of veinlets of quartz containing stringers of high-grade tungsten minerals, precludes profitable selective mining methods.

Yours truly,


F. H. Lerchen.

Property visited November 21, 1937.

CONLIG MINE *Tungsten - WO₃*

Whetstone Mountains, Cochise County, Arizona

The Conlig mine lies on the eastern slope of the Whetstone Mountains 15.7 miles southwest of Benson, at the western edge of Cochise county in southeastern Arizona. Access is by means of the road leading to the Lone Star fluorspar mine, an active producer. The road to the Conlig property leaves the main road 15.3 miles from town, heading north.

The property covers the ridge between Gadinia Canyon, on the north, and Middle Canyon on the south. Precambrian (?) granite lies on the northern slope, and quartz-sericite schist on the southern. Development consists of a series of trenches, pits and shallow shafts running northerly for some 300 feet from the vicinity of the schist-granite contact. These workings are on the larger of a series of narrow veins and veinlets of quartz. These veins strike $N 70^{\circ} - 80^{\circ} E$ and dip $60^{\circ} - 70^{\circ} N$.; they carry irregular coarse pyrite, and, mostly in the walls, slight amounts

of wolframite and traces of torbernite. Samples, dump and channel, were taken from 7 of the workings, a road cut and a truck load of ore. A high-grade dump, of sorted material, ran 0.5-1.0% W, all the others were less than 0.01%; all samples were under 0.1% flux.

The property was visited on Feb. 4, 1953, in the company of Dale LaMolina, of Tucson. Dale's father and Mr. Basabe are the owners, along with Robert Keenan, of 3488 Via Colondrina, Tucson, phone 61589. Mr. Keenan, a promoter, estimated an average grade of 0.31% WO₃. There are 90 claims in the group.

The deposit is big enough to support a large-scale operation, but its grade is far below that estimated by Mr. Keenan; it is not of present economic interest.

Grand Junction

June 4, 1954

W. B. Loring

Geologist

THE CONLIG-TUNGSTEN MINES.

The Conlig-Tungsten Mines property is situated at the mouth of Guindani Canyon, in the Whetstone Mountains, Cochise County, Arizona, in sections 25 and 26, Township 18 south, Range 19 east, of Gila and Salt River Base and Meridan; lying 10¹/₂ miles southwesterly from Benson, Arizona, and 6 miles westerly from San Juan station on the Southern Pacific Railway.

The elevation of San Juan station is 3,900 feet the base of the hill on the Conlig-No.1 claim, is 4,700 feet and the high point on the property on the Conlig No.4, is 5,850 feet above sea-level.

The group comprises 12 mining claims and covers 240 acres, more or less.

The terrain covered by the property is roughly broken, with abrupt hillslopes. On the north-west quadrant of the group a slope of 35 degrees from the apex of the ridge, is 1,300 feet to the bottom of Guindani canyon. The longitudinal axis -east-west- of the main ridge has an average slope of 21 degrees for 2,800 feet.

The mineral deposit occurs in as a strong pegmatite intrusion which came up under the pre-Cambrian schists, is white in color and coarsely crystalline; grades into an aplite still light colored. This alaskite pegmatite was, before alteration, composed of orthoclase feldspar and quartz, with an occasional book of muscovite; however the feldspars have been much altered giving rise to a crop of sericite, some of the rock yielding up to 70% mica.

(2)

THE CONLIG-TUNGSTEN MINES.

A series of linked and connecting quartz veins and veinlets, of from one inch to four feet in thickness, with a general strike of northeast, dipping 70 degrees northwest, constitute a stockwork carrying good values in tungsten minerals, principally as wolframite and with some dark colored scheelite. There is no overburden to mask the bedrock so the mineral is readily found.

The development consists of approximately 2,500 feet of working in the form of shafts, adits, pits and cuts, with an aggregate of 200 in number all showing tungsten minerals.

The area of greatest development is on the Conlig No.1 claim, 60 shafts and pits have been sunk. In this area a 60 foot shaft, the deepest working on the group, is still in ore and shows to the bottom, with an average as shown by the dump, of 2% tungstic trioxide.

An area "A" of eleven acres on this claim gives an average of one half to one percent tungstic acid, and assures 3,000,000 tons of ore to a depth of 60 feet of the grade as above stated.

Sub-area "A-1", on the southerly end of this area and part of it, shows 400 feet northeast and southwest by the 150 feet northwest-southeast, with the 60 foot shaft as the center, indicates 300,000 tons of 2% tungstic acid ore, and another sub-area "A-2", 450 feet north from the 60 foot shaft (No.48) shows for 200 feet east-west and 150 feet north-south and allowing the same depth of 60 feet, has 150,000 tons of ore of 2% tungstic acid (WO₃) content, as wolframite ore.

Areas "B" and "C" show ore of the same or similar grade and character, with 20 acres for "B", and about 10 acres for "C". See map.

(3)

THE CONLIG-TUNGSTEN MINES.

The mineralization is not confined to these areas, as tungsten minerals are found in the alaskite, in the aplite dikes and in the quartz veins in the alaskite. However the largest crystals of wolframite are found in veins in the schist, wherein the quartz lenses overlap each other; these veins vary from one foot to six feet in width, and pieces of wolframite of sixty pounds have been found therein. Tungsten minerals are found practically all over the Conlig claims Nos. 1 to 6.

There are 320 outcrop occurrences of ore noted, marked on the ground by numbers, on the Conlig claims Nos. 1 to 4; these outcrops alone will yield 1,000 tons of 10% WO₃ ore. This ore is found as disseminated wolframite and sometimes some dark colored scheelite, through and in the pegmatite and aplite. Both wolframite and scheelite are also found in the quartz veins. The crystal sizes of the minerals vary from the one-thirtieth of an inch up to one inch--- and 6 inches.

The gravity of the gangue is 2.66 and the specific gravity of the wolframite is 7.3, that of scheelite 6.0. The gangue is holo-crystalline therefore the ore crushes readily and the mineral is released completely when reduced to the proper size.

Another source of income is from the mica, which is recoverable by screening during the preparation of the ore by grinding, for concentration. This by-product will amount to 25% of the ore milled.

A, pilot mill treating 50 tons per day, could be operated on 2% ore from the sub-area "A-1" and "A-2". The mining of this ore to a 2% grade would cost from \$3.00 to \$5.00 per ton, and the milling cost would be \$3.00 per ton. On the basis of a saving of 85% and a concentrate of 70% WO₃, with a sale price of \$16.00 per unit or \$11.20 per unit of 70% concentrate, the daily yield from 50 tons of ore, on the above recovery, would be 1.214 tons of concentrate, worth \$1,359.68, less freight at \$30.00 per ton or \$36.42 freight on the lot, leaves \$1,323.26. Working costs, that is, mining and milling, \$400, leaves \$923.26 profit on the daily lot.

THE CONLIG-TUNGSTEN MINES.

There is an ample supply of water within the confines of the property, to supply the initial 50 ton mill, and any further quantity of water required, can be developed either on the ground itself or within the distance of one mile.

Ore of a much higher grade can be produced by selective mining at a little higher cost, which would however, give a greater yield of concentrates and a greater return in money.

The property is served by a good road from San Juan station on the Southern Pacific Railway, six miles in length with an average grade of 2%.

The titles are vested by location, under the laws of the United States and the State of Arizona.

I recommend the installation of a mill with a capacity of 50 tons daily, for the initial campaign, to which additional units could be added as desired.

JONOTHAN GORDAN, E.M.
Tombstone, Arizona.
April 11, 1935.