



CONTACT INFORMATION

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12/04/96

ARIZONA DEPARTMENT OF MINES AND MINERAL RESOURCES FILE DATA

PRIMARY NAME: APACHE MINE

ALTERNATE NAMES:

SAM JENSON LEASE
APACHE TIN

GRAHAM COUNTY MILS NUMBER: 86

LOCATION: TOWNSHIP 7 S RANGE 30 E SECTION 31 QUARTER SW
LATITUDE: N 32DEG 46MIN 35SEC LONGITUDE: W 109DEG 18MIN 53SEC
TOPO MAP NAME: GUTHRIE - 15 MIN

CURRENT STATUS: EXP PROSPECT

COMMODITY:

TIN
IRON

BIBLIOGRAPHY:

ADMMR APACHE MINE FILE
ADMMR U FILE
GALBRAITH, F.W. & BRENNAN, MINERALS OF ARIZ.
AZBM BULL. 181, P. 32, 1970
CLAIMS EXTEND INTO SEC. 6 T8S-R30E

APACHE MINE

GRAHAM COUNTY
T8S R30E Sec 6
T7S R30E Sec 30

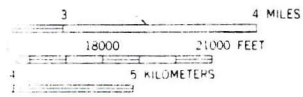
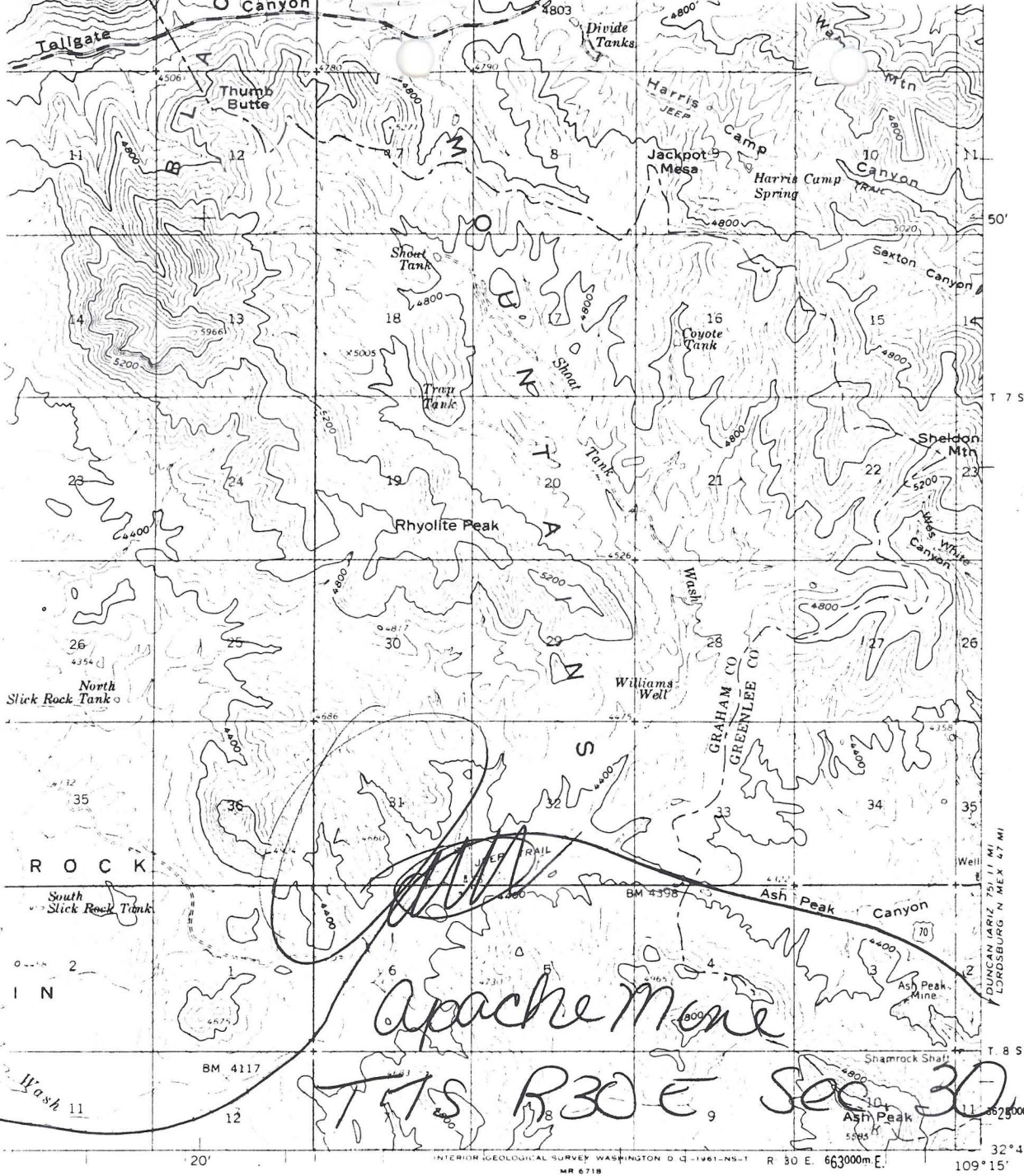
AKA: Apache Tin, Sam Jenson Lease

RI 6828 P. 57

ABM Bull. 181, 1970, p.32

Graham County MILS Index #86

Guthrie, AZ 15' Topo (included in file)



QUADRANGLE LOCATION

ROAD CLASSIFICATION

Heavy-duty		Light-duty	
Medium-duty		Unimproved dirt	
		U. S. Route	

ARDS
WASHINGTON 25, D. C.
IF ON REQUEST

GUTHRIE, ARIZ.
N3245-W10915/15
1960

9
GM

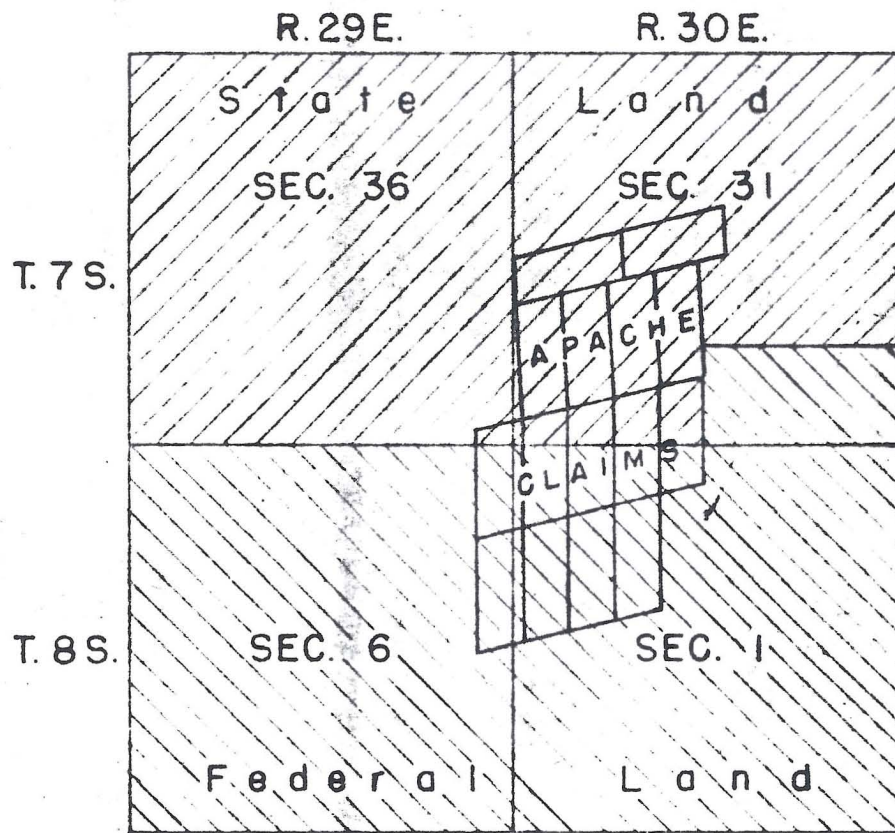
ARIZONA DEPARTMENT OF MINES AND MINERAL RESOURCES

INFORMATION FROM MINE CARDS IN MUSEUM

USA, ARIZONA, GRAHAM CO.
Ash peak mining District
Klondyke landmark
Apache Tin claim

MM M 058 Cassiterite

2-AKA - MILS # 86
Apache mine (file)
2-AKA 2



Sketch showing vested mineral rights
of Apache Tin area.

617-17-8

Mr. Sumner:

I wrote you some 3 or 4 weeks ago regarding some tin ore. You requested a sample. Mr. Sam Jensen, owner of these claims, sent a 22# sample over 2 weeks ago. He hasn't had any word from the Dept., on this and of course is anxious to find out something. Would you please advise, we mailed this to the Dept. of Mineral Resources. Thanks a lot, Albert J. 902-10th ave. Safford, Ariz.

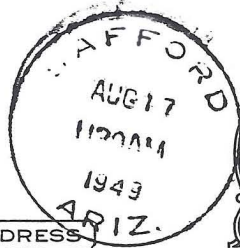
7-15-49

Dear Roger:

There has been

what the discoverer believed, something of an important tin ore find. He has asked me to find out where some of the department engineers will be over this way. If you do come over, please drop in the plant, I have some of the specimens here.

Also can you advise me when to get some more likely indices etc., to put at the mine? Thank you very much and best of every thing to you. Give my regards to your family.
Albert J. Safford



THIS SIDE OF CARD IS FOR ADDRESS

Chas. Dunning
Director Dept. Mineral Resources
Mineral Bldg. Fair Grounds
Phoenix, Arizona

Chas. Dunning, Director
Dept. Mineral Resources
Mineral Bldg., Fair Grounds,
Phoenix, Arizona

THIS SIDE OF CARD IS FOR ADDRESS



Sam Jensen
Tafford Ariz.
Rt #1, Box 201



Mr J. H. Hedges, chief Mining Division
Southwest West Experiment Station
Box 4097, University Station
Tucson, Arizona

SELL AND INSTALL STAND, PLUMBING FITURES

Safford, Arizona, 194.....

M.....

IN ACCOUNT WITH

SAM JENSEN

PLUMBING CONTRACTOR

124 East 20th Street - Telephone 379-J2

TERMS NET CASH

Dear Mr Hedges,

I think I am enclosing the information you asked for.

Meanwhile we are taking out ore by blasting and trenching. Would appreciate your help in getting a geologist or engineer to inspect property as soon as possible.

I thank you

Sam Jensen

6003

XXXXXXXXXXXX
XXXXXXXXXXXX

March 4, 1949

LAS:IB

Mr. Sam Jenson,
Route 1, Box 201,
Safford, Arizona.

Dear Mr. Jenson:

One of our engineers, Lincoln A. Stewart, will be in Safford Wednesday evening, March 9. He will then phone you and arrange to meet you for an inspection of your Apache claims on the following day.

If this time is not agreeable to you please advise us before next Wednesday.

Very truly yours,

CC Files Chron Moon

J. H. HEDGES, Chief,
Tucson Branch, Mining Division.

March 3, 1950

U. S. Bureau of Land Management
Public Survey Office
U. S. Court House
Phoenix, Arizona

Gentlemen:

Please send us one township plat of each of the following:

T 7 S, R 29 E

T 7 S, R 30 E

T 8 S, R 29 E

T 8 S, R 30 E

Gila and Salt River Meridian.

Also one plat of Mineral Survey No. 4059, Old Reliable group
in Sec. 10, T 8 S, R 18 E, Pinal County.

Send certified invoice as usual.

Very truly yours,

Walter R. Storms, Acting Supervising
Engineer, Tucson Field Office
Mining Division, Region IV

601-2
1950
~~461.2~~
ET
DF

February 24, 1950

Mr. Sam Jensen
Rt. 1, Box 201
Safford, Arizona

My dear Mr. Jensen:

Our engineer, Mr. Stewart, will be in Safford next Monday evening, February 27, and expects to look at your Apache tin claims the following day.

He knows your street address and phone number and will contact you. It may be that you will be able to go to the property with him.

Sincerely yours,

Walter R. Storms, Acting Supervising
Engineer, Tucson Field Office
Mining Division, Region IV

CC 6003 ✓
DF

LStewart, frj

March 13, 1950

Mr. Sam Jensen
Rt #1 Box 201
Safford, Arizona

My dear Mr. Jensen:

Enclosed find a copy of the claim map drawn from field data secured during my recent examination. Note that the half section measurements to the south and to the east of the township corner vary from true $\frac{1}{2}$ -mile measurement. This is due to the fact that surveying errors are thrown into the west and north tier of sections in each township. These figures were secured from the General Land Office plats.

Also enclosed is a sketch showing ownership of vested mineral rights. Note that the $S\frac{1}{2}$ of $SW\frac{1}{4}$ of section 31 is Federal land with the remainder of the section owned by the State.

There is an interesting article in the January 1948 issue of Engineering and Mining Journal on the occurrence of tin in rhyolite in Mexico. You might be able to read it in some library!

The piece of sample enclosed is part of a larger piece, the "bubbles" of which you thought might be cassiterite. Microscopic examination shows that it is not tin, but mainly glassy silica.

Sincerely yours,

Lincoln A. Stewart, Mining Engineer
Tucson Field Office, Mining
Division, Region IV

CC 6003
DF-

LASTewart:frj

ARIZONA DEPARTMENT OF MINERAL RESOURCES
Mineral Building, Fairgrounds
Phoenix, Arizona

1. Information from: mine visit (no one present)
Address: _____
2. Mine: APACHE TIN 3. No. of Claims - Patented _____
(Graham Co. - Guthrie 15' Quad.) Unpatented _____
4. Location: approximately 20 miles east of Safford, just north of Highway 70.
5. Sec 31 Tp 7S Range 30E 6. Mining District _____
7. Owner: _____
8. Address: _____
9. Operating Co.: _____
10. Address: _____
11. President: _____ 12. Gen. Mgr.: _____
13. Principal Metals: _____ 14. No. Employed: _____
15. Mill, Type & Capacity: _____
16. Present Operations: (a) Down (b) Assessment work (c) Exploration
(d) Production (e) Rate _____ tpd.
17. New Work Planned: _____

18. Misc. Notes: Mine plant is on west side of dry wash that is tributary to Shoat Tank Wash. The plant is about 200 yards north of Highway 70.
The wash has been bulldozed and a large mound of material has been built next to a hopper under construction. There is a large trommel, about 40 feet long, that has two new spiral classifiers(?) mounted near the discharge, on either side. Other equipment includes mobile conveyors, crane, D-6, D-8, generator and large metal shed. Farther up a dirt road is a camper and a diesel tanker.
Sign on road gate says: Not Hiring-Send resume to Box X, Duncan, AZ 85534.

Date: November 1, 1984

Michael N. Greeley
(Signature) (Field Engineer)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF MINES

Report Nos. _____

REVIEW OF EXAMINATION REPORT

State Arizona County Graham Mineral products Tin

Name of property Apache Tin Claims

Owner Sam Jensen Address Safford, Ariz.
J. D. Lee Gila, N. Mex.

Lessee or Operator None Address --

Location Sec. 31, T. 7 S., R. 30 E., and sec. 6, T. 8 S., R. 30 E.

Examined by John H. Soule Date May 4, 1959

Apparent quality of examination and report Adequate

Discussion and review:

The Apache tin claims are in an extensive area of volcanic rocks; many square miles in extent. In the tin-bearing areas the volcanics are altered rhyolite and the tin occurs in veinlets of mixed cassiterite and specularite. A general sample of the tin-bearing rhyolite contained less than 0.005 percent BeO. The examining engineer concludes that the beryllium content of the rock is insignificant. No further consideration by the Bureau is recommended.

DATE	ACTION	BY

Reviewed by C. M. Harrer
C. M. Harrer
Date June 26, 1959

June 25, 1959

Memorandum

To: Robert W. Geehan, Chief, Division of Mineral Resources

From: John H. Soule

Subject: Apache Tin Claims, Graham County, Ariz. - Summary Report of Minerals Examination

The Apache tin claims were visited on May 4, 1959 under Authorization 3497, Research on Rare and Precious Metals. This property was visited in passing because of the known presence of high temperature minerals (cassiterite) and to obtain a sample to test for the presence or absence of beryllium minerals. Previous examinations of the property were made in 1949 and 1950, L. A. Stewart-23 and in 1953, Soule - 64.

These claims are in sec. 31, T. 7 S., R. 30 E. and sec. 6, T. 8 S., R. 30 E., Graham County, Ariz. The area may be reached from Safford, Ariz. by taking U. S. Highway 70 easterly towards Duncan, Ariz. for about 25 miles to milepost 364. Continue easterly for 0.2 miles thence left or northerly through a wire gate to the old paved highway thence right a short distance to a cattle tank. The workings may be seen on the hill to the northeast.

The area is in an enormous series of volcanic rocks that cover many square miles and probably are related to the volcanics of the New Mexico tin area some 100 airline miles to the northeast. In the tin areas, the volcanics are rhyolites, somewhat altered, and the tin occurs as veinlets of cassiterite intimately mixed with specularite.

One general sample of the Apache tin area contained less than 0.005% BeO and any reserves of beryllium bearing minerals is considered insignificant.

John H. Soule
John H. Soule
Mining Engineer

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF MINES

SUMMARY REPORT OF MINERALS EXAMINATION

State Arizona County Graham Mineral Products Tin

Name of property or deposit Apache Tin claims

Date examined 5/4/59 Engineer John H. Soule Date of this report 6/23/59

Reason for examination Auth. 3497, Research on Rare and Precious Metals

Engineer accompanied by alone Address _____

Extent of property 15 unpatented claims (1950)

Owner Sam Jensen Address Safford, Ariz.
J. D. Lee Address Gila, N. Mex.

Leased or optioned to none Address _____

Location of property (be specific) Sec. 31, T. 7 S., R. 30 E., and sec. 6, T. 8 S., R. 30 E. Graham County, Ariz.

Type of deposit and mineralogy (brief description) Intermixed cassiterite and specularite in altered rhyolite

Known dimensions of the deposit very limited
Length _____ Width _____ Depth _____

Attitude of the deposit (strike, dip, etc.) Steeply dipping veinlets with general northerly strike

Possible extensions; correlation of known showings Other possible areas containing tin minerals.

Mine workings (brief description or attach map or sketch) (indicate whether accessible) Shallow pit, mostly accessible

(March 1949) Mining Division
Date Rec'd

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF MINES

FEB 2 - 1953

Soule' No. 64

W.H.K.

BUREAU OF MINES
Denver, Colorado

MINING DIVISION
SUMMARY REPORT OF MINERALS EXAMINATION

State Arizona County Graham Mineral Products Tin

Name of property or deposit Apache Tin Claims

Date examined Jan. 19, 1953 Engineer John H. Soule' Date of this report Jan. 24, 1953

Engineer accompanied by None Address

Extent of property 15 unpatented claims

Owner (1950) S. Jensen J. D. Lee Address Safford, Arizona Gila, New Mexico

Leased or optioned to None Address

Location of property (be specific) Sec. 31, T. 7 S., Sec. 6, T. 8 S., both R. 30 E.
in eastern Graham County, Arizona

Type of deposit and mineralogy (brief description) Cassiterite with specularite in
veinlets in rhyolite. Similar to the tin deposits in Sierra and Catron Counties, New
Mexico. A small amount of placer.

Known dimensions of the deposit Very limited lateral and vertical extent.
Length Width Depth

Attitude of the deposit (strike, dip, etc.) Veinlets dip fairly steeply with general
northerly strike.

Possible extensions; correlation of known showings Placer and float in west wash
can be roughly correlated with veinlets. Placer in east wash from unlocated lode
source.

Mine workings (brief description or attach map or sketch) (indicate whether accessible).....
A number of shallow pits and shafts, most of which are accessible.

CC: W.H.King
DF

(over)

January 29, 1953

Letter to accompany Summary Report of Minerals Examination of the Apache tin claims, Graham County, Arizona. - Soule' No. 64.

The Apache tin claims were visited on January 19, 1953 by John H. Soule' who was in the general area on another examination. It was desired to compare these deposits with those of Sierra and Catron Counties, New Mexico. The Apache deposits were examined in some detail by L. A. Stewart of the Bureau of Mines early in 1950 and his report is on file.

The Apache tin claims are of relatively recent discovery and a small amount of exploratory work was done. The claims, 15 in number, are unpatented and are largely located in the SW $\frac{1}{4}$ Sec. 31, T. 7 S., R. 30 E. and NW $\frac{1}{4}$ Sec. 6, T. 8 S., R. 30 E. with a little overlap to adjoining sections to the west.

The claims are easily accessible. Travel easterly on U. S. Highway 70 for 25.4 miles from the center of Safford, Ariz. to milepost 364 on the south side of the road. Just 0.3 and about 1 mile northeast of the milepost are two large washes. These contain the placer tin and the known lode deposits lie between the washes, closer to the west wash and about $\frac{1}{4}$ mile northwest of the highway. The workings can be readily seen from the highway and the west wash. The placers in the washes occur northwest of the road. Wire gates in the fence permit access into the tin area.

The geologic setting for the Apache tin deposits are similar to the New Mexico deposits. The host rock is rhyolite and the tin occurs in small veinlets intimately intermixed with specularite. These veinlets have little lateral and vertical extent. Their distribution, from present knowledge, is on a much smaller scale than the New Mexico deposits. The placers in the west wash may be correlated with the known lode deposits while the lode source of the placers in the east wash has not been found.

Stewart concluded from his examination that no work by the Bureau of Mines was warranted. This conclusion is in agreement with the conclusion derived from this recent examination.

John H. Soule', Mining Engineer

CC: W. H. King
DF

JHSoule':als

University of Arizona

TUCSON

DEPT. OF MINES
ARIZONA BUREAU OF MINES

April 6, 1950

W.R.S.

Mr. W. R. Storms
U. S. Bureau of Mines
Campus

Dear Mr. Storms:

This will acknowledge and thank you for your letter of April 3 and the report attached thereto on the investigation of the Apache tin deposit near Safford. We are very glad to have this information for our files and will consider the contents confidential.

Yours sincerely,



T. G. Chapman
Director
Arizona Bureau of Mines

U. S. BUREAU OF MINES

APR 9 1950

U. S. BUREAU OF MINES

U. S. BUREAU OF MINES

APR 9 1950

U. S. BUREAU OF MINES

MINERAL PROPERTY FILE

COUNTY Graham STATE Arizona Present file No. AZ 463.2/6003
New file No. 72.1

TWP 7S RANGE 30E SECS. 31
8S 6 Main Commodity Tin
Others _____

PROPERTY NAME Apache Tin Claims

OTHER NAMES _____

OWNER Sam Jensen ADDRESS Safford, Ariz.
J. D. Lee Gila, N. Mex.

LESSEE _____ ADDRESS _____

LOCATION East on U. S. 70 towards Duncan, Ariz. about 25 mi to milepost 364, continue 0.2 mi. then left through a wire gate to the old paved highway, then right to a cattle tank. The workings may be seen on the hill to the northeast.

ACCESS _____

TYPE OF DEPOSIT:

Disseminated _____ Bedded X Contact _____ Placer _____
Vein _____ Lenses or pods _____ Residual _____ Other _____

WORKINGS:

Underground _____ ACCESSIBLE: Yes X No _____ Unknown _____

Drift, X-cut _____ Shaft _____

Total Length: Less than 200' _____ 200' to 1,000' _____ More than 1,000 _____

Surface X

Open pit X Small _____ Large _____ Trenches _____ Test pits _____

Drill holes _____

Undeveloped _____

PLUS 500 TON PRODUCTION: Yes _____ No _____ Unknown X

DATE OF INFORMATION Jun, 23, 1959

TYPE OF REPORT:

Standard Examination _____ DMEA or OME _____ WMR _____ Correspondence _____
Summary Report X Access Road _____ MRB _____ Other _____
Map _____ Non Bureau _____

FURTHER WORK RECOMMENDED _____ NOT RECOMMENDED X

15-50
April 3, 1950

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

My dear Dr. Chapman:

Sometime ago we were discussing tin deposits in Arizona and at that time I told you that our Mr. L. A. Stewart planned to thoroughly investigate the Apache tin deposit near Safford. As we thought you might be interested we are enclosing a copy of Stewart's report for your confidential files.

Permission to give you this report has been made by Mr. Paul T. Allsman, chief of the Mining Division of this region. We hope the report will be of some use to you but ask that it not be published or quoted.

Sincerely yours,

Walter R. Storms, Acting Supervising
Engineer, Tucson Field Office
Mining Division, Region IV

P. T. Allsman
CC 6003
DF

WRStorms:frj

Mining Division
Region IV

March 30, 1950

Memorandum

To: Mr. J. H. Hedges
From: Chief, Mining Division, Region IV
Subject: Supplemental examination report on Apache tin deposit,
Graham County, Arizona, by L. A. Stewart.

Herewith are four copies of the above report for your files. Permission has been given for Storms to release a copy to Dr. Chapman. Since publication is not contemplated, no editing has been done.

Paul T. Allsman

Enclosures

Gen. File
Chron. File



UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF MINES

Mining Division
Region IV

224 NEW CUSTOMHOUSE
DENVER 2, COLORADO

March 30, 1950

WTS

Memorandum

To: W. R. Storms, Tucson, Arizona

From: Chief, Mining Division, Region IV

Subject: Supplemental examination report on Apache tin deposit,
Graham County, Arizona, by L. A. Stewart,

There is no apparent reason that Dr. Chapman should not have a copy of the report. It should not be used for publication or quotation without being further considered and cleared by the Bureau of Mines.

Paul T. Allsman

Copy to: JH Hedges

Copy sent to Chapman 4-3-50 WTS

U. S. DEPARTMENT OF THE INTERIOR

APR 3 1950

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF MINES

SOUTHWEST EXPERIMENT STATION
Box 4097
UNIVERSITY STATION

Mining Division
Date Rec'd

TUCSON, ARIZONA

March 14, 1950

MAR 16 1950

Memorandum

BUREAU OF MINES

To : Paul T. Allsman, Denver, Colorado
From : Walter R. Storms, Tucson, Arizona
Subject : Supplemental Examination Report on Apache Tin Deposit,
Graham County, Arizona, by L. A. Stewart.

Enclosed are original and four copies of the above report.

Because of inquiries from Dr. Chapman of the Arizona Bureau of Mines, Stewart made a thorough examination of this property although indications did not show much tin mineralization.

We would like to have your permission to give a copy of this report to Dr. Chapman (not including confidential section, of course).

Walter R. Storms

Walter R. Storms

CS 6095
DF

T Met-6

UNITED STATES DEPARTMENT OF THE INTERIOR
BUREAU OF MINES
Tucson Division Metallurgical Branch

SAMPLE REPORT

Date March 24, 1949

To: J. Bruce Clemmer
Metallurgical Division
Tucson, Arizona

From: Lincoln A. Stewart
Mining Division
Tucson, Arizona

Name and Location of Property or Project:

Apache tin claims near Duncan

Number of Samples in Shipment: 1 in 2 bags. Total Weight 50 lbs.

Shipped _____; GBL No. _____ Carrier by hand

Nature of Ore and general comments:

Oxides of iron and tin in rhyolite

Identification of Samples with tests or analyses desired:

Sample No. 4446

Head assay Sn and Fe

Make gravity concentration

Concentrate assay Sn and Fe

Please save concentrate

6-308
(March 1947)

UNITED STATES DEPARTMENT OF THE INTERIOR
BUREAU OF MINES
Apache Claims, near Duncan

No. _____

Report to Mr. Lincoln A. Stewart

Chemical Laboratory Report

Date received 3-11-49

Date reported 3-18-49

Serial No.	DESCRIPTION	Lot No.	%	%										
			Sn	Fe										
	Sample No. 4445		2.95	24.0										
	JHHedges cc: 533.1													

DF

Signed _____
 J.B. Clemmer

T Met-6

UNITED STATES DEPARTMENT OF THE INTERIOR
BUREAU OF MINES
Tucson Division Metallurgical Branch

SAMPLE REPORT

Date MARCH 11, 1969

To: J. BRUCE CLEMMER
Metallurgical Division
Tucson, Ariz.

From: LINCOLN A. STEWART
Mining Division
Tucson, Ariz.

Name and Location of Property or Project:

Apache claims, near Duncan

Number of Samples in Shipment: 1 in 1 bags. Total Weight _____

Shipped _____; GBL No. _____ Carrier Hand

Nature of Ore and general comments:

Oxides in rhyolite

Identification of Samples with tests or analyses desired:

Sample No. 4445

Run for Sn and Fe

The main prospect pit was sunk on the west slope of the hill at a point where two narrow veins cropped out about two feet apart. The pit is about 25 feet long, averaging 10 feet deep; one end is said to be 18 feet deep but muck from the last round of shots ~~and~~ had not been cleaned out. The two veins (stringers would be a better term) diverge downward and westward. The hanging wall of the cut follows the stringer that strikes N 20° W dipping 60° N, and the other side of the cut is determined by the second stringer striking N 35° W, dipping 80° N. Where exposed in the sides and bottom of the cut, neither stringer is more than 3 or 4 inches wide, containing extremely weak mineralization.

There is a pile of ore estimated at 15 tons that was sorted from the mining operation. Mr. Jensen told me that most of it came from the first 4 feet of depth. The gangue in the ore, as well as the adjacent rocks, is spherulitic rhyolite of a light red-brown color. No attempt has thus far been made to trace extension of the veins under the soil cover. However, no mineralization is exposed in low cliffs crossing the course of the veins at some 50 feet westerly.

Another cut about 75 feet further up the hill is in fine-grained, white, scoraceous rhyolite. On the dump, a small pile of mineralized material was segregated, that must have come from a pocket, as there is no indication of a stringer anywhere in the cut.

The mineralization consists of heavy black oxides, hematite and cassiterite, with a little magnetite. On weathered surfaces a botryoidal or reniform structure is evident, and on a sawed surface, the nodules show the concentric rings common to wood-tin.

A $1\frac{1}{2}$ -pound character specimen, rhyolite gangue containing a $\frac{1}{2}$ -inch stringer of black oxides, assayed 2.95 percent tin and 24.0 percent iron.

Down slope from the two cuts can be found float from these or similar veins. Owing to the general red-brown color of most of the rocks in this area, the float material is not readily discernible. Jensen and his partner have made small piles of the mineralized rock, and I found additional pieces.

It is my impression that this float did not all come from the stringer exposed at the cut. Very likely there are other undiscovered stringers along the hillside.

Mr. Jensen has not yet done any bedrock prospecting above the cuts toward the crest, or on the east side of the hill. Time did not permit examination of this additional area, but Jensen stated that small nuggets of cassiterite were to be found in the washes that outlined the hill, but that more were to be found in the wash draining the east side of the hill than elsewhere.

We walked around the wash to the north of the hill and over a saddle to the wash east of the hill. cursory examination of the gravel in the wash to the north failed to show any cassiterite pebbles, but a minute stringer of the same mineralization as that in the cuts was noted. By scratching into pot holes and

riffles in the east wash the two of us found more than a hundred water-worn pebbles of wood-tin varying in size from a match head to one-half inch in diameter. Jensen said he had not found any tin pebbles in the drainage from the area further east, which, if true, would indicate that the origin of the cassiterite was from veins on the east, unprospected side of the hill covered by the Apache claims.

In all probability this tin deposit is similar in character to those of the Black Range, Catron and Sierra Counties, New Mex., which are about 80 miles north-east, where it was found that the stringers were too small to be mined separately, and were too scattered to be mined by bulk methods. (See Report of Investigations No. 4068, Catron and Sierra Counties Tin Deposits, N. Mex., and Tin Deposits of the Black Range, Catron and Sierra Counties, N. Mex., U. S. Geological Survey Bull. 922-M).

However, in view of the fact that our national economy is so deficient in tin, I believe a little more time should be spent in the examination of this area. The hillsides, particularly on the east side, should be searched for mineralized float. Any relative abundance of float at least would indicate the general areal position of parent veins or stringers, even if outcrops could not be found.

It is suggested that (1) One or two days be spent in the field as above outlined; (2) That a concentrate product be made from a 50- or 100-pound sample of the mineralized rock. If it does not entail too much work, a preliminary beneficiation test might be run on the concentrate to determine whether further separation of the iron content is possible or feasible.

I expect to polish an ore specimen and see if I can determine the microscopic relationship of the hematite and cassiterite.

If further investigation shows any quantity of lode float, and the area from which it is derived can be roughly delineated, a small trenching program might be considered to determine the size and situation of the veins. A light bulldozer could be used to strip the surface mantle across the area and final cleaning to bedrock done by hand work. The possibility of placer operations can be dismissed from consideration because of the small volume of gravel in the adjacent washes.

LINCOLN A. STEWART

MINERAL PROPERTY FILE

COUNTY Graham STATE Arizona Present file No. AZ 463.2/6003
 New file No. 72.1

TWP 7S RANGE 30E SECS. 31
8S 6 Main Commodity Tin
 Others _____

PROPERTY NAME Apache Tin Claims

OTHER NAMES _____

OWNER Sam Jensen ADDRESS Safford, Ariz.
J. D. Lee ADDRESS Gila, N. Mex.

LESSEE _____ ADDRESS _____

LOCATION East on U. S. 70 towards Duncan, Ariz. about 25 mi to milepost 364, continue 0.2 mi. then left through a wire gate to the old paved highway, then right to a cattle tank. The workings may be seen on the hill to the northeast.

ACCESS _____

TYPE OF DEPOSIT:

Disseminated _____ Bedded X Contact _____ Placer _____
 Vein _____ Lenses or pods _____ Residual _____ Other _____

WORKINGS:

Underground _____ ACCESSIBLE: Yes X No _____ Unknown _____

Drift, X-cut _____ Shaft _____

Total Length: Less than 200' _____ 200' to 1,000' _____ More than 1,000 _____

Surface X

Open pit X Small _____ Large _____ Trenches _____ Test pits _____

Drill holes _____

Undeveloped _____

PLUS 500 TON PRODUCTION: Yes _____ No _____ Unknown X

DATE OF INFORMATION Jun, 23, 1959

TYPE OF REPORT:

Standard Examination _____ DMEA or OME _____ WMR _____ Correspondence _____
 Summary Report X Access Road _____ MRB _____ Other _____
 Map _____ Non Bureau _____

FURTHER WORK RECOMMENDED _____ NOT RECOMMENDED X



UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF MINES

Mining Division
Region IV

224 NEW CUSTOMHOUSE
DENVER 2, COLORADO

March 30, 1950

WTS

Memorandum

To: W. R. Storms, Tucson, Arizona
From: Chief, Mining Division, Region IV
Subject: Supplemental examination report on Apache tin deposit,
Graham County, Arizona, by L. A. Stewart.

There is no apparent reason that Dr. Chapman should not have a copy of the report. It should not be used for publication or quotation without being further considered and cleared by the Bureau of Mines.

Paul T. Allsman

Copy to: JH Hedges

*Copy sent to Chapman 4-3-50
WTS*

U. S. BUREAU OF MINES

APR 3 1950

CUSTOMER SERVICE DIVISION

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF MINES

SOUTHWEST EXPERIMENT STATION
Box 4097
UNIVERSITY STATION

Mining Division
Date Rec'd

TUCSON, ARIZONA

March 14, 1950

MAR 16 1950

Memorandum

BUREAU OF MINES

To : Paul T. Allsman, Denver, Colorado, ~~Denver, Colorado~~

From : Walter R. Storms, Tucson, Arizona

Subject : Supplemental Examination Report on Apache Tin Deposit,
Graham County, Arizona, by L. A. Stewart.

Enclosed are original and four copies of the above report. Because of inquiries from Dr. Chapman of the Arizona Bureau of Mines, Stewart made a thorough examination of this property although indications did not show much tin mineralization.

We would like to have your permission to give a copy of this report to Dr. Chapman (not including confidential section, of course).

Walter R. Storms

Walter R. Storms

CC 6003
DF



OFFICE OF
State Land Department
STATE OF ARIZONA
Phoenix, Arizona

W. W. LANE
STATE LAND COMMISSIONER

March 7, 1950

United States Department of the Interior,
Bureau of Mines,
Southwest Experiment Station,
Box 4097,
University Station,
Tucson, Arizona.

Attention: Mr. Lincoln A. Stewart.

Dear Sir:

We have your letter of March 6, 1950, in which you request information regarding the vested mineral rights in the State of the following sections:

Section 36	T.7S	R.29E
Section 31	T.7S	R.30E
Section 1	T.8S	R.29E
Section 6	T.8S	R.30E.

This is to advise you that the mineral rights on Section 36, T.7S., R.29E., and Lots 1, 2, 3, 4; E $\frac{1}{2}$ NW $\frac{1}{4}$; NE $\frac{1}{4}$ SW $\frac{1}{4}$; NE $\frac{1}{4}$; SE $\frac{1}{4}$ SW $\frac{1}{4}$; N $\frac{1}{2}$ SE $\frac{1}{4}$; Section 31, T.7S., R.30E, are vested in the State of Arizona.

Very truly yours,

W. W. Lane,
State Land Commissioner.

WWL/ged

U. S. BUREAU OF MINES

MAR 9 1950

TUCSON, ARIZONA

File Separate File

MAR 7 1950

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF MINES

SOUTHWEST EXPERIMENT STATION
Box 4097
UNIVERSITY STATION

TUCSON, ARIZONA
March 6, 1950

U. S. Bureau of Land Management
Public Survey Office
U. S. Court House
Phoenix, Arizona

*WRS
LWS*

Gentlemen:

Please advise us which of the following sections have
the mineral rights vested in the State:

Sec. 36, T. 7 S., R. 29 E.; Sec. 31, T. 7 S., R. 30 E.

Sec. 1, T. 8 S., R. 29 E.; Sec. 6, T. 8 S., R. 30 E.

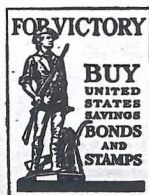
Very truly yours,

Lincoln A. Stewart

Lincoln A. Stewart for
Walter R. Storms, Acting Supervising
Engineer, Tucson Field Office
Mining Division, Region IV

3-7-50, Memo: Sec. 36, T. 7 S., R. 29 E. - mineral rights vested in State
Sec. 31, T. 7 S., R. 30 E. - mineral rights vested in State
on $N\frac{1}{2}$, $SW\frac{1}{4}$, $N\frac{1}{2}SE\frac{1}{4}$. Minerals in $S\frac{1}{2}SE\frac{1}{4}$ vested in U. S.
Sec. 1, T. 8 S., R. 29 E. - Minerals in U. S.
Sec. 6, T. 8 S., R. 30 E. - Minerals in U. S.

gud



U. S. BUREAU OF MINES

MAR 8 1950

TUCSON, ARIZONA

Safford Ariz
May 4, 1949

U S Dept of Interior
Bureau of Mines
Tucson Arizona.

Dear Sirs;

About two months ago your engineer, Mr Stewart was over here and spent a day at the location of our tin deposit. He took with him samples of the ore which he said he would test and send us a report on his findings.

As to date have not heard further from Mr Stewart. Would like to hear from you as to what has been done about it

I remain sincerely

Sam Jensen

RT#1, Box 201

Safford Ariz.

Ad

L. Howard Milligan
1020 Princeton St
Nov. 27, 1930
Albuquerque, N.M.

Mr. Lincoln A. Stewart
U.S. Bureau of Mines
Box 4097
Tucson, Arizona

Dear Linc:

The reason I haven't dropped into see you is due to the fact that I never have gotten down there. My clients dropped their deal on the Whipsaw group of claims. However, I did put together an option deal on Bedford's helvite claims on the Hixson-Victoria District which gave me a chance to get in there and do some magnetometer work. I was hoping that I might pick up a buried magnetite deposit with or without Be/Cu, but no luck.

I have purchased a magnetometer mainly for use on the iron and magnetite deposits and the taconite deposits near Tres Piedras which belong to my clients. If you know of any one desiring my work on a contract basis will be glad to oblige. Have heard that there were some Bur. of Mines men in the state during the summer collecting data on the iron deposits, never met them but understand they saw Dudley Cornell, my client, who has all the major iron deposits under control.

*B. M. Howard
Tucson N*

Linc, I remember your talking me about your field exam of a tin deposit near Ash Peak, Ariz. in the vicinity of Lorenz or that part of the state. You even had some nuggets of stream tin. As far as I know knowledge of this deposit has not been written up officially. Could you inform me of the location -Twp-3-Jac? and directions to get there? The tin, per se, does not interest me for its association that I am after. Will let you in on my thinking if I can build a deal.

It's been a rather slow stinky year for money but with part ownership of the taconite deposits at Exor Tres Piedras and some other intangibles I feel that I have made some progress. Been hoping too that some of my work would take me to Tucson with the pleasure of seeing you again. Until then,

Sincerely,

U. S. BUREAU OF MINES
SOUTHWEST EXPERIMENT STATION
NOV 28 1930
TUCSON, ARIZONA

UNITED STATES
 DEPARTMENT OF THE INTERIOR
 BUREAU OF MINES

Report Nos. _____

REVIEW OF EXAMINATION REPORT

State Arizona County Graham Mineral products Tin

Name of property Apache Tin Claims

Owner Sam Jensen Address Safford, Ariz.
J. D. Lee Gila, N. Mex.

Lessee or Operator None Address --

Location Sec. 31, T. 7 S., R. 30 E., and sec. 6, T. 8 S., R. 30 E.

Examined by John H. Soule Date May 4, 1959

Apparent quality of examination and report Adequate

Discussion and review:

The Apache tin claims are in an extensive area of volcanic rocks; many square miles in extent. In the tin-bearing areas the volcanics are altered rhyolite and the tin occurs in veinlets of mixed cassiterite and specularite. A general sample of the tin-bearing rhyolite contained less than 0.005 percent BeO. The examining engineer concludes that the beryllium content of the rock is insignificant. No further consideration by the Bureau is recommended.

DATE	ACTION	BY

Reviewed by C. M. Harrer
 Date June 26, 1959

APACHE MINE

GRAHAM COUNTY

NJN WR 2/8/85: Bob Langguth (c) reported that the Silver Barron News-center promoted Minco which ran the tin placer mining operation at the Apache (f) Graham County. Minco joint ventured the operation with Gold and Mineral Co. They consist of Chuck Mottley of Mottley Industries formerly known as Weaver Mining. This was how Jim Jones also formerly of Weaver Mining became involved. The operation was on the Tap #1-4 Claims owned by Henry "Hank" Childs, 127 Tam-O-Shanter, Phoenix, Az. 85022. A concentrate was produced but reportedly contained no tin.

RRB WR 3/1/85: It was reported that Weaver Mining Inc. (Chuck Motley and Sandra Ghost) is bankrupt but has removed the equipment from the property north of Wickenburg, which should belong to the bankruptcy court, to a tin property near Douglas. They are now operating under the name of Golden Sierra Mining & Exploration Co., (c). It was also reported that they are involved in a joint venture with Minco, under the name of Gold & Minerals Co. Inc. at suite 134 of above address, on the Apache Tin cassiterite placer property near Duncan.

APACHE MINE

GRAHAM COUNTY

NJN WR 8/3/84: Paul Booth of Workman's Compensation Fund reported that Minerals Management has 1 supervisor and 3 men (a drill crew) working at the Apache Mine (f) Graham County.

MG WR 9/21/84: Learned that Mr. Henry Childs (c) is apparently moving back onto the Apache Tin Property (Graham Co) ... this time with larger equipment.

JHJ Memo for file 10/11/84: Mr. Grant Atkinson, 1332 W. First Place, Mesa Arizona 85021 was in the office to read the file on the Apache Tin Deposit. He stated had had recently worked for Weaver Mining. They have gone into bankruptcy. He said Weaver Mining has moved their equipment to the Apache Tin property and will be operating under a different name.

KAP WR 10/25/84: Talked briefly with Bill Wellendorf of MARS Associates Inc, 3644 E. McDowell Road, Phoenix, ARizona 267-8008. His firm is primarily involved with radar mapping and geologic interpretation of same in foreign countries. They had acted as a contact for Indium Corporation of America to find a local consyultant to visit the Apache Mine (f) Graham County occurrence. The indium content was anomalous, but not of sufficient level to justify further investigation.

KAP WR 10/25/84: Jan Schafer of OEPAd explained she was looking for information on Minco which might be some kind of an investment scheme for an operation at the A-pache Mine (file) Graham County. The operation is being referred to as the Tiox Tin Placers.

MG WR 11/16/84: Provided file information on the Apache Tin property (Graham County) to Mr. Jim Mott of the State Mine Inspector's office. He reports that the operator has not notified his office of the mine startup.

KAP WR 8/1/80: 544 N. Ocotillo, Apache Junction, Arizona 85220, reported he feels he has found a tin deposit in Arizona. Although he was quite secretive about its location, additional discussion would lead one to believe it is the Apache Tin Deposit east of Safford in Graham County. The deposit is well known and has historically been of little interest due to the limited economic distribution of tin mineralization. Fred Finell Jr. of the Bahamian Refining Corp, 9222 North 14th Avenue, Phoenix, Arizona 85021, phone 279-9702, reported to Mr. Scherer that the mineral analyses 12 lbs of tin per ton plus an unknown metal which needs further analysis.

MG WR 3/27/81: Visited Apache Tin claims in Graham County. There is no sign of recent activity on this property. I understand the two original locators are deceased and the claims apparently abandoned. The widow of one claimant, Mrs. San Jensen, lives in Safford at 124 E. 19th. Phone 428-2967.

NJN WR 5/11/84: Discussed an indium occurrence with William Wellendorf of Mars and Associates Inc., 3644 E. McDowell Road, Phoenix, Arizona 85008, ph: 267-8008. He was researching the geology in the Duncan area prior to visiting it later this week with a geologist from the Indium Corp of New York. Mars and Associates do photo geology and radar structural interpretations for oil clients internationally.

NJ N WR 5/18/84: William "Bill" Wallendorf provided a "follow-up" report on the indium occurrence in Graham County. The indium occurs in the mineral cassiterite in rhyolite flows. The occurrence is on claims located in Graham County (Apache Mine - file) T8S R30E Sec 6 held by Dewey Wilkins, P O Box 555, Suncan, Arizona 85534.

MG WR 8/3/84: Received report that someone attempted, during late July, to recover cassiterite in a dry wash on the old Apache Tin property in Graham County. It was an hydraulic operation combined with a jig. Apparently it was not successful. A Mr. Henry Childs was connected with the operation.

University of Arizona

TUCSON

GE OF MINES
NA BUREAU OF MINES

April 6, 1950

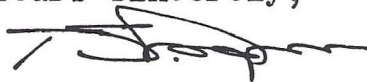
WRS

Mr. W. R. Storms
U. S. Bureau of Mines
Campus

Dear Mr. Storms:

This will acknowledge and thank you for your letter of April 3 and the report attached thereto on the investigation of the Apache tin deposit near Safford. We are very glad to have this information for our files and will consider the contents confidential.

Yours sincerely,



T. G. Chapman
Director
Arizona Bureau of Mines

U. S. BUREAU OF MINES

APR 7 1950

TUCSON, ARIZONA

U. S. BUREAU OF MINES

APR 7 1950

TUCSON, ARIZONA

June 25, 1959

Memorandum

To: Robert W. Geehan, Chief, Division of Mineral Resources

From: John H. Soule

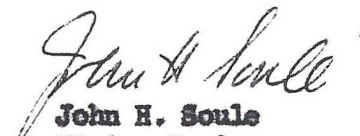
Subject: Apache Tin Claims, Graham County, Ariz. - Summary Report of Minerals Examination

The Apache tin claims were visited on May 4, 1959 under Authorization 3497, Research on Rare and Precious Metals. This property was visited in passing because of the known presence of high temperature minerals (cassiterite) and to obtain a sample to test for the presence or absence of beryllium minerals. Previous examinations of the property were made in 1949 and 1950, L. A. Stewart-23 and in 1953, Soule - 64.

These claims are in sec. 31, T. 7 S., R. 30 E. and sec. 6, T. 8 S., R. 30 E., Graham County, Ariz. The area may be reached from Safford, Ariz. by taking U. S. Highway 70 easterly towards Duncan, Ariz. for about 25 miles to milepost 364. Continue easterly for 0.2 miles thence left or northerly through a wire gate to the old paved highway thence right a short distance to a cattle tank. The workings may be seen on the hill to the northeast.

The area is in an enormous series of volcanic rocks that cover many square miles and probably are related to the volcanics of the New Mexico tin area some 100 airline miles to the northeast. In the tin areas, the volcanics are rhyolites, somewhat altered, and the tin occurs as veinlets of cassiterite intimately mixed with specularite.

One general sample of the Apache tin area contained less than 0.005% BeO and any reserves of beryllium bearing minerals is considered insignificant.


John H. Soule
Mining Engineer

July 6, 1939

Memorandum

To: Charles W. Merrill, Chief, Division of Minerals
Through: J. H. East, Jr.,
Regional Director, Reg. III

From: Robert W. Coohan, Chief, Division of Mineral Resources

Subject: Summary Reports of Examination and Review of Examination Reports

Enclosed are the original and one copy each of the Summary Reports of Examination and Review of Examination Reports prepared in connection with the examination of the following properties:

Queen Station Schist and Pegmatites, Pinal County, Ariz.
Little Bonnie Mine, Boulder County, Colo.
Black Magic Pegmatite, Yavapai County, Ariz.
Beryl No. 1 and 2 claims, Boulder County, Colo.
Beryl Lode claim, Boulder County, Colo.
Rusty Gold and Cerite claims, Boulder County, Colo.
✓ Apache Tin claims, Graham County, Ariz.
The Phosphite King or Jumbo Boy pegmatite, Yavapai County, Ariz.
Luko's Mist pegmatite area, Yavapai County, Ariz.

Robert W. Coohan

Enclosures

cc: J. H. East, Jr.
Sub
Chron
ASK:mv

Box 4097, Tucson, Arizona

November 29, 1960

**Mr. M. Howard Milligan
1010 Princeton SE
Albuquerque, N. M.**

Dear Howard:

Relative to the so-called Apache tin deposit about which you asked, attached is thermofax copy of location and road directions. Would be interested in knowing of your thinking in regard to mineral association in this area.

You mentioned two Bureau men who were collecting data on iron deposits in New Mexico. That would have been C. M. Herrer and Frank Kelly, both from the Denver office.

As I am pretty well tied close to the office, completion of the Barite of New Mexico report has been assigned to Paul Fille. As he will be in your area shortly, I have suggested that he contact you when in Albuquerque. Would appreciate it if you would be as helpful to him as you were to me.

Glad to hear from you any time.

Sincerely yours,

**Lincoln A. Stewart
Mining Engineer**

**CC R. W. Gechan
C. K. Rose
L. A. Stewart
P. V. Fille
463.2/6003 ✓
DF**

LAStewart:frj

4.5-50

April 3, 1950

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

My dear Dr. Chapman:

Sometime ago we were discussing tin deposits in Arizona and at that time I told you that our Mr. L. A. Stewart planned to thoroughly investigate the Apache tin deposit near Safford. As we thought you might be interested we are enclosing a copy of Stewart's report for your confidential files.

Permission to give you this report has been made by Mr. Paul T. Allsman, chief of the Mining Division of this region. We hope the report will be of some use to you but ask that it not be published or quoted.

Sincerely yours,

Walter R. Storms, Acting Supervising
Engineer, Tucson Field Office
Mining Division, Region IV

P. T. Allsman
CC 6003
DF

WRStorms:frj

Mining Division
Region IV

March 30, 1950

Memorandum

To: Mr. J. H. Hedges
From: Chief, Mining Division, Region IV
Subject: Supplemental examination report on Apache tin deposit,
Graham County, Arizona, by L. A. Stewart.

Herewith are four copies of the above report for your files. Permission has been given for Storms to release a copy to Dr. Chapman. Since publication is not contemplated, no editing has been done.

Paul T. Allsman

Enclosures

Gen. File
Chron. File

Mining Methods Branch
Mining Division, Region IV
Tucson, Ariz.

January 29, 1953

Letter to accompany Summary Report of Minerals Examination
of the Apache tin claims, Graham County, Arizona. - Soule' No. 64.

The Apache tin claims were visited on January 19, 1953 by John H. Soule' who was in the general area on another examination. It was desired to compare these deposits with those of Sierra and Catron Counties, New Mexico. The Apache deposits were examined in some detail by L. A. Stewart of the Bureau of Mines early in 1950 and his report is on file.

The Apache tin claims are of relatively recent discovery and a small amount of exploratory work was done. The claims, 15 in number, are unpatented and are largely located in the SW $\frac{1}{4}$ Sec. 31, T. 7 S., R. 30 E. and NW $\frac{1}{4}$ Sec. 6, T. 8 S., R. 30 E. with a little overlap to adjoining sections to the west.

The claims are easily accessible. Travel easterly on U. S. Highway 70 for 25.4 miles from the center of Safford, Ariz. to milepost 364 on the south side of the road. Just 0.3 and about 1 mile northeast of the milepost are two large washes. These contain the placer tin and the known lode deposits lie between the washes, closer to the west wash and about $\frac{1}{4}$ mile northwest of the highway. The workings can be readily seen from the highway and the west wash. The placers in the washes occur northwest of the road. Wire gates in the fence permit access into the tin area.

The geologic setting for the Apache tin deposits are similar to the New Mexico deposits. The host rock is rhyolite and the tin occurs in small veinlets intimately intermixed with specularite. These veinlets have little lateral and vertical extent. Their distribution, from present knowledge, is on a much smaller scale than the New Mexico deposits. The placers in the west wash may be correlated with the known lode deposits while the lode source of the placers in the east wash has not been found.

Stewart concluded from his examination that no work by the Bureau of Mines was warranted. This conclusion is in agreement with the conclusion derived from this recent examination.

John H. Soule', Mining Engineer

CC: W. H. King
DF

JHSoule':als

XXXXXXXXXXXX
XXXXXXXXXXXX

March 25, 1949
frj

MEMORANDUM FOR: LOWELL B. MOON, Washington, D. C.
FROM : LINCOLN A. STEWART, Tucson, Arizona.
SUBJECT : Summary report, Apache tin claims, Graham County, Ariz.

Attached are two copies of summary report and memorandum on the Apache tin claims of Graham County, Arizona.

LINCOLN A. STEWART

CC Mr. Hedges
6003
DF

November 2, 1948
JHh:frj

Mr. Sam Jensen,
Rt #1, Box 201,
Safford, Arizona.

Dear Mr. Jensen:

Your letter of October 30 with reference to a deposit of what you believe to be high-grade tin has been received.

The Bureau of Mines is interested in obtaining information regarding deposits of strategic and critical minerals. It will be appreciated if you will complete and return the enclosed "Statement of Facts" form which will assist you in furnishing the information we would like to have. The location of the property and the directions for reaching it should be given as clearly and explicitly as possible.

If the deposit appears to be of sufficient interest to justify further investigation by the Bureau of Mines, it will be listed for examination when we have an engineer available.

Very truly yours,

J. H. HEDGES, Chief
Tucson Branch, Mining Division

CC Mr. Moon
550 ✓
DF

March 3, 1950

U. S. Bureau of Land Management
Public Survey Office
U. S. Court House
Phoenix, Arizona

Gentlemen:

Please send us one township plat of each of the following:

T 7 S, R 29 E

T 7 S, R 30 E

T 8 S, R 29 E

T 8 S, R 30 E

Gila and Salt River Meridian.

Also one plat of Mineral Survey No. 4059, Old Reliable group
in Sec. 10, T 8 S, R 18 E, Pinal County.

Send certified invoice as usual.

Very truly yours,

Walter R. Storms, Acting Supervising
Engineer, Tucson Field Office
Mining Division, Region IV

600.31 ✓
1453 ✓
461.2
ET
DF

February 24, 1950

Mr. Sam Jensen
Rt. 1, Box 201
Safford, Arizona

My dear Mr. Jensen:

Our engineer, Mr. Stewart, will be in Safford next Monday evening, February 27, and expects to look at your Apache tin claims the following day.

He knows your street address and phone number and will contact you. It may be that you will be able to go to the property with him.

Sincerely yours,

Walter R. Storms, Acting Supervising
Engineer, Tucson Field Office
Mining Division, Region IV

CC 6003 ✓
DF

LStewart, frj

August 1, 1949

Mr. Sam Jensen
Safford, Arizona

My dear Mr. Jensen:

200ms

Your letter of July 29 with reference to the tin ore samples from your Apache claims has been received. In my letter of May 9 I reported to you the results of the first tests made on the sample of tin-bearing material collected by Mr. Stewart. Subsequent tests have demonstrated that the ore is not amenable to concentration by sink-float methods and that no separation can be made of the tin and iron by an economically feasible process. However, it was found that grinding to 100-mesh liberated the tin and iron oxides from the rhyolite gangue and that a moderately good recovery was possible by flotation. Finer grinding and flotation yielded a concentrate which assayed 23.4 percent tin and 39.1 percent iron with a recovery of 72.2 percent of the tin.

Although these concentrates are low grade they are acceptable for smelting. On the strength of these results, we would like to make a more detailed examination of your property to see if there are other tin-bearing veins which, in the aggregate, might serve as the basis for a commercial operation. Mr. Stewart is now engaged in other work and it will be two or three months before he will be available to continue this investigation.

Sincerely yours,

J. H. HEDGES, Chief
Tucson Branch
Mining Division

CC Mr. Moon
6003
DF
JHHedges;frj

May 9, 1949
LAS:JHH:frj

Mr. Sam Jensen,
Rt. #1, Box 201,
Safford, Arizona.

Dear Mr. Jensen:

Re: Apache Tin Deposit

In reply to your letter of May 4, would state that our Metallurgical department is still working on the problem of making a tin concentrate that is relatively low in iron. Concentration of the ore is easy but the separation of the hematite from the tin is proving difficult for the reason that the two minerals are intimately intermixed.

Fifty pounds of the better pieces of Stewart's sample of your ore pile were taken for these tests. This 50-pound sample assayed 4.86 percent tin and 6.80 percent iron. A concentrate that recovered 85 percent of the tin was made that assayed 20.22 percent tin and 31.08 percent iron. Tests to date have not succeeded in materially reducing the iron content, owing to the fact that the tin and iron minerals are so interlocked that even fine grinding produces no appreciable liberation.

However, the laboratory is now making tests on sink-float methods of the various screen sizes, magnetic separation, etc.

As you are aware, the ore in the one vein opened was very shallow; examination of the samples taken from down in the cut shows that the tin content is too small to consider. Other veins would have to be found to make your property of any value.

If the laboratory tests indicate that a commercial concentrate can be made from the ore you found, we would like to spend a couple of days making a more detailed examination of your property to see if other veins are indicated.

Very truly yours,

J. H. HEDGES, Chief
Tucson Branch, Mining Division

CC Mr. Moon
6003
DF

*Sink-float on
10 mesh material*

*Falling test. -20 mesh.
23.1% Sn 34.1% Fe
Sn recovery 75.9%*

UNITED STATES
DEPARTMENT OF THE INTERIOR
District Land and Survey Office
~~GENERAL LAND OFFICE~~

~~PUBLIC SURVEY OFFICE~~

103 U.S. Court House
Phoenix, Arizona
March 6, 1950

File Apache Tim

*LAS
77*

WRS

Bureau of Mines,
Box 4097,
University Station,
Tucson, Arizona.
Mr. Walter R. Storms, Acting Supervising Engr.

Dear Sir:

Enclosed are copies of plats requested in
your letter of March 3d.

We will not make any charge for these
prints.

Very truly yours,



Thos. F. Britt, Manager

Encs.

6003

March 6, 1950

State Land Commissioner
Capitol Building, Annex B
Phoenix, Arizona

Gentlemen:

Please advise us which of the following sections have
the mineral rights vested in the State:

Sec. 36, T. 7 S., R. 29 E.; Sec. 31, T. 7 S., R. 30 E.

Sec. 1, T. 8 S., R. 29 E.; Sec. 6, T. 8 S., R. 30 E.

Very truly yours,

Lincoln A. Stewart for
Walter R. Storms, Acting Supervising
Engineer, Tucson Field Office,
Mining Division, Region IV

CC 6003 ✓
DF

LASTewart:frj

C
O
P
Y

October 28, 1948

Olsen's Welding Shop
Rt. 1 Box 187
Safford, Arizona

Gentlemen:

Your letter of October 19 has been received. Some possible buyers of tin ores are:

Bureau of Federal Supply, Washington, D.C.
Texas Mining & Smelting Co., Laredo, Texas
Vulcan Detinning Co., Sewaren, New Jersey

In 1946 I examined a deposit in the Safford area, and the samples were taken as follows:

a). In the gulch where the mineral was supposed to occur as placer, the surface was scraped off and rejected. Then pits were sunk through the gravel to bed rock, and representative samples of the material from these pits were taken.

b). On the slopes and crests of the drainage area of this gulch, representative samples were taken from outcrops.

If you care to take some samples in this manner and send them to us, we will gladly test them for tin.

It is our understanding that the Arizona Department of Mineral Resources, Mineral Bldg., State Fair Grounds, Phoenix, Arizona, may have a field engineer available for examination of such occurrences.

Yours sincerely,



Eldred D. Wilson, Geol.
Arizona Bureau of Mines

March 13, 1950

Mr. Sam Jensen
Rt #1 Box 201
Safford, Arizona

My dear Mr. Jensen:

Enclosed find a copy of the claim map drawn from field data secured during my recent examination. Note that the half section measurements to the south and to the east of the township corner vary from true $\frac{1}{2}$ -mile measurement. This is due to the fact that surveying errors are thrown into the west and north tier of sections in each township. These figures were secured from the General Land Office plats.

Also enclosed is a sketch showing ownership of vested mineral rights. Note that the $S\frac{1}{2}$ of $SW\frac{1}{4}$ of section 31 is Federal land with the remainder of the section owned by the State.

There is an interesting article in the January 1948 issue of Engineering and Mining Journal on the occurrence of tin in rhyolite in Mexico. You might be able to read it in some library!

The piece of sample enclosed is part of a larger piece, the "bubbles" of which you thought might be cassiterite. Microscopic examination shows that it is not tin, but mainly glassy silica.

Sincerely yours,

Lincoln A. Stewart, Mining Engineer
Tucson Field Office, Mining
Division, Region IV

CC 6003
DF-

LASTewart:frj

January 24, 1950

19th in phone book 1964

Mr. Sam Jensen
124 East 20th Street
Safford, Arizona

Dear Mr. Jensen:

With further reference to information on tin, we have just recently learned that the bulletins listed below are available from the U. S. Bureau of Mines, Department of the Interior, Washington D. C.:

USBM Information Circular 7804: Mining and Milling Methods and Costs at the Black Hills Tin Co., Tinton, So. Dakota

USBM Report of Investigation 3404: The Pegmatites at Tinton, So. Dakota

USBM Information Circular 7069: Tin Deposits of the Black Hills, So. Dakota

USBM Information Circular 7043: Reconnaissance of Mining Districts, Lander County, Nevada (Tin - Izenhood District)

USBM Report of Investigation 3876: Survey of Tin in California.

Yours very truly,

R. I. C. Manning
Field Engineer

RICM:mh

*see Strategic Minerals book
all 1-9-50 letters*

January 9, 1950

Mr. Sam Jensen
124 East 20th St.
Safford, Arizona

Dear Mr. Jensen:

Mr. R. I. C. Manning of this office has asked that we advise you what he has been able to learn in regard to publications on tin ore.

There is a new book entitled "Strategic Minerals" by John B. DeMille, published by McGraw-Hill Company, 330 West 42nd St., New York 18, N. Y., which contains 18 pages on tin. This book costs \$7.50 and Mr. Manning said he hardly felt the information on tin contained therein would be worth the purchase price to you. He suggested rather that some time when you are in Phoenix that you come to our offices and read the 18 pages.

In addition there are several Bureau of Mines Reports of Investigations on the subject which can no doubt be obtained without charge from the Bureau of Mines, Department of Interior, Washington, D. C. These are Report of Investigation Nos. 3902, 3978 and 4068.

Yours very truly,

Secretary

University of Arizona

TUCSON

Nov. 16, 1949

COLLEGE OF MINES
ARIZONA BUREAU OF MINES

Mr. Sam Jensen
124 E. 20th St.
Safford, Ariz.

Dear Mr. Jensen:

Roger Manning of the Dept. of Mineral Resources, Phoenix, left some samples of a black mineral with us recently to be identified. (our no. 25605)

This mineral is schorlite (a black variety of tourmaline). Tourmaline is a complex borosilicate mineral and has no commercial value in this form.

Yours very truly,

John W. Anthony
Mineralogist

cc Mr. Roger Manning

September 14, 1949

Mr. Sam Jensen
Route 1, Box 201
Safford, Arizona

Dear Mr. Jensen:

Mr. H. N. Wolcott gave me copies of analyses on your samples and I am certainly pleased to learn that you have an interesting showing of tin.

Mr. Dunning and I hope to be in Safford November 8, 1949 and will be glad to visit your property. I regret that a visit could not have been made sooner but we have not had sufficient funds.

Hoping to see you soon, I am

Yours very truly,

RICM:mh

Roger I. C. Manning
Field Engineer

August 23, 1949

Mr. Albert Spalding
Safford, Arizona

Dear Albert:

We have your card of August 17th and cannot understand why Mr. Jensen did not get my letter as I wrote him some time ago.

We were unable to detect the presence of tin in the samples by visual examination and we have no facilities for chemical testing. One of the engineers here crushed and panned some of the sample and made a few tests at home but got no indication of tin.

I would suggest that you take an accurate sample (no specimens) and have an assay made.

Is this the same property that Eldred Wilson of the Arizona Bureau of Mines, University of Arizona, Tucson, looked at several years ago?

Our funds are very limited and we do not have money enough at present to make a trip to Safford. However as soon as we can accumulate a little we will endeavor to pay your district a visit.

Best regards,

Yours sincerely,

Roger I. C. Manning
Field Engineer

RIGM:mh
cc-Sam Jensen

August 3, 1949

Mr. Sam Jensen
c/o Olsen's Welding Shop
Route 1, Box 187
Safford, Arizona

Dear Mr. Jensen:

Upon my return yesterday after a month out of the state I found your letter of July 29th and Mr. Spalding's card of August 17th regarding some samples you sent the department.

We have no facilities for making chemical assays but one of the men in the office took the samples home with him and made such tests as he was able. However he was unable to find a trace of tin. I would recommend that you have an assay made.

As we have almost no travel funds available at this time, it is hard to say when I might be able to look at your property. I will keep it in mind, however, and advise you in advance when I am able to come.

Yours very truly,

Roger I. C. Manning
Field Engineer

RICM:mh

July 19, 1949

Mr. Albert Spalding
Safford, Arizona

Dear Mr. Spalding:

Manning is gone until after August 1st and even after he returns I wonder when he will be able to make a trip as far as Safford.

You might send some of the tin ore in here and we will do what we can from here.

In regard to non-liability forms, we have contacted several printers but none have any. They say it is an individual matter, so you better try your own attorney.

Yours sincerely,

Chas. H. Dunning
Director

CHD:mh

November 3, 1948

Mr. Sam Jensen
Route 1, Box 201
Safford, Arizona

Dear Mr. Jensen:

We are interested in what you say about the tin, but you do not explain what the 7% sample represents.

We would like to have one of our engineers see the property but, unfortunately, our Mr. Manning has just spent a week in the Safford and Clifton districts and as he has so much ahead, it may be some time before he can get in there again.

When he can we will let you know, and in the meantime, please keep us advised of any new developments.

We are returning the assay certificate as you request.

Yours very truly,

Chas. H. Dunning
Director

CHD:mh
Enc.

UNITED STATES
DEPARTMENT OF THE INTERIOR

BUREAU OF MINES
WASHINGTON 25, D. C.

STATEMENT OF FACTS AS TO THE LOCATION AND NATURE
OF MINERAL DEPOSITS

The Bureau of Mines is directed by Sec. 7(a) of Public Law 520 - 79th Congress - to investigate domestic mineral resources with a view to developing greater reserves of those minerals which are essential to national defense or industry, and of which our present or probable future supplies are inadequate. The development program resulting from this legislation is based largely on the systematic examination of known mineral occurrences; a few carefully selected deposits are developed further by trenching, test-pitting, drilling, or other means. A development project must show promise of making a substantial contribution to the national security or economy, relative to the effort expended. The emphasis placed upon different mineral commodities will vary from time to time in accordance with changes in the trend of industrial demand and the needs of the stockpiling program.

It is not intended that the Bureau's development work shall duplicate or supplant the efforts of private industry, hence its projects are largely centered on deposits which are marginal in character or for some reason do not appear to justify private investment.

The results of preliminary examinations are not ordinarily released for publication, nor can the examination reports be made available to owners or other than Government agencies. The factual data resulting from development projects, including sampling and assaying data, are made available to owners upon conclusion of the projects, however, and are published as soon as possible afterward.

Applications for examinations or development projects are unnecessary, but initial investigation may be greatly assisted by complete factual information from interested parties. Examinations and other investigations will be made only in accord with the best judgment of the Bureau's engineers and the limitations of funds and personnel.

The following statement lists data especially desired. A supplementary sheet may be used if necessary for extended remarks.

STATEMENT

Made by Sam Jensen Address Safford Ariz Date Feb 28, 1949

Name of Property Apache Claims Metal Zn

Owned by Sam Jensen & John Lee Address Safford Ariz. Rt #1, Bx. 201

Leased or optioned to _____ Address _____

Situated in:

Sections 31 and 1; Townships 7 & 8; Ranges 29 & 30 Graham Arizona
(County) (State)

(70)

Give detailed directions for reaching property from nearest town:

Approx. 24 miles East of Safford Arizona on
Duncan Highway, near Ash Peak Mining property.

Name and address of local resident who can direct to the deposit

Mr or Mrs Sam Jensen - 124 E. 20th St. Safford. Phone
377J.

History of deposit not explored or developed, as was recently
located.

Shipments of ore made none

Known dimensions of the deposit: Length 1 mile feet; Width 1/4 mile feet; Depth undetermined feet.

Inclination:

Workings our location work is done on 2 of
our claims - have trenched down about 18 feet.
have on surface about 4 tons of ore - to date.

General description of mineral showings: mineral appears in gray granite rock and
red hematite, and lies in a slip or fissure.

Nuggets come as placer in wash about 1 mile
north of location works.

Sampling and assays by Smith & Emery Co. Los Angeles, as per copy
of reports submitted now. Also Analysis by Processing Corp
Longhorn Smelter, Texas City, Texas. (inclosed with this form)

Maps or sketches, especially those showing location of individual samples, their widths and values.

(If available) Engineer's report by none submitted (to be returned) (not to be returned)

SUMMARY REPORT OF WAR MINERALS EXAMINATION

State Arizona County Graham Mineral Products Tin

Name of property or deposit Apache claims

Date examined 3/10/49 Engineer Lincoln A. Stewart Date of this report 3/17/49

Engineer accompanied by Sam Jensen and John Lee Address R 1, Box 201, Safford, Ariz.

Extent of property 9 contiguous unpatented claims

Owner Sam Jensen and John Lee Address as above

Leased or optioned to No Address _____

Location of property (be specific) 1000 ft. north of US hwy 70 at 25 miles east of Safford.
Sec. 31, T 7 S and Sec 6, T 8 S, R 30 E.

Type of deposit and mineralogy (brief description) Tin oxide with hematite in stringers
in spherulitic rhyolite

Known dimensions of the deposit Only 2 small stringers have been prospected in 1 cut.
Another cut mined out a pocket of a few pounds.

Length	Width	Depth

Attitude of the deposit (strike, dip, etc.) In main cut, 2 stringers bearing S 20° E, 2 ft.
apart at surface, diverging in depth, dipping 60° N and 80° N. In other cut, small showing
of mineralized material on dump, but no indication of stringer in walls.

Possible extensions; correlation of known showings There probably are other undiscovered
mineralized stringers in the immediate area, as there is considerable lode float on the
hillside, and nuggets of cassiterite in the adjacent washes.

Mine workings (brief description or attach map or sketch) (indicate whether accessible) U
A pit 25 ft. long by average of 10 ft. deep. One end of cut is 18 ft. deep but was not
accessible.

Mining and milling equipment on property 60 c/f/m portable compressor, 2 jackhammers, and
small tools.

Past production (if any) None, new property

Present rate of production (if any) Prospecting only

Sampling (describe briefly, or attach sketch) Chip samples across the 2 stringers in main cut, grab sample of the 15-ton ore pile, samples of lode float, and numerous nuggets of wood-tin from washes. Character sample assayed 3% tin and 24% iron.

Tentative Estimate of Reserves
(Subject to revision when assays are received or after engineering calculations)

Insufficient showing to justify any estimate.
Measurable..... tons..... Grade.....
Indicated..... tons..... Grade.....
Inferred..... tons..... Grade.....

Mining method (actual or suggested).....

Milling or processing method (actual or suggested).....

Processing tests suggested.....

Tentative Class of Report to be submitted (check one)
Class A.....; Class B.....; Class C.....; Memo..... **letter**

Tentative conclusion and reasons for it. This location being made a few months ago, only limited work has been done. Tin is present in lode material from which is derived the cassiterite pebbles found in the gravels. The one pit is unimportant except that it shows the presence of tin mineralization. It is thought that other undiscovered stringers are present. On the opposite side of the hill, wood-tin in the wash suggests lode deposits on the hillside above. It is suggested that further field work be done.

To be accompanied by brief letter giving examining engineer's general impression of the deposit, his impression of the owner, and any other confidential information he may care to submit. May be executed in pencil. Should be mailed within 24 hours after examination is completed.

Send copies to: District Engineer; Regional Engineer; Asst. Director, Washington 25, D. C.

MAILED 21V1E2 BUREAU OF MINES

6-803
(March 1949) Mining Division
Date Rec'd

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF MINES

FED 2 - 1953

Soule' No. 64

BUREAU OF MINES
Denver, Colorado

MINING DIVISION
SUMMARY REPORT OF MINERALS EXAMINATION

State Arizona County Graham Mineral Products Tin

Name of property or deposit Apache Tin Claims

Date examined Jan. 19, 1953 Engineer John H. Soule' Date of this report Jan. 24, 1953

Engineer accompanied by None Address _____

Extent of property 15 unpatented claims

Owner (1950) J. D. Lee Address Gila, New Mexico
S. Jensen Safford, Arizona

Leased or optioned to None Address _____

Location of property (be specific) Sec. 31, T. 7 S., Sec. 6, T. 8 S., both R. 30 E.
in eastern Graham County, Arizona

Type of deposit and mineralogy (brief description) Cassiterite with specularite in
veinlets in rhyolite. Similar to the tin deposits in Sierra and Catron Counties, New
Mexico. A small amount of placer.

Known dimensions of the deposit Very limited lateral and vertical extent.
Length _____ Width _____ Depth _____

Attitude of the deposit (strike, dip, etc.) veinlets dip fairly steeply with general
northerly strike.

Possible extensions; correlation of known showings Placer and float in west wash
can be roughly correlated with veinlets. Placer in east wash from unlocated lode
source.

Mine workings (brief description or attach map or sketch) (indicate whether accessible) _____
A number of shallow pits and shafts, most of which are accessible.

CC: W.H.King
DF

(over)

Mining and milling equipment on property. None

Past production (if any) None

Present rate of production (if any) None

Sampling (describe briefly, or attach sketch) No sampling. A few specimens obtained.

Tentative Estimate of Reserves

(Subject to revision when assays are received or after engineering calculations)

Measurable Few tons Grade plus 3%

Indicated None tons Grade

Inferred None tons Grade

Mining method (actual or suggested) None

Milling or processing method (actual or suggested) None

Processing tests suggested None

Tentative conclusion and decision This property was more thoroughly examined by L. A.

Stewart in 1950. The recent examination was made because of the engineer's presence in the area and it was desired to compare these deposits with those in New Mex. The Apache tin deposits are too small to warrant work by the Bureau of Mines at this time. This conclusion is the same one reached by Stewart.

To be accompanied by brief letter giving examining engineer's general impression of the deposit, his impression of the owner, and any other confidential information he may care to submit. May be executed in pencil. Should be mailed within 24 hours after examination is completed.

Send original and one copy to Washington Office.

6-803
(January 1952)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF MINES

SUMMARY REPORT OF MINERALS EXAMINATION

State Arizona County Graham Mineral Products Tin

Name of property or deposit Apache Tin claims

Date examined 5/4/59 Engineer John H. Soule Date of this report 6/23/59

Reason for examination Auth. 3497, Research on Rare and Precious Metals

Engineer accompanied by alone Address _____

Extent of property 15 unpatented claims (1950)

Owner Sam Jensen Address Safford, Ariz.
J. D. Lee Address Gila, N. Mex.

Leased or optioned to none Address _____

Location of property (be specific) Sec. 31, T. 7 S., R. 30 E., and sec. 6, T. 8 S., R. 30 E. Graham County, Ariz.

Type of deposit and mineralogy (brief description) Intermixed cassiterite and specularite in altered rhyolite

Known dimensions of the deposit very limited
Length _____ Width _____ Depth _____

Attitude of the deposit (strike, dip, etc.) Steeplly dipping veinlets with general northerly strike

Possible extensions; correlation of known showings Other possible areas containing tin minerals.

Mine workings (brief description or attach map or sketch) (indicate whether accessible) Shallow pit, mostly accessible

(over)

Mining and milling equipment on property No equipment on property

Past production (if any) none

Present rate of production (if any) none

Sampling (describe briefly, or attach sketch) One general sample of the tin-bearing rhyolite to test for possible beryllia content.

Tentative Estimate of Reserves

(Subject to revision when assays are received or after engineering calculations)

Measurable none tons BeO Grade

Indicated none tons BeO Grade

Inferred none tons BeO Grade

Mining method (actual or suggested) none

Milling or processing method (actual or suggested) none

Processing tests suggested none

Tentative conclusion and decision The general sample contained less than 0.005% BeO. Any reserves of beryllium bearing minerals is considered insignificant.

To be accompanied by brief letter giving examining engineer's general impression of the deposit, his impression of the owner, and any other confidential information he may care to submit. Refer to any known prior examinations and reports. May be executed in pencil. Should be mailed within 24 hours after examination is completed.

Send original and one copy to Washington Office.

DEPARTMENT OF MINERAL RESOURCES

State of Arizona

MINE OWNER'S REPORT

Date Nov 8, 1949

1. Mine: Apache
2. Location: Sec. 31 Twp. 7 S Range 30 E Nearest Town Safford
Distance Direction Road Condition Excellent

3. Mining District & County:

4. Former Name of Mine:

5. Owner: Sam Jensen
Address: 124 E 20th St., Safford, Ariz.

6. Operator: None
Address:

7. Principal Minerals: Tin

8. Number of Claims: Lode [checked] Placer
Patented Unpatented [checked]

9. Type of Surrounding Terrain: Low hills. S.W. foot hills of Peloncillo Mts. El. 3100

10. Geology & Mineralization: Phylite and dacite. Cassiterite occurs in thin veins 1/4" wide striking NE SW. spotty. Some nodules from weathered portion found as placer in nearby washes. No ore showing. Prospect only.

11. Dimension & Value of Ore Body: Prospect only. Not sufficient work to determine size.

12. Ore "Out" or "In Sight": stringers only

Ore Probable: questionable

13. Mine Workings—Amount and Condition:

No.	Feet	Condition
Shafts.....		<u>Prospect holes only. Location won</u>
Raizes.....		
Tunnels.....		
Crosscuts.....		
Stopes.....		

14. Water Supply: None

15. Brief History:

16. Signature:

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

Office Memorandum • UNITED STATES GOVERNMENT

TO : J. H. HEDGES, Tucson, Arizona

FROM : LINCOLN A. STEWART, Tucson, Ariz.

SUBJECT: Apache tin claims, Graham County, Arizona.

DATE: March 25, 1949

An examination of the Apache tin claims on March 10, 1949 was made at the request of Mr. Sam Jensen, who had furnished this office with several assay reports that indicated a fair percentage of tin.

The Apache group, consisting of 9 contiguous unpatented mining claims located in the fall of 1948, is owned by Sam Jensen and John Lee, both of whom live at Safford, Ariz.

Accompanied by these two men, I drove to and made a preliminary examination of the property, which is readily accessible from either Safford or Duncan via paved U. S. Highway 70. Road directions are as follows: (from the junction of State Highway 666 and U. S. Highway 70 on the east side of Safford, travel east on 70. At 24.5 miles pass mile post 364 on right side of road, and at 25.1 is a road cut that exposes a 10-foot dike of obsidian. The property lies immediately north of this cut. One can drive to the Apache prospect pit by turning left at 0.2 mile east of mile post 364 onto a dim trail that connects with an abandoned oiled road; following the old road east to a point above the "obsidian" cut where the road is fenced off, then turn left up the hill several hundred feet to the prospect pit. From the Federal checking station in Duncan, this "obsidian" road cut is 14.8 miles west on U.S. 70. ①

The two owners have had the property only a few months. They are both amateurs at prospecting; have regular work in Safford, and find time only on week ends to work the claims. Consequently very little work has been accomplished, in fact the location pits have not been dug on most of the claims that have been staked. Mr. Jensen told me that he has been going slow on exploratory work as he cannot afford to spend heavily on the venture; that if our examination and report shows the material too low grade to work profitably, he probably will drop the undertaking.

Their mining equipment consists of a small, portable compressor, 2 jackhammers, and a few small tools. The compressor carries a name plate "Smith Motor Compressor", utilizes a rebuilt model "A" Ford engine, develops approximately 60 c/f/m and will hardly operate a jackhammer.

The claims are in sec. 31, T. 7 S., and sec. 6, T. 8 S., of R. 30 E, Graham County, about 2 miles ~~east~~^{west} of the Greenlee County line.

The rocks in this area appear to be of diversified varieties and textures of rhyolite, with spherulitic types predominating. The claims lie across a hill with relatively gentle slope. Except for numerous knobs, irregularly shaped ledges, and small cliffs weathered to a rusty brown color, the surface is covered with a mantle of soil and loose rock. My impression is that the average thickness of the cover would not be more than a couple of feet.

CC Mr. Moon (2)
6003
DF

Saff of Arizona
July 29, 1949

U.S. Dept of Interior,
So. West Experiment Station
Tucson Ariz

Dear Sirs:

Regarding your letter of May 9
would like to know results of your
experiments of tin ore samples
from Apache claims.

Since Mr Stewart was at the lo-
cation we have opened up two more
small veins.

Would appreciate it if we could
have a geologist come over to investi-
gate and advise us concerning property.
We haven't worked claim lately
because of hot weather.

Please let us hear from you.

I remain sincerely,

Sam Jensen

Safford Ariz
July 29, 1949

Dept. of Mineral Resources
Phoenix, Ariz

Dear Sirs:

Replying to your letter (July 19) to Mr Albert Spaulding in regard to tin ore - am shipping today, by express, ore samples, for your inspection, and would appreciate a visit from your Mr. Manning as soon as it is convenient.

Have had this ore assayed by Smith Emery Assaying Co. of Los Angeles and assays run from $7\frac{1}{2}$ to 22%

Thanking you, I remain

Sincerely

Sam Jensen
Safford Ariz

Safford, Arizona
Nov 8, 1948

Mr Chas H. Dunning.
Phoenix Arizona

Dear Sir

Referring to your letter of Nov. 3, saying you wanted to know what the 7% sample represents, will say that the rock we had assayed was an average sample from a very large lode deposit. Hope this answers your question.

This property has had no development work done as this is a new discovery.

Have sent additional samples to be assayed, but haven't had time for report.

Will keep you posted if there are any new developments.

Yours very truly

Sam Jensen

RR #1, Box 201

Safford Ariz.

Safford Ariz
Oct 26th 1948

Mr Chas H. Dunning
Dept. of Mineral Resources
Mineral Bldg. St. Fairgrounds, Phoenix.

Dear Sir;

Inclosed please find copy of assay report on what appears to be an exceptionally large deposit of tin bearing ore.

I would appreciate it if you can assist me in making connections with National security authorities or any individual or company who would be interested in above material.

Thanking you in advance I remain,
Sincerely,

Sam Jensen

RT #1, Box 201

Safford Arizona.

P.S. Please return copy of assay.

TIN:

USBM Information Circular 7804: Mining and Milling Methods and Costs at the
Black Hills Tin Co., Tinton, So. Dakota.

USBM Report of Investigation 3404: The Pegmatites at Tinton, So. Dakota

USBM Information Circular 7069: Tin Deposits of the Black Hills, So. Dakota.

USBM Information Circular 7048: Reconnaissance of Mining Districts, Lander County,
Nevada. (Tin; - Izenhood District)

USBM Report of Investigation 5376: Survey of Tin in California.

SUMMARY REPORT OF WAR MINERALS EXAMINATION

State Arizona County Graham Mineral Products Tin

Name of property or deposit Apache claims

Date examined 3/10/49 Engineer Lincoln A. Stewart Date of this report 3/17/49

Engineer accompanied by Sam Jensen and John Lee Address R 1, Box 201, Safford, Ariz.

Extent of property 9 contiguous unpatented claims

Owner Sam Jensen and John Lee Address as above

Leased or optioned to No Address _____

Location of property (be specific) 1000 ft. north of US hwy 70 at 25 miles east of Safford.
Sec. 31, T 7 S and Sec 6, T 8 S, R 30 E.

Type of deposit and mineralogy (brief description) Tin oxide with hematite in stringers
in spherulitic rhyolite

Known dimensions of the deposit Only 2 small stringers have been prospected in 1 cut.
Another cut mined out a pocket of a few pounds.
Length _____ Width _____ Depth _____

Attitude of the deposit (strike, dip, etc.) In main cut, 2 stringers bearing S 20° E, 2 ft.
apart at surface, diverging in depth, dipping 60° N and 80° N. In other cut, small showing
of mineralized material on dump, but no indication of stringer in walls.

Possible extensions; correlation of known showings There probably are other undiscovered
mineralized stringers in the immediate area, as there is considerable lode float on the
hillside, and nuggets of cassiterite in the adjacent washes.

Mine workings (brief description or attach map or sketch) (indicate whether accessible) _____
A pit 25 ft. long by average of 10 ft. deep. One end of cut is 18 ft. deep but was not
accessible.

Mining and milling equipment on property 60 c/f/m portable compressor, 2 jackhammers, and
small tools.

Past production (if any) None, new property

Present rate of production (if any) Prospecting only

Sampling (describe briefly, or attach sketch) Chip samples across the 2 stringers in main cut, grab sample of the 15-ton ore pile, samples of lode float, and numerous nuggets of wood-tin from washes. Character sample assayed 3% tin and 24% iron.

Tentative Estimate of Reserves

(Subject to revision when assays are received or after engineering calculations)

Insufficient showing to justify any estimate.

Measurable..... tons..... Grade.....

Indicated..... tons..... Grade.....

Inferred..... tons..... Grade.....

Mining method (actual or suggested).....

Milling or processing method (actual or suggested).....

Processing tests suggested.....

Tentative Class of Report to be submitted (check one)

Class A.....; Class B.....; Class C.....; Memo letter

Tentative conclusion and reasons for it This location being made a few months ago, only limited work has been done. Tin is present in lode material from which is derived the cassiterite pebbles found in the gravels. The one pit is unimportant except that it shows the presence of tin mineralization. It is thought that other undiscovered stringers are present. On the opposite side of the hill, wood-tin in the wash suggests lode deposits on the hillside above. It is suggested that further field work be done.

To be accompanied by brief letter giving examining engineer's general impression of the deposit, his impression of the owner, and any other confidential information he may care to submit. May be executed in pencil. Should be mailed within 24 hours after examination is completed.

Send copies to: District Engineer; Regional Engineer; Asst. Director, Washington 25, D. C.

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF MINES
WASHINGTON 25. D. C.

STATEMENT OF FACTS AS TO THE LOCATION AND NATURE
OF MINERAL DEPOSITS

The Bureau of Mines is directed by Sec. 7(a) of Public Law 520 - 79th Congress - to investigate domestic mineral resources with a view to developing greater reserves of those minerals which are essential to national defense or industry, and of which our present or probable future supplies are inadequate. The development program resulting from this legislation is based largely on the systematic examination of known mineral occurrences; a few carefully selected deposits are developed further by trenching, test-pitting, drilling, or other means. A development project must show promise of making a substantial contribution to the national security or economy, relative to the effort expended. The emphasis placed upon different mineral commodities will vary from time to time in accordance with changes in the trend of industrial demand and the needs of the stockpiling program.

It is not intended that the Bureau's development work shall duplicate or supplant the efforts of private industry, hence its projects are largely centered on deposits which are marginal in character or for some reason do not appear to justify private investment.

The results of preliminary examinations are not ordinarily released for publication, nor can the examination reports be made available to owners or other than Government agencies. The factual data resulting from development projects, including sampling and assaying data, are made available to owners upon conclusion of the projects, however, and are published as soon as possible afterward.

Applications for examinations or development projects are unnecessary, but initial investigation may be greatly assisted by complete factual information from interested parties. Examinations and other investigations will be made only in accord with the best judgment of the Bureau's engineers and the limitations of funds and personnel.

The following statement lists data especially desired. A supplementary sheet may be used if necessary for extended remarks.

STATEMENT

Made by Sam Jensen Address Safford Ariz Date Feb 28, 1949
Name of Property Apache Claims Metal Zinc
Owned by Sam Jensen & John Lee Address Safford Ariz. Rt #1, Bx 20
Leased or optioned to _____ Address _____

Situated in:

Sections 31 and 1; Townships 7 & 8; Ranges 29 & 30 Graham Ariz
(County) (State)

(over)

(70)

Give detailed directions for reaching property from nearest town:

Approx. 24 miles East of Safford Arizona on
Duncan Highway, near Ash Peak Mining property

Name and address of local resident who can direct to the deposit

Mr or Mrs Sam Jensen - 124 E. 20th St. Safford. Phone 377J2

History of deposit not explored or developed, as was recently located.

Shipments of ore made none

Known dimensions of the deposit:

Length 1 mile feet; Width 1/2 mile feet; Depth undetermined feet.

Inclination:

Workings our location work is done on 2 of our claims - have trenched down about 18 feet. have on surface about 4 tons of ore - to date.

General description of mineral showings:

mineral appears in gray granite rock and red hematite, and lies in a slip or fissure. Nuggets comes as placer in wash about 1 mile north of location works.

Sampling and assays by Smith + Emery Co. Los Angeles, as per copy reports submitted now. Also Analysis by Processing Corp. - Ingham Smelter, Texas City, Texas. (inclosed with this form)

Maps or sketches, especially those showing location of individual samples, their widths and values.

(If available) Engineer's report by none submitted (to be returned) (not to be returned)

TIN PROCESSING CORPORATION * LONGHORN SMELTER
CERTIFICATE OF ANALYSIS

MISC. SAMPLES
Mr. Sam Jensen,
24 East 20th St/
Tucson, Arizona

Laboratory No.	Lot No.	Sn	Sb	As	Pb	Bi	Cu	Fe	Ag	SiO ₂	S
-1096	#1 Nuggets	55.54	.21	.01	.07	.01	.02	19.40		4.82	.11
-1097	#2 Surface Rock	23.63	.48	.04	.02	.02	.05	25.60		31.82	.06

S

EMERY COMPA
 Chemical Engineers and Chemists
 Metallurgical and Testing Engineers
 920 Santee St
 Los Angeles 15, California

Laboratory
 No. 301154

Sample
 Ore

Received 12/4/48

Submitted by Sam Jensen
 Rt. 1, Box 201,
 Safford, Arizona

Report of Qualitative Spectrographic Examination

<u>Element</u>	<u>Approximate Quantity</u>
Silicon -----	Major Constituent
Tin, Iron, Sodium, Aluminum -----	Intermediate Constituents
	<u>Minor Constituents</u>
Potassium -----	1 %
Calcium -----	0.5%
Antimony -----	0.5%
Magnesium -----	0.5%
Manganese -----	0.1%
Lead -----	0.05%
Tungsten -----	0.05%
Zirconium -----	0.05%
Titanium -----	0.05%
Zinc -----	0.05%
Copper -----	0.005%
Barium -----	0.005%
Gallium -----	0.005%
Bismuth -----	0.005%
Molybdenum -----	0.005%
Nickel -----	0.001%
Cobalt -----	0.001%
Strontium -----	Trace
Chromium -----	Trace

Report of Chemical Determination

Tin (sn) ----- 12.84%

Respectfully submitted

Smith-Emery Company
 Chemists and Engineers

November 2, 1948
J. H. Hedges

Mr. Sam Jensen,
Rt #1, Box 201,
Safford, Arizona.

Dear Mr. Jensen:

Your letter of October 30 with reference to a deposit of what you believe to be high-grade tin has been received.

The Bureau of Mines is interested in obtaining information regarding deposits of strategic and critical minerals. It will be appreciated if you will complete and return the enclosed "Statement of Facts" form which will assist you in furnishing the information we would like to have. The location of the property and the directions for reaching it should be given as clearly and explicitly as possible.

If the deposit appears to be of sufficient interest to justify further investigation by the Bureau of Mines, it will be listed for examination when we have an engineer available.

Very truly yours,

J. H. HEDGES, Chief
Tucson Branch, Mining Division

CC Mr. Moon
550
DF

Safford Arizona
Oct 30th 1948

Mr J.H. Hedges of U.S. Bureau of Mines,
Tucson, Arizona.

Dear Mr Hedges,

Have located a large deposit of
what appears to be high grade tin.
The assay sheets report it 7.12% tin.

Would you be interested in in-
vestigating it? If so, write to me,
or telephone 37952, or better yet
come and see for yourself.

Respectfully,

Sam Jensen

Safford Arizona

RT #1, Box 201

U. S. BUREAU OF MINES

NOV 1 1948

RECORDED

XXXXXXXXXX
XXXXXXXXXX

March 25, 1949
frj

MEMORANDUM FOR: LOWELL B. MCON, Washington, D. C.
FROM : LINCOLN A. STEWART, Tucson, Arizona.
SUBJECT : Summary report, Apache tin claims, Graham County, Ariz.

Attached are two copies of summary report and memorandum on the Apache tin claims of Graham County, Arizona.

LINCOLN A. STEWART

CC Mr. Hedges
6003
BF

T Met-6

UNITED STATES DEPARTMENT OF THE INTERIOR
BUREAU OF MINES
Tucson Division Metallurgical Branch

SAMPLE REPORT

Date March 24, 1949

To: J. Bruce Clemmer From: Lincoln A. Stewart
Metallurgical Division Mining Division
Tucson, Arizona Tucson, Arizona

Name and Location of Property or Project:

Apache tin claims near Duncan

Number of Samples in Shipment: 1 in 2 bags. Total Weight 50 lbs.

Shipped _____; GBL No. _____ Carrier by hand

Nature of Ore and general comments:

Oxides of iron and tin in rhyolite

Identification of Samples with tests or analyses desired:

Sample No. 4446

Head assay Sn and Fe

Make gravity concentration

Concentrate assay Sn and Fe

Please save concentrate

UNITED STATES DEPARTMENT OF THE INTERIOR
BUREAU OF MINES
Apache Claims, near Duncan

No. _____

Report to Mr. Lincoln A. Stewart

Chemical Laboratory Report

Date received 3-11-49

Date reported 3-18-49

Serial No.	DESCRIPTION	Lot No.	% Sn	% Fe										
	Sample No. 4445		2.95	24.0										

JHHedges
cc: 533.1
DF

Signed J. B. Cramer

T Met-6

UNITED STATES DEPARTMENT OF THE INTERIOR
BUREAU OF MINES
Tucson Division Metallurgical Branch

SAMPLE REPORT

Date MARCH 11, 1949

To: J. BRUCE CLEMMER

From: LINCOLN A. STEWART

Metallurgical Division

Mining Division

Tucson, Ariz.

Tucson, Ariz.

Name and Location of Property or Project:

Apache claims, near Duncan

Number of Samples in Shipment: 1 in 1 bags. Total Weight _____

Shipped _____; GBL No. _____ Carrier Hand

Nature of Ore and general comments:

Oxides in rhyolite

Identification of Samples with tests or analyses desired:

Sample No. 4445

Run for Sn and Pb

XXXXXXXXXXXX
XXXXXXXXXXXX

March 4, 1949

LAS:IB

Mr. Sam Jenson,
Route 1, Box 201,
Safford, Arizona.

Dear Mr. Jenson:

One of our engineers, Lincoln A. Stewart, will be in Safford Wednesday evening, March 9. He will then phone you and arrange to meet you for an inspection of your Apache claims on the following day.

If this time is not agreeable to you please advise us before next Wednesday.

Very truly yours,

CC Files Chron Noon

J. H. HEDGES, Chief,
Tucson Branch, Mining Division.

THE PROCESSING CORPORATION
Acting for and on behalf of
RECONSTRUCTION CORPORATION
OFFICE OF
METALS RESERVE

TEXAS CITY, TEXAS

February 16, 1949

Mr. Sam Jensen,
Rt. 1, Box 201,
Safford, Arizona

Dear Sir :

Enclosed you will find our certificate of assay on the two samples you have mailed to us with your note of January 26th. We also return to you the report from the Smith-Ernery Company.

The assay shows that our samples are truly tin ore and although the material does not represent a very high grade of ore, we have no objection to smelting it at Texas City. We expect, however, that concentration would be a rather simple matter, and that, in that way, freight charges could be materially reduced.

All tin-bearing materials for this smelter are purchased by the Reconstruction Finance Corporation in Washington, D. C., which government agency will be glad to give you the information you have requested as to smelting charges, etc. By copy of this and your letter, we shall inform the R.F.C.

Yours very truly

Alex. L. ter Braake

ALTB:hr
Enclosures
cc: Mr. Chapman (3)
Mr. Richards

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF MINES

EASTERN EXPERIMENT STATION

COLLEGE PARK, MARYLAND
January 27, 1949

Mr. Sam Jensen
Safford, Rt. 1 Box 201
Arizona.

Dear Mr. Jensen:

This is in reply to your request for identification of several samples.

Your sample of "surface rock" contains natural glass, opaline silica, zeolite and hematite. No tin-bearing minerals were observed in these samples.

Your second submittal accompanied by a spectrographic report, contains cassiterite (tin oxide). The placer pebbles are cassiterite, variety "wood tin". The rock associated with this sample is composed of soda feldspar, quartz, cassiterite, hematite, muscovite and manganese oxide.

~~The Bureau~~
The Bureau of Mines is interested in obtaining specific information as to the location of tin deposits of possible commercial value. If you will fill out the enclosed Statement of Facts form as completely as possible and send it direct to Mr. J. H. Hedges, Chief, Tucson Branch Mining Division, Bureau of Mines, Southwest Experiment Station, Box 40 97 University Station, Tucson, Arizona, your deposit may be considered for examination by Bureau engineers.

Very truly yours,

P. M. AMBROSE?, CHIEF
College Park Branch
Metallurgical Division

Enclosure

August 1, 1949

Mr. Sam Jensen
Safford, Arizona

My dear Mr. Jensen:

200ms

Your letter of July 29 with reference to the tin ore samples from your Apache claims has been received. In my letter of May 9 I reported to you the results of the first tests made on the sample of tin-bearing material collected by Mr. Stewart. Subsequent tests have demonstrated that the ore is not amenable to concentration by sink-float methods and that no separation can be made of the tin and iron by an economically feasible process. However, it was found that grinding to 100-mesh liberated the tin and iron oxides from the rhyolite gangue and that a moderately good recovery was possible by flotation. Finer grinding and flotation yielded a concentrate which assayed 23.4 percent tin and 39.1 percent iron with a recovery of 72.2 percent of the tin.

Although these concentrates are low grade they are acceptable for smelting. On the strength of these results, we would like to make a more detailed examination of your property to see if there are other tin-bearing veins which, in the aggregate, might serve as the basis for a commercial operation. Mr. Stewart is now engaged in other work and it will be two or three months before he will be available to continue this investigation.

Sincerely yours,

J. H. HEDGES, Chief
Tucson Branch
Mining Division

CC Mr. Moon
6003
DF
JHHedges;frj

S. H. & Arizona

July 29, 1949

U.S. Dept of Interior,
So. West Experiment Station
Tucson Ariz

Dear Sirs:

Regarding your letter of May 9
would like to know results of your
experiments of tin ore samples
from Apache claims.

Since Mr Stewart was at the lo-
cation we have opened up two more
small veins.

Would appreciate it if we could
have a geologist come over to investi-
gate and advise us concerning property.

We haven't worked claims lately
because of hot weather.

Please let us hear from you.

I remain sincerely,

Sam Jensen

May 9, 1949
LAS:JHH:frj

Mr. Sam Jensen,
Rt. #1, Box 201,
Safford, Arizona.

Dear Mr. Jensen:

Re: Apache Tin Deposit

In reply to your letter of May 4, would state that our Metallurgical department is still working on the problem of making a tin concentrate that is relatively low in iron. Concentration of the ore is easy but the separation of the hematite from the tin is proving difficult for the reason that the two minerals are intimately intermixed.

Fifty pounds of the better pieces of Stewart's sample of your ore pile were taken for these tests. This 50-pound sample assayed 4.86 percent tin and 8.80 percent iron. A concentrate that recovered 85 percent of the tin was made that assayed 20.22 percent tin and 31.08 percent iron. Tests to date have not succeeded in materially reducing the iron content, owing to the fact that the tin and iron minerals are so interlocked that even fine grinding produces no appreciable liberation.

However, the laboratory is now making tests on sink-float methods of the various screen sizes, magnetic separation, etc.

As you are aware, the ore in the one vein opened was very shallow; examination of the samples taken from down in the cut shows that the tin content is too small to consider. Other veins would have to be found to make your property of any value.

If the laboratory tests indicate that a commercial concentrate can be made from the ore you found, we would like to spend a couple of days making a more detailed examination of your property to see if other veins are indicated.

Very truly yours,

J. H. HEDGES, Chief
Tucson Branch, Mining Division

CC Mr. Moon
6003
DF

*Sink-float on
10 mesh material*

*Subliming test. -20 mesh.
23.1% Sn 34.1% Fe
Sn recovery 75.9%*

Safford Ariz
May 4, 1949

U S Dept of Interior
Bureau of Mines
Tucson Arizona.

Dear Sirs;

About two months ago your engineer, Mr Stewart was over here and spent a day at the location of our tin deposit. He took with him samples of the ore which he said he would test and send us a report on his findings.

As to date have not heard further from Mr Stewart. Would like to hear from you as to what has been done about it

I remain sincerely

Sam Jensen

RT#1, Box 201

Safford Ariz.

MAY 6 1949



OFFICE OF
State Land Department
STATE OF ARIZONA
Phoenix, Arizona

W. W. LANE
C. W. WILLIAMS
STATE LAND COMMISSIONER

March 7, 1950

United States Department of the Interior,
Bureau of Mines,
Southwest Experiment Station,
Box 4097,
University Station,
Tucson, Arizona.

Attention: Mr. Lincoln A. Stewart.

Dear Sir:

We have your letter of March 6, 1950, in which you request information regarding the vested mineral rights in the State of the following sections:

Section 36	T.7S	R.20E
Section 31	T.7S	R.30E
Section 1	T.8S	R.20E
Section 6	T.8S	R.30E

This is to advise you that the mineral rights on Section 36, T.7S., R.20E., and lots 1,2,3,4; E1/4SW; E1/4SE; E1/4NE; S1/4SW; N1/4SE; Section 31, T.7S., R.30E, are vested in the State of Arizona.

Very truly yours,

W. W. Lane,
State Land Commissioner.

WNL/ged

U. S. DEPARTMENT OF THE INTERIOR

MAR 10 1950

Tucson, Arizona

UNITED STATES
DEPARTMENT OF THE INTERIOR
District Land and Survey Office
~~GENERAL LAND OFFICE~~

~~PUBLIC SURVEY OFFICE~~

103 U.S. Court House
Phoenix, Arizona
March 6, 1950

Call Apache Jim

*FAS
2/7*

W. R. Storms

Bureau of Mines,
Box 4097,
University Station,
Tucson, Arizona.
Mr. Walter R. Storms, Acting Supervising Engr.

Dear Sir:

Enclosed are copies of plats requested in
your letter of March 3d.

We will not make any charge for these
prints.

Very truly yours,



Thos. F. Britt, Manager

Encs.

6003

March 6, 1950

State Land Commissioner
Capitol Building, Annex B
Phoenix, Arizona

Gentlemen:

Please advise us which of the following sections have
the mineral rights vested in the State:

Sec. 36, T. 7 S., R. 29 E.; Sec. 31, T. 7 S., R. 30 E.

Sec. 1, T. 8 S., R. 29 E.; Sec. 6, T. 8 S., R. 30 E.

Very truly yours,

Lincoln A. Stewart for
Walter R. Storms, Acting Supervising
Engineer, Tucson Field Office,
Mining Division, Region IV

CC 6003 ✓
DF

LASTewart:frj

MAR 7 1950

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF MINES

SOUTHWEST EXPERIMENT STATION
Box 4097
UNIVERSITY STATION

TUCSON, ARIZONA
March 6, 1950

U. S. Bureau of Land Management
Public Survey Office
U. S. Court House
Phoenix, Arizona

1724
10/1

Gentlemen:

Please advise us which of the following sections have
the mineral rights vested in the State:

Sec. 36, T. 7 S., R. 29 E.; Sec. 31, T. 7 S., R. 30 E.

Sec. 1, T. 8 S., R. 29 E.; Sec. 6, T. 8 S., R. 30 E.

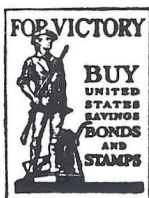
Very truly yours,

Lincoln A. Stewart

Lincoln A. Stewart for
Walter R. Storms, Acting Supervising
Engineer, Tucson Field Office
Mining Division, Region IV

3-7-50, Memo: Sec. 36, T. 7 S., R. 29 E. - mineral rights vested in State
Sec. 31, T. 7 S., R. 30 E. - mineral rights vested in State
on $N\frac{1}{2}$, $SW\frac{1}{4}$, $N\frac{1}{2}SE\frac{1}{4}$. Minerals in $S\frac{1}{2}SE\frac{1}{4}$ vested in U. S.
Sec. 1, T. 8 S., R. 29 E. - Minerals in U. S.
Sec. 6, T. 8 S., R. 30 E. - Minerals in U. S.

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U. S. BUREAU OF MINES

MAR 9 1950

PHOENIX, ARIZONA