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MINERAL SURVEY No. 3734

Arizona Land District.

FIELD NOTES

OF THE SURVEY OF THE MINING CLAIM OF

San Xavier Extension Copper Company

KNOWN AS THE

RED OXIDE No. 4 lode

Pima Mining District,

Pima County, Arizona

Section 2, Township 17 S., Range 12 E.

Surveyed under instructions dated Dec. 20, 1920

by *J. N. Stevens*
U. S. Mineral Surveyor.

Claim located See location notices, 19

Survey commenced January 8, 1921

Survey completed January 10, 1921

Address of claimant Kingan, Cambell & Connor, Tucson, Ariz.
Attorneys for Claimant.

DATES OF AMENDED LOCATIONS.

MINERAL SURVEY NO. 3734

Feet

RED OXIDE NO.4. Lode

Beginning at Cor.No.1 identical with Loc.Mon.

An iron pipe 1 in. diam with brass cap 2 ins. sq on top, 18 ins. above the ground, set 18 ins. in the ground; stamped with Cross (X) 1-RO No.4 - 3734, with md of stone $3\frac{1}{2}$ ft base by 3 ft high alongside, whence the 1/4 Cor. bet. Secs. 2 and 3, T. 17 S.R. 12 E. brs N. $53^{\circ}37'$ W. 1529.94 ft.

Cor. No. 2, Sur. No. 3727 Crown Prince No.8 lode, Mineral Hill Consolidated Copper Company, claimant brs S $45^{\circ}37'20''$ E. 281.9 ft.

No other bearings are available.

Thence S $24^{\circ}01'$ E.
Va. $13^{\circ}30'$ E.

298.75 To W. end Center. An iron pipe 2 ins. diam. by 4 ft. high, set firmly in the ground and surrounded with a md. of stone $3\frac{1}{2}$ ft base by 3 ft high, stamped W. Cr. R.O. No.4.

485.24 To Cor. No. 4, Sur. No. 1758, Red Oxide lode, Claimant herein.

489.29 Intersect line 5-6, Sur. No. 415 San Xavier lode, Claimant unknown, at N. $81^{\circ}45'$ E., 435.22 ft from Cor. No.6 and S. $81^{\circ}45'$ W. 1054.98 ft from Cor. No.5.

598.75 To Cor. No. 2.
An iron pipe 1 in. diam. with brass cap 2 ins. sq. on top, 18 ins. above ground, set 18 ins. in the ground, stamped with Cross (X) 2 R O No.4, 3734, with md of stone $3\frac{1}{2}$ ft base by 3 ft high alongside.
No bearings are available.
Thence N. $75^{\circ}53'$ E. available.
Va. $13^{\circ}30'$ E.

725.03 Intersect W. line Lot 38 San Xavier lode, claimant unknown, at S. 11° E., 231.54 ft. from N.W. Cor.

1030.72 To Cor. No. 3, Identical with Cor. No. 3, Sur. No. 1650, Iron Mountain lode, Cor. No. 6, Sur.No. 411, Patterson lode, and Cor. No. 5, Sur. No. 415 San Xavier lode, Claimants unknown.

Feet	MINERAL SURVEY NO. 3734 RED OXIDE NO 4 Lode Cont'd
	A limestone rock 4X14 ins., showing 10 ins. above ground, chiseled with cross (X) 3 R O No.4, 3734, 3-1650 and P.
	An old post 4 ins. sq by 4 ft high set in md of stone, scribed NE S X and NW P., brs N.10°23' E 33 ft. The N.W. Cor. Lot 38 San Xavier lode brs. N.65°51'01"W., 373.31 ft. No other bearings are available.
220.59	Intersect N. line lot 38 San Xavier lode at N.79° E. 255.56 ft. from N.W. Cor. Thence N.24°01' W. Va. 13°30' E.
300	To E. end Center. Identical with W. end Center, Sur. No.1650, Iron Mountain lode. An iron pipe 2 ins. diam. by 4 ft high set firmly in the ground and surrounded with md of stone 3½ ft base by 3 ft high. Stamped E. Cr. R.O. No.4.
312.68	Intersect line 2-3, Sur. No.3727, Crown Prince, No.8 lode, at S 78° 25' W. 36.09 ft from Cor, No. 3 and N. 78° 25' E. 933.51 ft from Cor. No. 2.
598.75	To Cor. No. 4, identical with Cor. No.4, Sur.No.1650, Iron Mountain lode.
	A limestone rock 4X12 ins. showing 12 ins. above ground. Chiseled with cross (X) 4 R O No.4 - 3734 and 4 - 1650, with md of stone 3½ ft base by 3 ft high alongside.
	A limestone rock in place 2X3 ft showing 1 ft above ground, chiseled with cross (X) 4-1650 - 4-3734 B R brs S 7° 45' E. 15.3 ft.
	A limestone boulder 5X5 ft, 4 ft high, chiseled with cross (X) 4-1650, 4-3734, B.R. brs S 17° 30' W. 24.8 ft.
	No other bearings are available.
776.55	To Cor. No. 3, Sur. No. 1573, Vulcan No.2 lode, identical with Cor. No. 3 Sur. No. 1758 Red Oxide lode; also Crown Prince No. 8 lode, intersect line 1-2 Sur. No.3727, at S 9° 51' W. 234.17

MINERAL SURVEY NO. 3734

Feet

RED OXIDE No.4 Lode Cont'd.

1010.72 ft. from Cor.No.1 and N.9° 51' E.263.07 ft.from Cor.No.2
Cor.No.4 Sur. No. 1758, Red Oxide lode, brs. S. 5° 32'W. 507.58 ft.from Cor. No.3 thereof.
Gulch brs. northeasterly.

1030.72 To Cor. No.1, the place of beginning.

LODE LINES

As near as can be determined from present develop-
ments the veins of the location embraced in this claim
extend as follows from its discovery point:

Red Oxide No.4 lode S.75° 53'W.475 ft and N.75° 53'E.
555.72 ft.

AREA

Acres

Total Area Red Oxide No.4 lode - - - - - 13.957

Area in conflict with

Sur.No.1758 Red Oxide lode 1.395

Sur.No.3727 Crown Prince No.8 lode 5.136

Sur.No.3727 Crown Prince No.8 lode

(exclusive of its conflict with
Sur.No.1758 Red Oxide Lode) - - - 5.078

Sur.No.415 San Xavier lode - - - 1.276

Lot. No.38 San Xavier - - - - - 1.441

Lot No.38 San Xavier (exclusive
of its conflict with Sur.No.415
San Xavier) - - - - - 1.332

LOCATION

This Survey is located in S W 1/4 Sec. 2 T. 17 S., R.

12 E1

EXPENDITURE OF FIVE HUNDRED DOLLARS.

I certify that the value of the Improve-
ments upon, or for the benefit of the location em-
braced in said mining claim, by the claimant or its
grantors, is not less than Five Hundred Dollars, and
that the said improvements consist of -

MINERAL SUR. NO. 3734

EXPENDITURE OF FIVE HUNDRED DOLLARS CON'T

RED OXIDE No.4 Lode

No.1 The discovery tunnel, the face of which being the discovery point, is on the lode line 475 ft. from a point on line 1-2, 300 ft from Cor. No.2, 4X6 ft running S 22° W. 10 ft to mouth; at mouth is a cut 4 ft wide, 10 ft face, running S 22° W 12 ft to mouth.

Value of Cut and Tunnel. \$200.00

No.2 A shaft, the center of which brs. from Cor-No. 2, N 33° 15' E. 390 ft. 4X6 ft 8 ft Deep.

Value \$80.00

No.3 A cut, the mouth of which brs from Cor. No.2, N 24° 30' E. 260 ft. 4½ ft. wide 10 ft face, running N. 36° 30' E. 15 ft to face. From face is a tunnel 4X6 ft, running N. 36° 30' E. 5 ft to face.

Value of cut and Tunnel. \$150.

No.4. A cut the mouth of which brs from Cor. No. 2, N 27° E. 250 ft, 4½ ft wide, 10 ft face, running S 41° W 12 ft to face. From face is a tunnel 4X6 ft running S 41° W 5 ft to face.

Value of Cut and tunnel \$150

No.5 A cut, the mouth of which brs from Cor. No.2 N. 35° E. 270 ft, 4½ ft wide by 10 ft face, running S 35° W 15 ft to face. From face is a tunnel 4X6 ft running S 35° W 5 ft to face.

Value of cut and Tunnel \$150.

No.6 A cut the mouth of which brs from Cor.No.2 N. 19° E. 180 ft, 4 ft wide, 8 ft face, running S. 16° W. 12 ft to face.

Value \$80.00

The main working shaft (timbered) Sur. No. 1758

MINERAL SURVEY NO. 3734

EXPENDITURE OF FIVE HUNDRED DOLLARS
Cont'd

Red Oxide lode, brs from Cor. No. 1, S 60° 43' W. 792.6 ft., 6X8 ft, 500 ft deep, together with 1120 ft of drift.

Total value \$21,000.00

An undivided 1/6th interest is assigned to this claim.

At the 200 ft level is a drift 4X6 ft running N. 64° W, 60 ft; thence N. 58° W. 120 ft to face.

At the 312 ft level is a drift 4X 6 ft, running S 16° E. 20 ft to Sta.1; thence S 40° 30' E. 50 ft. to face. From Sta. 1 is a drift 4X6 ft, running N. 69° W. 280 ft to face.

At the 400 ft level is a drift 4X6 ft running N.26° 30' W. 50 ft to Sta.1; thence N.26° 30' W.10 ft to face. From Sta. 1 is a drift 4X6 ft running S.38° W 100 ft to face. From Sta 1 is another drift 4X6 ft running N.27° E. 20 ft. to face.

At the 500 ft level is a drift 4X6 ft running N. 28° W. 10 ft to Sta.1. Thence N. 66° 30' E. 20 ft to Sta. 3. Thence S 50° 30' E. 120 ft to face.

From Sta.1 is a drift 4X6 ft running S 46° W: 20 ft to Sta. 4, thence S 10° 30' E. 60 ft to Sta. 5 thence W. 180 ft to face.

This shaft is a practicable and feasible main working shaft for this claim; as by drifting and cross-cutting therefrom in different directions towards and under this claim, same may be advantageously developed and ore extracted therefrom, as the discovery point is about 600 ft above the present bottom of this shaft. This improvement is therefore a common improvement for the benefit of this claim and the two claims of Sur No. 1758, consisting of the Red Oxide and Wedge lodes; Also of the three claims of Survey No. 3730, consist-

MINERAL SURVEY NO. 3734

EXPENDITURE OF FIVE HUNDRED DOLLARS
Cont'd

ing of the Cresta Blanca, Red Oxide No. 2 and the Red Oxide No.3 lodes; all belonging to Claimant herein.

An undivided 1/6th interest in this improvement, Value \$3500.00, has been credited to each of the six above mentioned lodes.

INSTRUMENT

This Survey was made with a Gurley Mountain Transit. The courses were deflected from the true meridian as determined by direct solar observations. The distances were measured with a 500 ft steel tape.

REPORT.

The lode line of each location of this claim was run directly upon the ground, and the corners were established by running around the claims.

All tie lines were run directly upon the ground.

The 1/4 cor. bet. Secs. 2 and 3, T. 17 S.R. 12 E. consists of a limestone rock, 6X8 ins. showing 10 ins. above ground, chiseled with 1/4 on W. face.

A diligent search was made for 1/4 Cor. bet. Secs. 2 and 11 and I failed to find any evidence of same.

Sur. No. 3727, Crown Prince No. 8 lode, all corners consist of iron pipe with brass caps on top, properly set and stamped with Number of the corner and the Survey. I find all courses and distances to be correct.

Sur. No. 1650, Iron Mountain lode; All corners consist of limestone rock, properly set and chiseled with the number of the Corner and the Survey.

Line 3-4 fails to furnish the course and distance as approved (N 24° W. 600 ft) and same are properly

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REPORT Cont'd.

given in these field notes.

Sur. No. 1573, Vulcan No. 2 lode; All corners consist of limestone rock, properly set and chiseled with the number of the Corner and the Survey.

Lot No. 58 San Xavier lode; I fail to find any evidence of the original corners of this survey and its conflict was field calculated from the records.

Sur. No. 1758, Red Oxide lode; All Corners consist of limestone rock properly set and chiseled with the number of the Corner and the Survey, except Cor. No.4, which is a rock in place, chiseled with the Number of the Corner and the Survey.

Line 3-4 fails to furnish the course and distance as approved (N 5° 30' E. 508 ft).

Sur. No. 415, San Xavier lode; Cor. No. 5 consists of a limestone rock properly set, and chiseled 3-1650 on NE face, 3 R O No.4 - 3734 on the NW face, and P on the S face,

Cor. No.6 consists of a limestone rock properly set and chiseled 5 - 1758 on the N face; near it are 2 pine posts 4 ins. sq. 3½ ft above ground, both scribed NE Cor. W.EX. SX and NW Cor. SX. As I have no other evidence showing that either of the two above mentioned corners is the original Cor.No.6, I assumed Cor. No.5, Sur. No. 1758, Wedge lode, to be identical with this Cor.

Line 5-6 fails to furnish the course and distance as approved (S 81° W. 1500) and same is properly given in these field notes.

As there is no Notary Public, within a long distance, a great delay, expense and inconvenience would result from strict compliance with the rule. I

MINERAL SURVEY NO. 3734

REPORT, Cont'd.

therefore proceeded to administer the necessary oath.

ADJOINING CLAIMS.

This Survey is adjoined on the North by Sur.No. 3727, Crown Prince No.8 lode, and Sur.No. 1758 Red Oxide Lode; On the East by Sur. No. 1650 Iron Mountain Lode; On the South by Sur. No. 415 San Xavier lode; On the West by Sur. No. 1758, Red Oxide lode.

SOLAR OBSERVATIONS. *do not include in transcript*

Direct Solar Observations taken Sat. Jan. 8, 1921, at 4.06 PM, Solar time.

SUN BISECTED.

Lat 31° 58'

Lon. 111° 05'

Difference in time 11 h. 30 m.

Apparent declination 22° 16' 35" ✓

3 50 ✓

Dec'l 22° 12' 45" ✓

$$\sin \frac{1}{2}A = \sqrt{\frac{\sin (S-L)(S-H)}{\cos L \cos H}}$$

L = 31° 58'

H = 11° 26'

P = 112° 12' 45" ✓

2) 155° 35' 45" ✓

77° 48' 22" ✓

S - L = 45° 50' ✓

S - H = 66° 22' ✓

9.8557106 ✓

9.9619569 ✓

0.0714217 ✓

0.0087048 ✓

2) 19.8977940 ✓

9.9488970 ✓

= 62° 45' ✓

125° 30' ✓

180°

125° 30' ✓

S 54° 30' W = course of sun

78° 31' = Ang. to L from Sun

54° 30' ✓

S 24° 01' E ✓ Course of line

Set up at Cor. No.1 F.S. Cor. No.2.

FINAL OATHS FOR SURVEYS.

LIST OF NAMES.

A list of the names of the individuals employed by T.N. Stevens
 United States Mineral Surveyor, to assist in running, measuring, and marking the lines, corners, and
 boundaries described in the foregoing field notes of the survey of the mining claim of _____
 _____ San Xavier Extension Copper Company _____
 known as the RED OXIDE No. 4 lode _____
 and showing the respective capacities in which they acted.

- _____ Roberto Zazueta _____, *Chainman.*
- _____ _____, *Chainman.*
- _____ _____, *Axman.*
- _____ _____, *Flagman.*

FINAL OATHS OF ASSISTANTS.

~~Was~~ I, Roberto Zazueta _____
 and _____, do solemnly swear that ~~we~~ ^I assisted _____
T.N. Stevens _____, United States Mineral Surveyor, in marking the corners and surveying
 the boundaries of the mining claim of San Xavier Extension Copper Company _____

 known as the RED OXIDE No. 4 lode _____
 represented in the foregoing field notes as having been surveyed by said mineral surveyor and under his
 direction; and that said survey has been in all respects, to the best of ^{my} our knowledge and belief, faithfully
 and correctly executed, and the corner and boundary monuments established according to law and the instruc-
 tions furnished by the United States Surveyor-General for Arizona _____

- _____ Roberto Zazueta _____, *Chainman.*
- _____ _____, *Chainman.*
- _____ _____, *Axman.*
- _____ _____, *Flagman.*

Subscribed and sworn to by the above-named persons before me this 10th _____

day of January _____, 1921

T.N. Stevens
 U.S. Mineral Surveyor.

FINAL OATH OF U. S. MINERAL SURVEYOR.

I, T. N. STEVENS, U. S. Mineral Surveyor, do solemnly swear that, in pursuance of instructions received from the United States Surveyor General for Arizona, dated December 20, 1920, I have, in strict conformity to the laws of the United States, the official regulations and instructions thereunder, and the instructions of said Surveyor General, faithfully and correctly executed the survey of the Mining Claim of San Xavier Extension Copper Company, known as the RED OXIDE NO. 4 lode, situate in Pima Mining District, Pima County, Arizona, in Section 2, Township No. 17, Range No. 12 E. and designated as Survey No. 3734, as represented in the foregoing field notes, which accurately show the boundaries of said mining claim as distinctly marked by monuments on the ground, and described in the attached copy of the location certificate, which was received by me from the Surveyor General with said instructions, and that all the corners of said survey have been established and perpetuated in strict accordance with the law, official regulations and instructions thereunder; and I do further solemnly swear that the foregoing are the true and original field notes of said survey and my report therein, and that the labor expended and improvements made upon said mining claim by claimant or its grantors are as therein fully stated, and that the character, extent, location, and itemized value thereof are specified therein with particularity and full detail, and that no portion of said labor or improvements so credited to this claim has been included in the estimate of expenditures upon any other claim.

T. N. Stevens

U. S. Mineral Surveyor.

Subscribed and sworn to by the said T. N. STEVENS
U. S. Mineral Surveyor, before me Isabel M. Lauder, a Notary Public
in and for Pima County, Arizona this 10th
day of March, 19 21.

My Commission expires June 4 1924

Isabel M. Lauder

Notary Public Pima County,
Arizona.

U. S. SURVEYOR-GENERAL'S FINAL CERTIFICATE ON FIELD NOTES.

Department of the Interior,

OFFICE OF U. S. SURVEYOR-GENERAL,

Phoenix, Arizona,

May 28, 1921

I, U. S. Surveyor-General for DISTRICT OF ARIZONA,

do hereby certify that the foregoing transcript of the Field Notes, return and approval of the survey of the mining claim of

SAN XAVIER EXTENSION COPPER COMPANY

known as the RED OXIDE NO. 4 Lode,

situate in PIMA

Mining District, PIMA County, ARIZONA,

in Section 2, Township No. 17 S., Range No. 12 E., and

designated as Survey No. 3734, has been correctly copied from the originals on file in

this office; that said Field Notes furnish such an accurate description of said mining claim as will, if

incorporated into a patent, serve fully to identify the premises, and that such reference is made therein to natural objects or permanent monuments as will perpetuate and fix the locus thereof.

And I further certify that five hundred dollars' worth of labor has been expended or improvements made upon said mining claim by claimant or its grantors, and that said improvements

consist of 1 shaft, 5 cuts, 4 tunnels and a 1/6 interest in the

main working shaft on the Red Oxide lode, Sur. No. 1758. total

value \$4310.

and that no portion of said labor or improvements has been included in the estimate of expenditures upon any other claim.

I further certify that the plat thereof, filed in the U. S. Land Office at Phoenix, Arizona, is correct and in conformity with the foregoing Field Notes.

Frank P. Trott,

United States Surveyor-General for Arizona.

SURVEYOR GENERAL'S CERTIFICATE OF APPROVAL OF FIELD NOTES AND SURVEY OF MINING CLAIM

DEPARTMENT OF THE INTERIOR OFFICE OF U. S. SURVEYOR GENERAL

Phoenix, Arizona,

May 28, 1921

I, U. S. Surveyor General for DISTRICT OF ARIZONA,

do hereby certify that the foregoing and hereto attached Field Notes and Return of the Survey of the Mining Claim of

SAN XAVIER EXTENSION COPPER COMPANY,

, known as the

RED OXIDE NO. 4 Lode

situate in PIMA mining district,

PIMA County, ARIZONA,

in Section 2, Township No. 17 S., Range No. 12 E.,

G. & S. R. B. & M, designated as Survey No. 3734

executed by T. N. STEVENS, U. S. Mineral

Surveyor, January 8-10, 1921, under my instructions dated

December 20, 1920, have been critically examined and the necessary cor-

rections and explanations made, and the said Field Notes and Return, and the Survey they describe,

are hereby approved. The certified copy of the location certificate filed by the applicant for survey is

on file in this office and a true copy of said certified copy of said location certificate is included and made

a part of the transcript of the field notes.

[Handwritten signature]

U. S. Surveyor General for Arizona

UNITED STATES DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT
ARIZONA STATE OFFICE

9605 (942)
M.S. 3734

NOTICE OF CANCELLATION OF MINERAL SURVEY

The Red Oxide No. 4 lode, Mineral Survey No. 3734, located in sections 2, Township 17 South, Range 12 East, Gila and Salt River Meridian, Arizona, is hereby canceled.

This claim has not been filed with the Arizona State Office, Bureau of Land Management, in accordance with Section 314, 90 STAT. 2769, (43 U.S.C. 1744).

This cancellation was necessitated to facilitate a proposed land exchange with ASARCO Incorporated and to clear the record.

The Mineral Survey Plat should be noted as follows:

"Red Oxide No. 4 lode, M.S. 3734 was canceled February 20, 1992, by memo 9605 (942) M.S. 3734, which is now a part of the original field notes."

February 20, 1992
Date



Chief Cadastral Surveyor of Arizona

Mineral Survey No. 5734

No. 107
ARIZONA
Land District.

PLAT

OF THE CLAIM OF
San Xavier Extension Copper Company

KNOWN AS THE

RED OXIDE NO. 4 LODE

IN Pima COUNTY, MINING DISTRICT,
ARIZONA

Containing an Area of 200 Acres
Scales of 200 Feet to the inch.

Horizontal 13° 30' E., 39 PA. HT

SUBMITTED January 6 - 10 T. M. Stevens

U.S. Deputy Mineral Surveyor

The Original Field Notes of the Survey of the Mining Claim of
San Xavier Extension Copper Company
Known as the

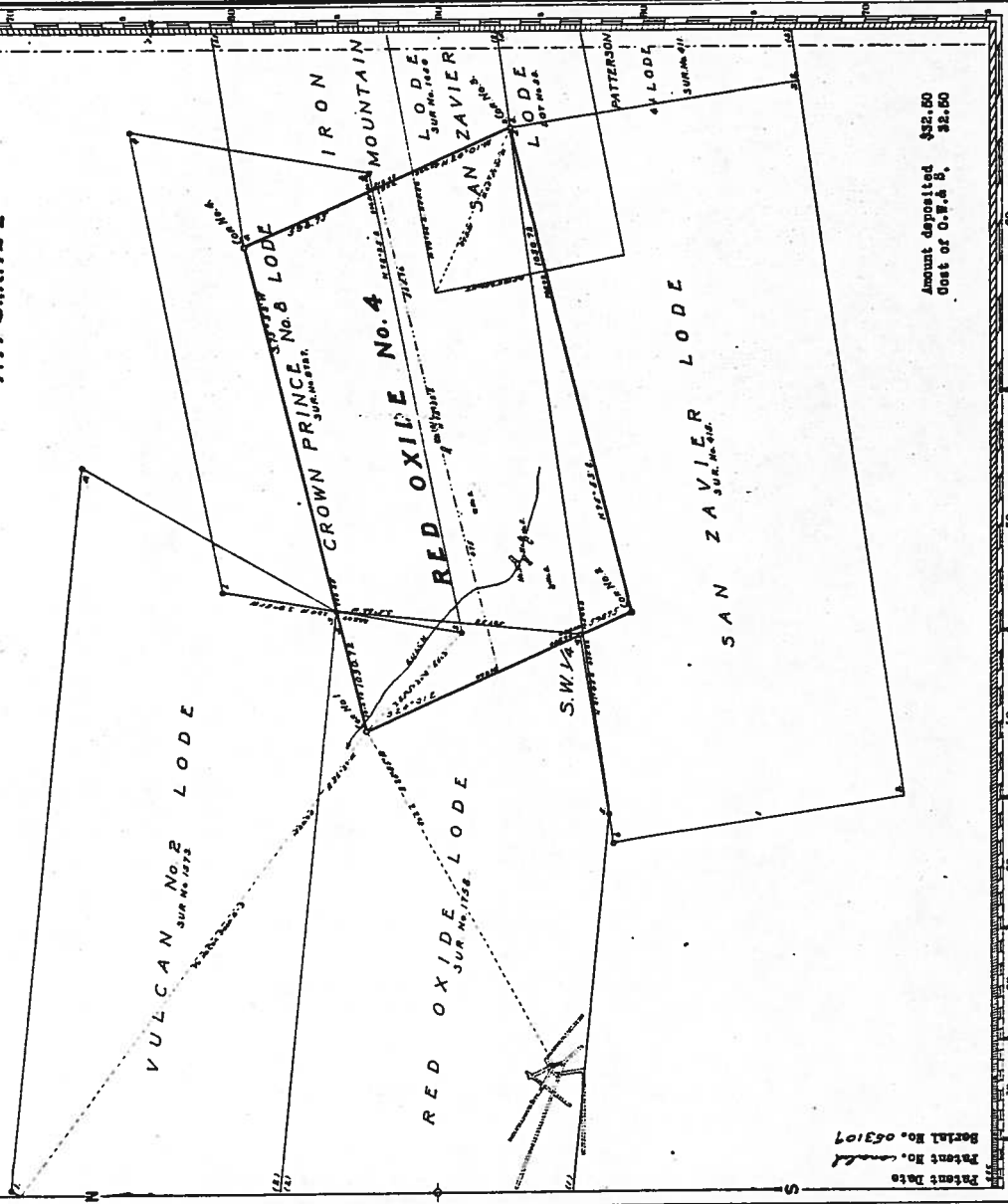
RED OXIDE NO. 4 LODE

from which this plat has been made under my direction, have been examined and approved, and are on file in this Office, and I hereby certify that they furnish such an accurate description of said Mining Claim as will, if incorporated into a plat, serve fully to identify the premises, and that such reference is made therein to natural objects or permanent monuments as will perpetuate and fix the locus thereof.
I further certify that five hundred Dollars worth of labor has been expended or improvements made upon said Mining Claim by claimant or 118 acres and that the location of said improvements is correctly shown upon this plat, and that no portion of said labor or improvements has been included in the estimate of expenditures upon any other claim.
And I further certify that this is a correct plat of said Mining Claim made in conformity with said original field notes of the survey thereof, and the same is hereby approved.

U.S. Surveyor General's Office,
Phoenix, Arizona,
M. A. F. 28, 1921
A. B. Z. O. H. A.

Red Oxide No. 4 lode, M.S. 3734 was canceled February 20, 1922, by memo 9605 (942) M.S. 3734, which is now a part of the original field notes.

Sec. 2,
T. 17 S., R. 12 E



Amount deposited \$32.50
Cost of O.W.A.B. \$2.50

Patent No. 053197
Serial No. 053197