

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT



MINERAL SURVEY NO. 4365

Arizona Land District.

FIELD NOTES

Of The Survey Of The Mining Claim Of

Randolph Jenks

Known As The

SANTA CRUZ and MOHAVE lode mining claims

Old Hat Mining District,

Pima County, Arizona

Section s 15 & 22, Township 11 S., Range 16 E., G&SRM

Surveyed under order dated February 25, 1952

by Ralph L. Motz
Mineral Surveyor.

Claims located 7th & 8th of May, 1943

Survey commenced March 15,, 1952

Survey completed March 17, 1952

Address of claimant's attorney, Frank W. Steel,
Valley National Bldg.,
Tucson, Arizona

DATES OF AMENDED LOCATIONS

January 21, 1952.

Survey No. 4365

This survey was made with a C. L. Berger & Sons precise transit, with horizontal limb 6.25 ins. diam., having two double opposite verniers, and full vertical circle 5 ins. diam., having one double vernier; the verniers read to one minute of arc; the eye-piece is equipped with a colored glass slide in a prismatic eye-piece for making direct observations upon the sun. The instrument was in good condition at the time of the survey, and all adjustments were in good order.

All azimuths in this record were determined by the method of deflection angles referred to the meridian determined by the following observation:-

March 15, 1952 at Cor. No. 2 of the Santa Cruz lode, in latitude $32^{\circ} 28' N.$, and longitude $110^{\circ} 42' W.$, I made a series of eight altitude observations upon the sun for azimuth at approximately equal time intervals, four each with the telescope in direct and reversed positions, observing opposite limbs of the sun, and reading the horizontal angle from Cor. No. 3 of the Santa Cruz lode northeast to the sun.

Mean time of observation, 105th

meridian standard time - - - - - 9h. 00m. AM

Declination of the sun at mean time

of observation - - - - - $1^{\circ} 58' 18'' S.$

Mean observed vertical angle to

sun's center - - - - - $33^{\circ} 10'$

Mean horizontal angle from reference

point to sun's center - - - - - $72^{\circ} 45' 30'' N-E$

True bearing to reference point

$S. 10^{\circ} 25' W.$

The lines were measured with a Keuffel & Esser steel tape, 100 feet in length, graduated to feet, tenths and hundredths of feet for the entire length, a Keuffel & Esser steel tape, 300 feet in length, graduated to feet, tenths and hundredths of feet for the entire length; a Lufkin steel tape, 25 feet in length, graduated to feet, inches and fractions of inches for the entire length. All tapes were compared with a Lufkin standard steel tape at the time of beginning the survey and found correct.

All lines and connections of this survey were run by direct methods.

The magnetic variation observed at each corner of the survey gave a uniform value of $13^{\circ} 30' E.$,

SANTA CRUZ lode.

At Cor. No. 1 of the Santa Cruz lode, situated on line 4-I of Survey No. 4274 Buster lode

Set an iron pipe, $3/4$ inches diam., 30 inches long, 18 inches in the ground, in a monument of stone, with brass cap, 3 inches square, 1 inch faces, mkd. SC-1-4365; from which

The $1/4$ section corner of sections 15 and 16, T. 11 S., R. 16 E., G. & S. R. M. bears $N. 50^{\circ} 33' 30'' W.$, 869.9 ft. dist., being an iron pipe with brass cap, firmly set and marked as described in the official record

Cor. No. 1 of the Buster lode; Survey No. 4274 bears $N. 57^{\circ} 55' W.$, 174.0 ft. dist.

A monument of rocks, 4 ft. high with 4 ft. base bears northerly 3 ft.

Feet	Thence S. 57° 55' E.,
544	Cross Geesman Wash, 10 ft. wide, course EAST
1326	Cor. No. 4 of the Buster lode and Cor. No. 2 of the Alder No. 3 lode, both of Survey No. 4274
1500	Cor. No. 2, identical with Cor. No. 3 of the Mohave lode of this survey and situated on line 1-2 of Survey No. 4274 Alder No. 3 lode
	Set an iron pipe, 3/4 inches diameter, 30 inches long, set 18 inches in the ground in a mound of stones, with brass cap, 3 ins. square with 1 inch faces, mkd. SC-2-M-3-4365; from which
	limestone rock in place, 15 x 19 ins., 6 ins. above ground bears S. 16° 02' W., 17.7 ft. dist., mkd. BO X SC-2-4365
	A limestone ledge, 35 x 65 ins., 49 ins. above ground bears N. 85° 09' W., 23.3 ft. dist., mkd. BO X SC-2-4365
	Thence S. 10° 25' W.,
322.8	Lode line, discovery point bears N. 57° 55' W., 10 ft. dist.
645.6	Cor. No. 3, identical with Cor. No. 2 of the Mohave lode of this survey
	Set an iron pipe, 3/4 ins. diam., 30 inches long, 16 ins. in the ground in a mound of stones, with brass cap, 3 ins. square, 1 inch faces, mkd. SC-3-M-2-4365; from which
	A monument of rocks, 4 ft. high, 4 ft. base bears southerly 3 ft.
	Thence N. 57° 55' W.,
1500	Cor. No. 4
	Set an iron pipe, 3/4 ins. diam., 30 ins. long, 18 ins. in the ground in a mound of stones, with brass cap, 3 ins. square, 1 inch faces, mkd. SC-4-4365; from which
	Cor. No. 2 of Survey No. 3501 Precious Metals lode bears N. 13° 30' E., 174.2 ft. dist.
	A monument of rocks, 4 ft. high, 4 ft. base bears northwesterly 3 ft.
	Thence N. 10° 25' E.,
172.1	Intersect line 2-3 of Survey No. 3501 Precious Metals lode at a point from which Cor. No. 2 bears N. 89° 08' E., 9.4 ft. dist.
200.1	Intersect line 1-2 of Survey No. 3501 Precious Metals lode at a point from which Cor. No. 2 bears S. 8° 58' E., 27.75 ft. dist.
215	Cross Geesman Wash, 10 ft. wide; course N. 85° E.
322.8	Lode line, discovery point bears S. 57° 55' E., 1490 ft. dist.

Survey No. 4365

Feet

645.6 Cor. No. 1 and place of beginning.

MOHAVE lode

At Cor. No. 1 of the Mohave lode

Set an iron pipe, 3/4 ins. diam., 30 ins., long, 18

ins. in the ground in a mound of stones, with brass cap, 3 ins. square, 1 inch faces, mkd. M-1-4365; from which

The 1/4 section corner of sections 15 and 22, T. 11 S., R. 16 E., G. & S. R. M. bears N. 73° 40' W., 477.2 ft., dist., being an iron pipe with brass cap firmly set and marked as described in the official record

Cor. No. 1 of Survey No. 4274 Alder No. 2 lode bears N. 30° 14' W., 225.5 ft. dist.

A monument of rocks, 4 ft. high, 4 ft. base, bears 3 ft. easterly

Thence N. 57° 55' W.,

1500 Cor. No. 2, identical with Cor. No. 3 of the Santa Cruz lode of this survey

Thence N. 10° 25' E.,

322.8 Lode line, discovery point bears S. 57° 55' E., 10 ft. dist.

645.6 Cor. No. 3, identical with Cor. No. 2 of the Santa Cruz lode of this survey

Thence S. 57° 55' E.,

1326 Cor. No. 1 of Survey No. 4274 Alder No. 3 lode and Cor. No. 3 of Survey No. 4274 Metal Reserve No. 3 lode

1500 Cor. No. 4, situated on line 2-3 of Survey No. 4274 Metal Reserve No. 3 lode

Set an iron pipe, 3/4 ins. diam., 30 ins. long, 18 ins. in the ground in a mound of stones, with brass cap, 3 ins. square, 1 inch faces, mkd. M-4-4365; from which

A monument of rocks, 4 ft. high, 4 ft. base, bears southeasterly 3 ft.

Thence S. 10° 25' W.,

220.2 Intersect line 1-2 of Survey No. 4274 Alder No. 2 lode at a point from which Cor. No. 1 bears S. 40° 25' W., 293.7 ft.

322.8 Lode line. Discovery point bears N. 57° 55' W., 1190 ft. dist.

559.3 Intersect line 4-1 of Survey No. 4274 Alder No. 3 lode at a point from which Cor. No. 1 bears N. 49° 35' W., 169.6 ft.

645.6 Cor. No. 1 and place of beginning.

AREAS

Acres

Total area, Santa Cruz lode	20.661
Area in conflict with	
Sur. No. 3501 Precious Metals lode	0.003
Total area, Mohave lode	20.661
Area in conflict with	
Sur. No. 4274 Alder No. 2 lode	0.572

LOCATION

This survey is located in the SE 1/4 and SW 1/4 of Section 15 and the NE 1/4 of Section 22, T. 11 S., R. 16 E., G. & S. R., M. 3 S. 3 E. 2

The survey of the Santa Cruz and Mohaves lodes is identical with the location or amended location as marked upon the ground.

EXPENDITURES

The improvements and the value of the labor and improvements made upon or for the benefit of each of the lode locations embraced in said mining claim by the claimant or his grantors are as follows:

- No. 1 The discovery shaft of the Santa Cruz lode, the center of which is on the lode line 10 ft. from a point on line 2-3, 322.8 ft. from Cor. No. 2; 4x6 ft. in size, 8 ft. deep
Value \$75
- No. 2 An open cut, the mouth of which bears S. 79° 30' W., 70 ft. from Cor. No. 2 of the Santa Cruz lode; 5 ft. wide, 8 ft. face, runs South 12 ft. to face
Value \$100
- No. 3 An open cut, the mouth of which bears N. 82° 30' W., 30 ft. from Cor. No. 2 of the Santa Cruz lode; 6 ft. wide, 8 ft. face, runs South 21 ft. to face
Value \$200
- No. 4 An open cut, the mouth of which bears S. 10° 25' W., 120 ft. from Cor. No. 2 of the Santa Cruz lode; 5 ft. wide, 8 ft. face; runs S. 10° 25' W., 15 ft. to face; at mouth of cut is a shaft 4x6 ft. in size, 50 feet deep. As this improvements is situated on both lode claims, a 1/2 interest is allotted to each
Value \$750; 1/2 interest \$375
- No. 5 An open cut, the mouth of which bears S. 19° W., 150 ft. from Cor. No. 2 of the Santa Cruz lode; 6 ft. wide, 8 ft. face, runs South 18 ft. to face
Value \$165
- No. 6 An open cut, the mouth of which bears S. 10° 25' W., 284 ft. from Cor. No. 2 of the Santa Cruz lode; 7 ft. wide, 10 ft. face runs S. 10° 25' W., 36 ft. to face. As this improvements is situated on both lode claims, a 1/2 interest is allotted to each
Value \$320, 1/2 interest \$160
- No. 7 A shaft, the center of which bears N. 4° 30' E., 35 ft. from Cor. No. 3 of the Santa Cruz lode; 4x6 ft. in size, 8 ft. deep
Value \$75

- No. 8 A trench, the east end of which bears N. 10° 25' E., 12 ft. from Cor. No. 3 of the Santa Cruz lode; 5 ft. wide, 6 ft. deep runs N. 80° W., 20 ft. to the west end
Value \$225
- No. 1 The discovery shaft of the Mohave lode, the center of which being the discovery point is on the lode line 10 ft. from a point on line 2-3, 322.8 ft. from Cor. No. 2; 4 x 6 ft. in size, 8 ft. deep
Value \$75
- No. 2 A shaft, the center of which bears S. 38° 15' E., 350 ft. from Cor. No. 3 of the Mohave lode; 4 x 6 ft. in size, 8 ft. deep
Value \$75
- No. 3 A shaft, the center of which bears S. 41° 30' E., 315 ft. from Cor. No. 3 of the Mohave lode; 4 x 6 ft. in size, 4 ft. deep
Value \$35
- No. 4 A trench, the west of which bears S. 8° 00' W., 150 ft. from Cor. No. 3 of the Mohave lode; 6 x 7 ft. in size, runs East 9 ft. to bend, thence N. 60° E., 17 ft. to the east end
Value \$500
- No. 5 An open cut, the mouth of which bears S. 2° 10' W., 122 ft. from Cor. No. 3 of the Mohave lode; 4 ft. wide, 8 ft. face, runs South 14 ft. to face
Value \$75
- No. 6 An open cut, the mouth of which bears N. 15° 30' E., 30 ft. from Cor. No. 2 of the Mohave lode; 5 ft. wide, 6 ft. face, runs S. 20° E., 22 ft. to face
Value \$125

OTHER CORNER DESCRIPTIONS AND SUPPLEMENTAL DATA

Sur. No. 3501 Precious Metals lode:- Cors. 1, 2 and 3 are stones, firmly set and properly marked. Lines 1-2 and 2-3 are correct as approved.

Sur. No. 4274 Buster lode:- Cors. 4 and 1 are stones firmly set and properly marked. Line 4-1 was found correct as approved. Alder No. 3 lode:- Cors. 1 and 2 are stones, firmly set and properly marked. Line 1-2 was found correct as approved. Metal Reserve No. 3 lode:- Cors. 2 and 3 are stones firmly set and properly marked. Line 2-3 was found correct as approved. Alder No. 2 lode:- Cors. 1, 2 and 4 are stones firmly set and properly marked. Lines 4-1 and 1-2 are correct as approved.

FIELD ASSISTANTS.

Jackson L. Clark	chairman
Gilbert Flewelling	axman

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

CERTIFICATE OF SURVEYOR

I, Ralph L. Motz, Mineral Surveyor,
 hereby certify upon honor that in pursuance of an order received from the Division
of Cadastral Engineering, at Albuquerque, New Mexico,
 dated February 25, 1952, I have faithfully and correctly executed the survey
 of the mining claim of Randolph Jenks
 known as the Santa Cruz and Mohave lode mining
claims, situate in Old Hat Mining District
Pima County, Arizona in Sections 15 and 22 T. 11 S., R. 16 E.,
Gila and Salt River Meridian, Arizona, and designated
 as Survey No. 4365 (State)
 which is represented in the fore-
 going field notes as having been executed by me and under my direction, and that said
 survey has been made in strict conformity with said order, the Manual of Instructions
 for the Survey of the Public Lands of the United States, and in the specific manner
 described in the foregoing field notes, and I do further certify that the labor ex-
 pended and improvements made upon or for the benefit of the lode
 location embraced in the said mining claim by claimant— or his grantors
 are fully stated in my report therein, and that the character, extent, location, and
 itemized value thereof are specified therein with particularity and full detail, and
 that no portion of, or interest in, said labor and improvements so credited to this
 claim has been included in the estimate of expenditures upon any other claim.

Bisbee, Arizona.

(Place)

May 17, 1952.

(Date)

Ralph L. Motz
 (Mineral Surveyor)

**CERTIFICATE OF APPROVAL OF FIELD NOTES AND SURVEY OF
MINING CLAIM**

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT
~~GENERAL LAND OFFICE~~
Division of Cadastral Engineering
~~PUBLIC LANDS OFFICE~~

At Albuquerque, New Mexico

August 27, 1952

I, Office Cadastral Engineer at Albuquerque, New Mexico

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

....., known as the
SANTA CRUZ and MOHAVE lodes

situate in Old Hat mining district,
Pima County, Arizona

in Sections 15 and 22....., Township No. 11 South....., Range No. 16 East
G&SRM Arizona....., designated as Survey No. 4365

executed by Ralph L. Motz....., Mineral
Surveyor, March 15 to 17, incl......, 1952, under my instructions dated

February 25....., 1952, have been critically examined and the necessary
corrections 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
included and made a part of these field notes.


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Geo. H. Well, Office Cadastral Engineer.