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UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

MINERAL SURVEY NO. 4406 A and B

Arizona Land District.

FIELD NOTES

Of The Survey Of The Mining Claim Of

H. M. Osborne

Known As The

Sue Lode and Sue Mill Site

Seneca Mining District,

Yuma County, Arizona

Sections 22 and 23, Township 10 North, Range 19 West

Surveyed under order dated April 16 and July 23, 1956

by R. L. Merritt
Mineral Surveyor.

Claim located Sue Lode Claim Dec. 20, 1898
Sue Mill Site March 19, 1884, 19

Survey commenced April 30, 1956

Survey completed November 16, 1956

Address of claimant H. M. Osborne
Parker, Arizona

DATES OF AMENDED LOCATIONS

Sue Lode Claim, January 1, 1910

Sue Mill Site, February 21, 1956

GPO 905664

This survey was made with a Gurley transit No. 50962, with a 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 eyepiece is equipped with a colored shade set in the dust shutter 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:

April 30, 1956, at a point N. 38° 23' W., 490 ft. from the center point line 3-4, Sue lode, in latitude 34° 11' 40" N., and longitude 114° 13' 22" W., I made a series of six altitude observations upon the sun for azimuth at approximately equal time intervals, three each with the telescope in direct and reversed positions, observing opposite limbs of the sun, and reading the horizontal angle from the lode line of the Sue lode to the right to the sun.

Mean time of observation, 105th meridian standard time	= 3.79^h p.m.
Declination of sun at mean time of observation	= 14°59'20"N.
Mean observed vertical angle to sun's center	= 42°25'20"
Mean horizontal angle from Sue lode line to sun's center	= 117°00'55"
True bearing of the Sue lode line	= N. 38°23'W.

The lines were measured with a Lufkin steel tape 500 feet in length, graduated every foot, the first and last foot being graduated to tenths and hundredths. The tape was compared with a Lufkin standard at the time of beginning the survey and found correct.

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

The magnetic declination observed at each corner of the survey gave a uniform value of 15° E.

Survey No. 4406 A

Feet

SUE LODE

At cor. No. 1 of the Sue lode.

Set an iron pipe, 2 ft. long, 3/4 ins. diam., 16 ins. in the ground, with a brass cap, mkd. X S-1-4406A; from which

The $\frac{1}{4}$ sec. cor. of Secs. 22 and 23, T. 10 N., R. 19 W., bears N. 54° 36' W., 242.66 ft. dist., an iron pipe 1 in. diam., 12 ins. above ground, firmly set, marked and witnessed as described in the official record.

An X on a porphyry rock in place, 12 x 16 ins., 10 ins. above the ground, bears N. 24° 07' E., 15.49 ft. dist., mkd. X BR S-1-4406 A.

Thence N. 51° 37' E.

Feet	
300.0	Lode line; discovery point bears S. 38° 23' E., 1160.0 ft. dist.
513.	Power line, bears WNW and ESE.
515.	Center of wash, 50 ft. wide, course WNW.
600.0	Cor. No. 2.
	Set an iron pipe, 2 ft. long, 3/4 ins. diam., 16 ins. in the ground, with a brass cap mkd. X S-2-4406 A.
	Thence S. 38° 23' E.
269.	Power line, bears WNW and ESE.
270.	Center of wash, course WNW.
543.	Power line, bears N. 7° E. and S. 7° W.
1500.0	Cor. No. 3.
	Set a porphyry stone, 24x12x5 ins., 16 ins. in the ground, mkd. X S-3-4406 A.
	A porphyry rock in place, 16 x 18 ins., 8 ins. above the ground, bears S. 65° 25' E., 36.49 ft. dist., mkd. X BR S-3-4406 A.
	Thence S. 51° 37' W.
85.0	Center of road, bears N. 24° 20' W. and S. 24° 20' E.
300.0	Lode line; discovery point bears N. 38° 23' W., 340.0 ft. dist.
600.0	Cor. No. 4.
	Set a porphyry stone, 24x8x5 ins., 16 ins. in the ground, mkd. X S-4-4406 A.
	A porphyry stone in place, 12 x 18 ins., 18 ins. above the ground, bears N. 67° 47' E., 38.25 ft. dist., mkd. X BR S-4-4406 A.
	Thence N. 38° 23' W.
1500.0	Cor. No. 1 and the place of beginning.

Survey No. 4406 B

SUE MILL SITE

At Cor. No. 1 of the Sue Mill Site.

Set a porphyry stone, 24x9x7 ins., 16 ins. in the ground, mkd. S M S-1-4406 B; from which

The 1/4 sec. cor. between Secs. 22 and 27, T. 10 N., R. 19 W., bears East 123.10 ft. dist., an iron pipe, one inch diam., with a brass cap, 18 ins. above the ground, firmly set, marked and witnessed as described in the official record.

~~Chains~~ Feet	
	Cor. No. 1, Sur. No. 4406 A, Sue lode, bears N. 49° 48' E., 3869.07 ft. dist.
	Raise a mound of stone, 3 ft. base, 3 ft. high, alongside the corner.
	Thence West
85.	Center of road, bears N. 25° 47' E., and S. 25° 47' W.
250.	Center of road, bears N. 21° 06' E., and S. 21° 06' W.
336.53	Set an iron post, 2 ft. long, 1½ ins. diam., 20 ins. in the ground, for witness Cor. No. 2, with brass cap mkd. WC-SMS-2-4406.B.
	Raise a mound of earth and stones around a wood post, 4 ft. long, 4 ins. sq., alongside the corner.
356.72	True point for Cor. No. 2, and point of reestablishment of the meander corner of secs. 22 and 27, at record distance West of the ¼ sec. cor., falls under concrete base of a chimney which is attached to the north side of a house.
	A corner of the location bears West, 35.81 ft. dist.
	Thence N. 57° 24' 50" W.
	Along a line normal to the center line of the Colorado River.
34.24	Cor. No. 3.
	Set an iron post, 2 ft. long, 1½ ins. diam., 20 ins. in the ground, with brass cap mkd. SMS-3-4406 B.
	Raise a mound of earth and stone around a wood post, 4 ft. long, 4 ins. sq., alongside the corner.
	Thence N. 24° 52' 50" E.
	Along the mean high water line of the Colorado River.
547.97	Cor. No. 4.
	Set an iron post, 2 ft. long, 1½ ins. diam., 20 ins. in the ground, with brass cap mkd. SMS-4-4406 B.
	Raise a mound of earth and stone around a wood post, 4 ft. long, 4 ins. sq., alongside the corner.
	Thence S. 86° 59' E.
	Along mean high water line of the Colorado River.
54.27	Cor. No. 5.
	Set an iron post, 2 ft. long, 1½ ins. diam., 20 ins. in the ground, with brass cap mkd. SMS-5-4406 B.
	Raise a mound of earth and stone around a wood post, 4 ft. long, 4 ins. sq., alongside the corner.
	Thence N. 75° 11' 30" E.

~~Chains~~ Feet	
	Along the mean high water line of the Colorado River.
81.73	Cor. No. 6.
	Set an iron post, 2 ft. long, 1½ ins. diam., 20 ins. in the ground, with brass cap mkd. SMS-6-4406 B.
	Raise a mound of earth and stones around a wood post, 4 ft. long, 4 ins. sq., alongside the corner.
	Thence N. 52° 32' W.
	Along the mean high water line of the Colorado River.
88.32	Cor. No. 7.
	Set an iron post, 2 ft. long, 1½ ins. diam., 20 ins. in the ground, with brass cap mkd. SMS-7-4406 B.
	Raise a mound of earth and stone around a wood post, 4 ft. long, 4 ins. sq., alongside the corner.
	Thence N. 29° 31' W.
	Along the mean high water line of the Colorado River.
43.73	Cor. No. 8
	Set an iron post, 2 ft. long, 1½ ins. diam., 20 ins. in the ground, with brass cap mkd. SMS-8-4406 B.
	Raise a mound of earth and stone around a wood post, 4 ft. long, 4 ins. sq., alongside the corner.
	Thence N. 28° 44' E.
	Along the mean high water line of the Colorado River.
46.87	Cor. No. 9
	Set an iron post, 2 ft. long, 1½ ins. diam., 20 ins. in the ground, with brass cap mkd. SMS-9-4406 B.
	Raise a mound of earth and stone around a wood post, 4 ft. long, 4 ins. sq., alongside the corner.
	Thence N. 80° 16' 10" E.
	Along the mean high water line of the Colorado River.
98.39	Cor. No. 10
	Set an iron post, 2 ft. long, 1½ ins. diam., 20 ins. in the ground, with brass cap mkd. SMS-10-4406 B.
	Raise a mound of earth and stone around a wood post, 4 ft. long, 4 ins. sq., alongside the corner.
	Thence N. 53° 38' W.
	Along the mean high water line of the Colorado River.

~~Chains~~ Feet	
61.15	Cor. No. 11
	Set an iron post, 2 ft. long, 1½ ins. diam., 20 ins. in the ground, with brass cap mkd. SMS-11-4406 B.
	Raise a mound of earth and stone around a wood post, 4 ft. long, 4 ins. sq., alongside the corner.
	Thence N. 1° 14' E.
	Along the mean high water line of the Colorado River.
167.74	Cor. No. 12
	Set an iron post, 2 ft. long, 1½ ins. diam., 20 ins. in the ground, with brass cap mkd. SMS-12-4406 B.
	Raise a mound of earth and stone around a wood post, 4 ft. long, 4 ins. sq., alongside the corner.
	Thence N. 10° 40' E.
	Along the mean high water line of the Colorado River.
96.89	Cor. No. 13.
	Set a porphyry stone, 30 x 12 x 7 ins., 16 ins. in the ground, mkd. X-SMS-13-4406 B.
	Cor. is 10 ft. east of the left bank of the Colorado River.
	Raise a mound of stone, 3 ft. base, 3 ft. high, alongside the corner.
	Thence East.
50.86	Cor. No. 14
	Set a porphyry stone 26 x 14 x 7 ins., 16 ins. in the ground, mkd. X-SMS-14-4406 B.
	Raise a mound of stone, 3 ft. base, 3 ft. high, alongside the corner.
	Thence S. 1° 42' 30" W.
422.	Center of road, bears N. 25° 45' E., and S. 25° 45' W.
690.	Center of road, bears N. 48° 27' W., and S. 48° 27' E.
865.	Center of road, bears N. 58° 09' W., and S. 58° 09' E.
950.	Power line bears N. 39° 38' W., and S. 39° 38' E.
982.87	Cor. No. 1 and the place of beginning.
	The Sue Mill Site contains 4.107 acres.

~~Chains~~ Feet	AREAS	Acres
	Total area, Sue lode	20.661
	Total area, Sue Mill site	4.107

LOCATION

Survey No. 4406 A is located in the NW¼ and SW¼ of Sec. 23, T. 10 N., R. 19 W., Gila and Salt River Meridian.

Survey No. 4406 B is located in Lot 4 of Sec. 22, T. 10 N., R. 19 W., Gila and Salt River Meridian.

The survey of the Sue lode is identical with the amended location as marked on the ground. The survey of the Sue Mill Site is wholly within the location as marked on the ground; Cors. Nos. 1, 13, and 14 are identical with corners of the location; line 2-3 was surveyed normal to the center line of the Colorado River for the protection of riparian rights of patented land in Sec. 27, and the west boundary was surveyed to conform with the mean high water line of the river.

EXPENDITURES

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

No. 1 The discovery cut of the Sue lode, the center of which being the discovery point, is on the center line 340.0 ft. from the center of line 3-4, 4 ft. wide, 6 ft. deep, running S. 51° 37' W., 20 ft., and N. 51° 37' E., 20 ft.
Value, $100.00

No. 2 A shaft, the center of which bears N. 16° 52' W., 592.0 ft. from Cor. No. 4, Sue lode, 6 x 8 ft., 100 ft. deep.
Value, $3000.00

No. 3 A tunnel, 4 x 6 ft. in size, the portal of which bears N. 18° 05' W., 567 ft. from Cor. No. 4, Sue lode, and runs S. 45° 30' W., 70 ft. to face.
Value, $1400.00

No. 4 A tunnel, 4 x 6 ft. in size, the portal of which bears N. 53° 17' W., 593 ft. from Cor. No. 3 Sue lode, and runs S. 10° W., 40 ft. to face.
Value, $600.00

No. 5 A tunnel, 4 x 6 ft. in size, the portal of which bears S. 38° 23' E., 285 ft. from Cor. No. 2 of the Sue lode and runs S. 10° W., 100 ft. to face.
Value, $1800.00

No. 6 A tunnel, 4 x 6 ft. in size, the portal of which bears S. 46° 17' E., 378 ft. from Cor. No. 2, Sue lode, and runs S. 30° W., 60 ft. thence S. 60° W., 75 ft.; thence South 150 ft. to face.
Value, $4000.00

No. 7 The center of a mined area, 18 x 18 ft., 10 ft. deep, bears N. 58° 10' W., 583 ft. from Cor. No. 3, Sue lode.
Value, $1000.00

Chains

OTHER IMPROVEMENTS

A plank ore bin, 10 x 14 ft., 6 ft. deep, the southeast corner of which bears N. 49° 30' W., 636 ft. from Cor. No. 3, Sue lode. The long side bears N. 20° W.
Claimant herein.

A plank ore bin, 10 x 18 ft., 4 ft. deep, the southeast corner of which bears N. 15° W., 157 ft. from Cor. No. 1, Sue Mill Site. The long side bears S. 62° 15' W.
Claimant herein.

OTHER CORNER DESCRIPTIONS AND SUPPLEMENTAL DATA

None.

FIELD ASSISTANTS

Name	Capacity
W. J. Cheek	Chainman
John Bowers	Chainman

	Chains			

Form 4-686
(March 1950)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

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CERTIFICATE OF SURVEYOR

Nov. 21, 1956

I, Richard L. Merritt,

Mineral Surveyor, hereby certify upon honor that in pursuance of an order received from the Office of Cadastral Engineer, at Phoenix, Arizona dated April 16-1956, I have faithfully and correctly executed the survey of the mining claim of H.M. Osborne, known as the Sue lode and Sue Millsite (Lode, placer, or mill site), situate in W½ sec. 23 and Lot 4 sec. 22, T. 10 N, R. 19 W, Gila and Salt River Meridian, Arizona (State), and designated as Survey No. 4406 A and B, which is represented in the foregoing 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 expended and improvements made upon or for the benefit of the lode (Lode or placer) location(s) embraced in the said mining claim by claimant(s) 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.

Prescott Arizona (Place)

Richard L. Merritt (Mineral Surveyor)

CERTIFICATE OF APPROVAL

Bureau of Land Management, Survey Office (Office)

Phoenix, Arizona (Place) Feb. 19 (Date), 1957

The foregoing field notes of mineral survey No. 4406 A&B, in W½ Sec. 23 and Lot 4 Sec. 22, T. 10 North, R. 19 West, G. & S.R. Meridian, Arizona (State), executed by R. L. Merritt, Mineral Surveyor, under order dated April 16 and July 23, 1956, having been critically examined and the necessary corrections made prior to their certification by the surveyor, the field notes and the survey therein described are hereby approved.

Everett H. Kimmell
Everett H. Kimmell

Office Cadastral Engineer (Title)

CERTIFICATE OF TRANSCRIPT

I CERTIFY that the foregoing transcript of field notes of the above described mineral survey No. _____ is a true copy of the original field notes.

_____

_____ (Title)

U. S. GOVERNMENT PRINTING OFFICE 16—61973-1