

UNITED STATES
DEPARTMENT OF THE INTERIOR
~~GENERAL LAND OFFICE~~
BUREAU OF LAND MANAGEMENT

MINERAL SURVEY NO. 4385

ARIZONA Land District.

FIELD NOTES

Of The Survey Of The Mining Claim Of

ARMON SANDERS and MYRTLE SANDERS

Known As The

COPPER CHIEF NO. 1, COPPER CHIEF NO. 2 and COPPER CHIEF NO. 3 lode claims

Stanley Butte Mining District,

Graham County, Arizona

Section s 1 and 6, Township 5 South, Range 18 East and
Amended 5 South, Range 19 East, G. & S.R.M.

Surveyed under/ instructions dated March 30, 19 54

by K.W. Hammes
Mineral Surveyor.

Claim located October 8, 1948

Survey commenced April 1, 1954

Survey completed June 15, 1954

Address of claimant P.O. Box 628, Globe, Arizona

DATES OF AMENDED LOCATIONS

Copper Chief No. 1 February 1, 1954

Copper Chief No. 2 February 1, 1954

Copper Chief No. 3 February 1, 1954

Date of original order for mineral survey, Nov. 6, 1953
Date of amended order for mineral survey, March 30, 1954

Survey No. 4385

This survey was made with a C.L. Berger and Sons Transit No. 11315, with horizontal limb 5.65 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 1, 1954, at Cor. No. 2 of the Copper Chief No. 3 in latitude $33^{\circ} 02' N.$, and longitude $110^{\circ} 27' W.$, I make 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 a reference point about 624 ft. southward SE. to the sun.

Mean time of observation, 105th meridian
standard time = $8^h 47^m$ A.M.

Declination of the sun at mean time of
observation = $4^{\circ} 30' 09''$

Mean observed vertical angle to sun's
center = $31^{\circ} 44'$

Mean horizontal angle from reference
point to sun's center = $126^{\circ} 34' 50''$

True bearing to reference point = $S. 53^{\circ} 32' 20'' W.$

The lines were measured with a Lufkin steel tape, 500 feet in length, graduated every foot for 500 ft., with the first and last foot graduated in tenths and hundredths, the tape was compared with a standard 100 ft. invar tape at the time of beginning of the survey and found correct.

All lines and connections of this survey were run by direct methods, as shown by the calculation sheets herewith submitted.

The magnetic declination observed at each corner of the survey gave a uniform value of $14^{\circ} 30' E.$

Feet

COPPER CHIEF NO. 3 LODE

At Cor. No. 1 of the Copper Chief No. 3 lode.

Set a yellow pine post, 48 ins. long, 4 ins. sq., 24 ins. in the ground, and in a mound of stones, mkd. CC3-1-4385; from which

The cor. of Ts. 4 and 5 S., Rs. 18 and 19 E., G. & S.R.M., Arizona, bears $N. 34^{\circ} 32' 40'' W.$, 241.56 ft. dist.; an iron post, 3 ins. diam., firmly set, marked and witnessed as described in the official record.

Thence $S. 52^{\circ} 27' 40'' E.$

- 250.00 Road, bears northerly and southerly.
- 350.00 Bottom of a gulch, drains S.
- 1500.00 Cor. No. 2, identical with Cor. No. 1 of the Copper Chief No. 1 lode of this survey.
- Set a yellow pine post, 48 ins. long, 4 ins. sq., 24 ins. in the ground, and in a mound of stones, mkd. CC3-2-CC1-1-4385.
- No bearing trees or bearing rocks available.

<p>... this survey was made with a G. L. Berger and Sons Transit No. 1111 with horizontal limb 2.65 ins. diam., having two levels opposite verniers, and full vertical circle 2 ins. diam., having a double vernier; the verniers read to one minute of arc; the eyepiece is equipped with a colored shade set in the glass 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.</p> <p>All bearings in this record were determined by the method of observation referred to the meridian determined by the following observations:</p> <p>At 10:15 A.M., at Cor. No. 1 of the Copper Chief No. 3, a latitude of 37° 21' N., and longitude 110° 57' W., I made a series of six altitudes observations upon the sun for a period of 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 a reference point about 200 feet distant to the sun.</p> <p>Mean time of observation, 10:28 meridian standard time</p> <p>Definition of the sun at mean time of observation</p> <p>Mean observed vertical angle to sun's center</p> <p>Mean horizontal angle from reference point to sun's center</p> <p>True bearing to reference point</p> <p>The lines were measured with a Linkin steel tape, 200 feet in length, stretched every foot for 200 ft., with the first and last foot graduated in tenths and hundredths; the tape was compared with a standard 100 ft. Invar tape at the time of beginning of the survey and found correct.</p> <p>All lines and connections of this survey were run by direct methods, as shown by the calculation sheets herewith submitted.</p> <p>The magnetic declination observed at each corner of the survey gave a uniform value of 14° 30' E.</p>	<p>... this survey was made with a G. L. Berger and Sons Transit No. 1111 with horizontal limb 2.65 ins. diam., having two levels opposite verniers, and full vertical circle 2 ins. diam., having a double vernier; the verniers read to one minute of arc; the eyepiece is equipped with a colored shade set in the glass 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.</p> <p>All bearings in this record were determined by the method of observation referred to the meridian determined by the following observations:</p> <p>At 10:15 A.M., at Cor. No. 1 of the Copper Chief No. 3, a latitude of 37° 21' N., and longitude 110° 57' W., I made a series of six altitudes observations upon the sun for a period of 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 a reference point about 200 feet distant to the sun.</p> <p>Mean time of observation, 10:28 meridian standard time</p> <p>Definition of the sun at mean time of observation</p> <p>Mean observed vertical angle to sun's center</p> <p>Mean horizontal angle from reference point to sun's center</p> <p>True bearing to reference point</p> <p>The lines were measured with a Linkin steel tape, 200 feet in length, stretched every foot for 200 ft., with the first and last foot graduated in tenths and hundredths; the tape was compared with a standard 100 ft. Invar tape at the time of beginning of the survey and found correct.</p> <p>All lines and connections of this survey were run by direct methods, as shown by the calculation sheets herewith submitted.</p> <p>The magnetic declination observed at each corner of the survey gave a uniform value of 14° 30' E.</p>	
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Invar tape at the time of beginning of the survey and found correct.</p> <p>All lines and connections of this survey were run by direct methods, as shown by the calculation sheets herewith submitted.</p> <p>The magnetic declination observed at each corner of the survey gave a uniform value of 14° 30' E.</p>	<p>... this survey was made with a G. L. Berger and Sons Transit No. 1111 with horizontal limb 2.65 ins. diam., having two levels opposite verniers, and full vertical circle 2 ins. diam., having a double vernier; the verniers read to one minute of arc; the eyepiece is equipped with a colored shade set in the glass 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.</p> <p>All bearings in this record were determined by the method of observation referred to the meridian determined by the following observations:</p> <p>At 10:15 A.M., at Cor. 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Invar tape at the time of beginning of the survey and found correct.</p> <p>All lines and connections of this survey were run by direct methods, as shown by the calculation sheets herewith submitted.</p> <p>The magnetic declination observed at each corner of the survey gave a uniform value of 14° 30' E.</p>

Survey No. 4385

Feet	
	Thence S. 53° 32' 20" W.
160.0	Gulch, drains ESE.
230.0	Road, bears WNW and ESE.
312.09	Lode line; discovery point bears N. 52° 27' 40" W., 435.00 ft. dist.
624.18	Cor. No. 3, identical with Cor. No. 4 of the Copper Chief No. 1 lode of this survey. Set a yellow pine post, 48 ins. long, 4 ins. sq., 24 ins. in the ground, and in a mound of stones, mkd. CC3-3-CCL-4-4385. No bearing trees or bearing rocks available.
	Thence N. 52° 27' 40" W.
1050.00	Cor. No. 1 of Copper Chief No. 2 lode of this survey.
1500.00	Cor. No. 4. Set a yellow pine post, 48 ins. long, 4 ins. sq., 24 ins. in the ground, in the ground, and in a mound of stones, mkd. CC3-4-4385. No bearing trees or bearing rocks available.
	Thence N. 53° 32' 20" E.
150.0	Gulch, winding course ESE.
312.09	Lode line; discovery point bears S. 52° 27' 40" E., 1065.00 ft. dist.
624.18	Cor. No. 1, and place of beginning.
COPPER CHIEF NO. 1 LODE	
	Beginning at Cor. No. 1 of the Copper Chief No. 1 lode, identical with Cor. No. 2 of the Copper Chief No. 3 lode of this survey; from which The cor. of Ts. 4 and 5 S., Rs. 18 and 19 E., G. & S.R.M., bears N. 50° 00' 05" W., 1731.44 ft. dist., previously described. Thence S. 52° 27' 40" E.
1500.00	Cor. No. 2. Set a yellow pine post, 48 ins. long, 4 ins. sq., 24 ins. in the ground, and in a mound of stones, mkd. CCL-2-4385. No bearing trees or bearing rocks available.
	Thence S. 53° 32' 20" W.
264.00	Gulch, drains ESE.
312.09	Lode line; discovery point bears N. 52° 27' 40" W., 360.00 ft. dist.
384.00	Road winds WNW and ESE.
624.18	Cor. No. 3.

Survey No. 4382

Feet

150.0	Corner, bearing NW and NE.	150.0	Corner, bearing NW and NE.
330.0	Recovery point bears N. 52° 27' 40" W., 105.0 ft. dist.	312.00	Recovery point bears N. 52° 27' 40" W., 105.0 ft. dist.
624.18	Corner No. 1, and place of beginning.	624.18	Corner No. 1, and place of beginning.
1020.00	Corner No. 2 of Copper Chief No. 1 line of this survey.	1020.00	Corner No. 2 of Copper Chief No. 1 line of this survey.
1500.00	Corner No. 3.	1500.00	Corner No. 3.
180.0	Corner, bearing NW and NE.	180.0	Corner, bearing NW and NE.
312.00	Recovery point bears S. 52° 27' 40" W., 105.0 ft. dist.	312.00	Recovery point bears S. 52° 27' 40" W., 105.0 ft. dist.
624.18	Corner No. 1, and place of beginning.	624.18	Corner No. 1, and place of beginning.
COPPER CHIEF NO. 1 LINE			
Beginning at Cor. No. 1 of the Copper Chief No. 1 line, identical with Cor. No. 2 of the Copper Chief No. 2 line of this survey; from which			
The cor. of Ta. 4 and 5, Sec. 18 and 19 T. 10 S. R. 1 E., bears N. 50° 00' 00" W., 171.44 ft. dist., previously described.			
180.0	Corner No. 2.	180.0	Corner No. 2.
312.00	Recovery point bears N. 52° 27' 40" W., 105.0 ft. dist.	312.00	Recovery point bears N. 52° 27' 40" W., 105.0 ft. dist.
624.18	Corner No. 3.	624.18	Corner No. 3.
1020.00	Corner No. 4.	1020.00	Corner No. 4.
1500.00	Corner No. 5.	1500.00	Corner No. 5.

Survey No. 4385

Feet	
	<p>Set a yellow pine post, 48 ins. long, 4 ins. sq., 24 ins. in the ground, and in a mound of stones, mkd. CCl-3-4385.</p> <p>No bearing trees or bearing rocks available.</p> <p>Thence N. 52° 27' 40" W.</p>
1050.00	Cor. No. 2 of the Copper Chief No. 2 lode of this survey.
1500.00	<p>Cor. No. 4, identical with Cor. No. 3 of the Copper Chief No. 3 lode of this survey.</p> <p>Thence N. 53° 32' 20" E.</p>
312.09	Lode line; discovery point bears S. 52° 27' 40" E., 1140.00 ft. dist.
624.18	Cor. No. 1, and place of beginning.
COPPER CHIEF NO. 2 LODGE	
	<p>Beginning at Cor. No. 1 of the Copper Chief No. 2 lode, being on line 3-4 of the Copper Chief No. 3 lode of this survey.</p> <p>Set a yellow pine post, 48 ins. long, 4 ins. sq., 24 ins. in the ground, and in a mound of stones, mkd. CC2-1-4385; from which</p> <p>The cor. of Ts. 4 and 5 S., Rs. 18 and 19 E., bears N. 0° 33' 25" E., 844.14 ft. dist.; previously described.</p> <p>Cor. No. 4 of the Copper Chief No. 3 lode of this survey, bears N. 52° 27' 40" W., 450.00 ft. dist.</p> <p>No bearing trees or bearing rocks available.</p> <p>Thence S. 52° 27' 40" E.</p>
1050.00	Cor. No. 3 of the Copper Chief No. 3 lode, identical with Cor. No. 4 of the Copper Chief No. 1 lode of this survey.
	Thence along line 4-3 of the Copper Chief No. 1 lode.
1500.00	Cor. No. 2.
	<p>Set a yellow pine post, 48 ins. long, 4 ins. sq., 24 ins. in the ground, and in a mound of stones, mkd. CC2-2-4385.</p> <p>No bearing trees or bearing rocks available.</p> <p>Thence S. 37° 32' 20" W.</p>
300.00	Lode line; discovery point bears N. 52° 27' 40" W., 525.00 ft. dist.
360.00	Gulch, drains ESE.
600.00	Cor. No. 3.
	<p>Set a yellow pine post, 48 ins. long, 4 ins. sq., 24 ins. in the ground, and in a mound of stones, mkd. CC2-3-4385.</p> <p>No bearing trees or bearing rocks available.</p> <p>Thence N. 52° 27' 40" W.</p>

Survey No. 4382

Feet		
02.18	Cor. No. 1, end place of beginning.	
312.00	Loc. line: discovery point bears S. 52° 27' 40" W., 1140.00 ft. dist.	
	Thence N. 23° 32' 20" W.	
1500.00	Cor. No. 2, identical with Cor. No. 1 of the Copper Chief No. 1	
1050.00	Cor. No. 3 of the Copper Chief No. 2, side of this survey.	
	Thence N. 52° 27' 40" W.	
	No bearing trees or bearing rocks available.	
	Set a yellow pine post, 48 ins. long, 4 ins. dia., in the ground, and in a mound of stones, mark. 022-1-4382.	
	Beginning of Cor. No. 1 of the Copper Chief No. 2 line, being on line 3-4 of the Copper Chief No. 2 side of this survey.	
	COPPER CHIEF NO. 2 LINE	
02.18	Cor. No. 1, end place of beginning.	
312.00	Loc. line: discovery point bears S. 52° 27' 40" W., 1140.00 ft. dist.	
	Thence N. 23° 32' 20" W.	
1500.00	Cor. No. 2, identical with Cor. No. 1 of the Copper Chief No. 1	
1050.00	Cor. No. 3 of the Copper Chief No. 2, side of this survey.	
	Thence N. 52° 27' 40" W.	
	No bearing trees or bearing rocks available.	
	Set a yellow pine post, 48 ins. long, 4 ins. dia., in the ground, and in a mound of stones, mark. 022-1-4382.	
	Beginning of Cor. No. 1 of the Copper Chief No. 2 line, being on line 3-4 of the Copper Chief No. 2 side of this survey.	

Survey No. 4385

Feet	
1500.00	Cor. No. 4. Set a yellow pine post, 48 ins. long, 4 ins. sq., 24 ins. in the ground, and in a mound of stones, mkd. CC2-4-4385. No bearing trees or bearing rocks available. Thence N. 37° 32' 20" E.
180.00	Gulch, drains ESE.
300.00	Lode line; discovery point bears S. 52° 27' 40" E., 975.00 ft. dist.
600.00	Cor. No. 1, and place of beginning.

AREAS

Acres

Total area, Copper Chief No. 3 lode	20.661
Total area, Copper Chief No. 1 lode	20.661
Total area, Copper Chief No. 2 lode	20.661

LOCATION

This survey is located in the NW $\frac{1}{4}$ Sec. 6, T. 5 S., R. 19 E., and the NE $\frac{1}{4}$ Sec. 1, T. 5 S., R. 18 E., G. & S.R.M.

The survey of the Copper Chief No. 3, Copper Chief No. 1, and Copper Chief No. 2 lodes, is identical with the respective amended locations as marked on 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 claimants or their grantors are as follows:

No. 1	The discovery cut of the Copper Chief No. 3 lode, the face of which being the discovery point, is on the lode line 435.00 ft. from the center of the end line 2-3; 18 ft. wide, 20 ft. face, running S. 50° W., 18 ft. Value of cut, \$1500.00
No. 1	The discovery cut of the Copper Chief No. 1 lode, the face of which being the discovery point, is on the lode line 360 ft. from the center of the end line 2-3; 5 ft. wide, 6 ft. face, runs south 16 ft. Value of cut, \$120.00
No. 2	A tunnel 5 x 7 ft. in size, the portal of which bears N.31° 36' 40" W. 658.69 ft. from Cor. No. 3, Copper Chief No. 1 lode, and runs S. 33° 27' W., 147 ft. to breast; also a tunnel starting 26 ft., S. 33° 27' W. from portal running S. 73° 02' W., 54.28 ft., thence S. 66° 58' W., 39.45 ft., thence S. 38° 49' W., 39.55 ft.; thence S. 9° 06' W., 53.70 ft.; thence S. 3° 16' W., 73.55 ft. Value, \$4100.00
No. 1	The discovery cut of the Copper Chief No. 2 lode, the face of which being the discovery point, is on the lode line 525 ft. from the center of the end line 2-3; 3 ft. wide, 8 ft. face, runs South 20 ft. Value of cut, \$120.00

Feet

1500.00

Set a yellow pine post, 18 ins. long, 4 ins. dia., in the ground, and in a mound of stones, and 1000-1885.

No bearing lines or bearing rocks available.

Thence N. 77° 32' 30" E.

180.00

180.00

100.00

Acres

THINGS

20.661

Total area, Copper Chief No. 1 lode

20.661

Total area, Copper Chief No. 1 lode

20.661

Total area, Copper Chief No. 2 lode

LOCATION

This survey is located in the NW Sec. 5, T. 2 S., R. 17 E., and the NE Sec. 1, T. 2 S., R. 18 E., S. 1 & 2.

The survey of the Copper Chief No. 1, Copper Chief No. 2, and Copper Chief No. 3 lodes, is identical with the respective amended locations as marked on the ground.

EXPLANATIONS

The improvements and the value of the lode and improvements are upon or for the benefit of each of the lode locations embraced in said mining claim by the claimants or their ancestors are as follows:

No. 1 The discovery cut of the Copper Chief No. 1 lode, the face of which being the discovery point, is on the lone line 100 ft. from the center of the end line 2-3; 12 ft. wide, 10 ft. face, running N. 70° 15' E. 10 ft. Value of cut, \$150.00

No. 1 The discovery cut of the Copper Chief No. 1 lode, the face of which being the discovery point, is on the lone line 100 ft. from the center of the end line 2-3; 12 ft. wide, 10 ft. face, running N. 70° 15' E. 10 ft. Value of cut, \$150.00

No. 2 A tunnel 2 1/2 ft. in size, the portal of which bears N. 70° 15' E. 10 ft. from the center of the end line 2-3; 12 ft. wide, 10 ft. face, running N. 70° 15' E. 10 ft. Value of cut, \$150.00

No. 1 The discovery cut of the Copper Chief No. 1 lode, the face of which being the discovery point, is on the lone line 100 ft. from the center of the end line 2-3; 12 ft. wide, 10 ft. face, running N. 70° 15' E. 10 ft. Value of cut, \$150.00

Survey No. 4385

No. 2	An open cut on line 1-2 of the Copper Chief No. 2 lode, from which Cor. No. 2 of the Copper Chief No. 2 lode bears S. 52° 27' 40" E., 11.87 ft. dist.; 23 ft. wide, 15 ft. face, and runs S. 37° W., 17 ft. Value, \$1300.00
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OTHER IMPROVEMENTS

None.

OTHER CORNER DESCRIPTIONS AND SUPPLEMENTAL DATA

There are no other claims adjoining the above named claims.

EXHIBIT TO REPORT

No. 1. In open end of line 1-1 of the copper sheet no. 1, foot 1
 No. 2. In open end of the copper sheet no. 2, foot 2
 No. 3. In open end of the copper sheet no. 3, foot 3
 No. 4. In open end of the copper sheet no. 4, foot 4
 No. 5. In open end of the copper sheet no. 5, foot 5
 No. 6. In open end of the copper sheet no. 6, foot 6
 No. 7. In open end of the copper sheet no. 7, foot 7
 No. 8. In open end of the copper sheet no. 8, foot 8
 No. 9. In open end of the copper sheet no. 9, foot 9
 No. 10. In open end of the copper sheet no. 10, foot 10

OTHER INFORMATION

THERE ARE NO OTHER CLAIMS JOINING THE ABOVE NAMED CLAIMS.

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

CERTIFICATE OF SURVEYOR

July 7, 19 54

I, K. W. Hammes

Mineral Surveyor, hereby certify upon honor that in pursuance of an order received from the Bureau of Land Management, at Albuquerque, New Mexico

dated March 30, 1954, I have faithfully and correctly executed the survey of the mining claim of Armon Sanders and Myrtle Sanders

known as the Copper Chief No. 1, Copper Chief No. 2 and Copper Chief No. 3 lode claims
(Lode, placer, or mill site)

situate in Stanley Butte Mining District Sections 1 and 6,

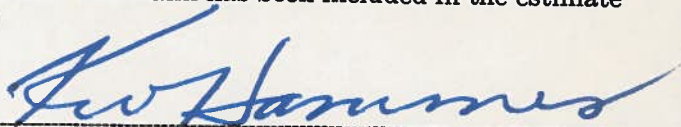
T. 5 S., R. S. 18 and 19 E., G. & S.R. Meridian, Arizona, and
(State)

designated as Survey No. 4385, 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 location(s) embraced in the said mining claim by
(Lode or placer)

claimant(s) or their 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.

Globe, Arizona
(Place)
July 7, 1954


(Mineral Surveyor)

CERTIFICATE OF APPROVAL

Survey Office
(Office)

Phoenix, Arizona July 11, 19 55
(Place) (Date)

The foregoing field notes of mineral survey No. 4385, in Secs. 1 and 6, T. 5 S., R. S. 18 and 19 E., G. & S.R. Meridian, Arizona, executed by K. W. Hammes, Mineral Surveyor,
(State)

under order dated March 30, 1954, 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

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.

