

MINERAL SURVEY No. 4230

Arizona

Land District

FIELD NOTES

OF THE SURVEY OF THE MINING CLAIM OF

F. L. Shire

KNOWN AS THE

HURRICANE, CYCLONE, TORNADO, STORM, and RAINY DAY lodes

Copper Mountain

Mining District,

Greenlee

County,

Arizona.

Section 17, Township 4 S., Range 29 E.

Surveyed under instructions dated November 22, 1939

By Ralph L. Motz

~~U.S.~~ Mineral Surveyor, GLO

Claim located June 23, 1936., 19

Survey commenced December 18, 1939

Survey completed December 24, 1939

Address of claimant's ~~F. L. Shire, Box 878, Clifton, Arizona~~

Attys., Gibbs & Gibbs, Phoenix, Arizona

DATES OF AMENDED LOCATIONS

Mineral Survey No. 4230 was made with a Gurley & Sons Precise transit, light mountain model, with horizontal limb 6.25 inches in diameter, having two double opposite verniers, and full vertical circle 5 inches in diameter, having one double vernier; the verniers read to one minute of arc; the eye piece is equipped with a prismatic eye piece with colored glass slide for making direct observations upon the sun. The instrument was in good condition at the time of survey and all adjustments were in good order. An a.m. altitude observation of the sun for azimuth, and at noon on the meridian for latitude, were made at Cor. No. 1 of the Rainy Day lode, the details of which observations are shown in the calculation sheets submitted herewith for examination. All azimuths in this record were referred to the true meridian thus determined, by the method of deflection angles and calculated courses.

The lines were measured with a Kauffel & Esser steel tape, 100 feet in length, graduated to feet, tenths and hundredths of feet for the entire length; a Kauffel & 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 $13^{\circ} 50'$ E.

STORM

Beginning at Cor. No. 1 of the (Rainy Day) lode,

Situated on line 4-1 Survey No. 3912 Southern Belle lode at a point from which Cor. No. 1 bears $S. 13^{\circ} 36'$ E., 395.72 ft. dist.

Set an iron pipe, 1 inch diameter, with brass cap 3 inches square, 3 feet long, set 24 inches in the ground, for Cor. No. 1, mkd. S-1-4230; from which

A monument of rocks, 3 ft. high, 3 ft. base, bears northeasterly 3 ft.

The $1/4$ Cor. between Secs. 17 and 20, T. & S., R. 29 E., G. & S. R. ~~XXXX~~ M., bears $S. 38^{\circ} 31'$ W., 684.8 ft. dist., an iron post 1 inch diameter with brass cap, properly set and marked as described in the official record.

Cor. No. 2 Sur. No. 3546, Dorcas lode, bears $N. 21^{\circ} 02'$ W. 150.06 ft. Thence $S. 71^{\circ} 06'$ W

22.8 Cor. No. 3 Survey No. 2858 Bacon Rind lode

155.0 Cross road, 10 feet wide, course southwesterly

610.2 Intersect line 4-1 Survey No. 3546 Dorcas lode at a point from which Cor. No. 1 bears $N. 48^{\circ} 26'$ W., 11.17 ft. dist.

1329.6 Cor. No. 2

Identical with the S. E. Cor. of the St. Joe No. 5 lode, unsurveyed

Situated on line 2-3 Survey No. 2858 Bacon Rind lode at $N. 71^{\circ} 06'$ E., 193.2 ft. from Cor. No. 2

	feet	
		Set An iron pipe, 1 inch diameter, with brass cap 3 inches square, 3 ft. long, set 24 inches in the ground for Cor. No. 2, mkd. S-2-4230; from which
		A monument of rocks, 3 feet high, 3 foot base, bears southwesterly 3 feet.
		A porphyry ledge, 32x60 ins., 31 inches above ground mkd. BR x S-2-4230 bears N. 53° 26' E., 5.1 ft., dist.
		A porphyry ledge, 39x87 ins., 12 inches above ground mkd. BR x S-2-4230 bears N. 12° 18' W., 41.0 ft., dist.
		Thence N. 13° 36' W.
		Intersect lode line
300.0		at original location for the west end center, being a monument of rocks, 3 feet high, 3 foot base
600.0		To Cor. No. 3
		Identical with the northeast corner of the St. Joe No. 5 lode, unsurveyed; the southeast corner of the St. Joe No. 10 lode, unsurveyed & Cor. No. 2 of the Rainy Day lode of this survey; where I
		Set an iron pipe, 1 inch diameter, with brass cap 3 inches square, 3 feet long, set 24 inches in the ground for Cor. No. 3, mkd. S-3-4230; RD-2-4230; from which
		A monument of rocks, 3 feet high, 3 foot base, bears northerly 3 feet.. No other bearings available.
		Thence N. -71° 06' E.
810.0		Cross road, 10 feet wide, course southeasterly
1329.6		To Cor. No. 4
		Identical with Cor. No. 1 of the Rainy Day lode of this survey, and situated on line 4-1 Survey No. 3912 Southern Belle lode, where I
		Set an iron pipe, 1 inch diameter with brass cap 3 inches square, 3 feet long, set 24 inches in the ground for Cor. No. 4, mkd. S-4-4230; RD-1-4230; from which
		A monument of rocks, 3 feet high, 3 foot base, bears northeasterly 3 feet. No other bearings available
		Thence S. 13. 36' E.
165.0		Cross road, 10 feet wide, course easterly
300.0		Intersect lode line at original location for the east end center, being a mound of rocks, 3 feet high, 3 foot base
479.1		Intersect line 2-3 Survey No. 3546 Dorcas lode, at a point from which Cor. No. 2 bears N. 48. 25' W., 34.0 ft. dist. Cor. No. 1 Survey No. 3546 Dorcas lode bears S. 58° 09' w 626.0 ft. from Cor. No. 2 thereof.
543.0		Cross road, 10 feet wide, course southwesterly
600.0		Cor. No. 1 and place of beginning.

Feet

RAINY DAY

Beginning at Cor. No. 1 of the Rainy Day lode, identical with Cor. No. 4 Storm lode of this survey, previously described, from which Sec. The 1/4 Cor. between Secs. 17 and 20, T. 4 S., R. 29 E., G. & S. R. ~~East~~ M., bears S. 14° 18' W., 1154.8 ft., dist., previously described

519.6 Cross road, 10 feet wide, course southeasterly

1329.6 To Cor. No. 2 Identical with Cor. No. 3 Storm lode this survey, previously described

Thence N. 13° 36' W. 0.000

300.0 Intersect lode line at original location for the west end center, being a mound of rocks, 3 feet high, 3 feet base

486.1 Intersect line 3-4 Survey No. 3376 Cuba Extension lode at a point from which Cor. No. 3 bears N. 58° 30' E., 273.4 ft. dist.

532.8 To Cor. No. 3

Set an iron pipe, 1 inch diameter, with brass cap 3 inches square, 3 feet long, set 24 inches in the ground for Cor. No. 3, mkd. RD-3-4230; from which

A monument of rocks, 3 feet high, 3 feet base, bears northeasterly 3 feet.

The original location for the northwest corner, being a mound of rocks, 3 feet high, 3 feet base, bears N. 13° 36' W., 67.2 ft. dist.

Thence N. 68° 14' E.

262.8 To Cor. No. 3 Survey No. 3376 Cuba Extension lode; Cor. No. 1 Hurricane lode this survey; and Cor. No. 2 Tornado lode this survey

358.0 Cross road, 10 feet wide, course southerly

1337.5 To Cor. No. 4

Set an iron pipe, 1 inch diameter, 3 feet long, with brass cap 3 inches square, 24 inches in the ground for Cor. No. 4, mkd. RD-4-4230; from which

A monument of rocks, 3 feet high, 3 feet base, bears southerly 3 feet. No other bearing objects available

Thence S. 13° 36' E.

300.0 Intersect lode line at original location for the east end center, being a mound of rocks, 3 feet high, 3 feet base.

314.0 To Cor. No. 3 Survey No. 3912 West End lode; Cor. No. 4 Survey No. 3912 Southern Belle lode; and intersect line 1-4 of the Tornado lode of this survey.

600.0 Cor. No. 1 and place of beginning.

HURRICANE

Beginning at Cor. No. 1 of the Hurricane lode,

Identical with Cor. No. 3 Survey No. 3376 Cuba Extension lode; Cor. No. 2 of the Tornado lode of this survey; and situated on line 3-4 of the Rainy Day lode this survey; where I set

Set An iron pipe 3 feet long, 1 inch diameter, with brass cap 3 inches square, 24 inches in the ground for Cor. No. 1., mkd CE-3-3376; H-1-4230; T-2-4230; from which

The 1/4 Cor. between Secs. 17 and 20, T. 4 S., R. 29 E., G. & S. R. ~~East~~ M., bears S^{33° 13'} E., 1558.4 ft. dist., previously described

Thence N. 31° 30' W.

Intersect lode line

300.0 at original location for the west end center, being a mound of rocks, 3 feet high, 3 foot base

570.0 Center gulch, 30 feet wide, course southerly

600.0 To Cor. No. 2
Identical with Cor. No. 2 Survey No. 3376 Cuba Extension lode; and situated on line 3-4 Survey No. 3376 Armada Extension lode; where I

Set an iron pipe, 3 feet long, 1 inch diameter, with brass cap, 3 inches square, 24 inches in the ground for Cor. No. 2, mkd. CE-2-3376; H-2-4230; from which

A monument of rocks, 3 feet high, 3 foot base, bears northwesterly 3 feet.

Granite ledge in place facing northeast, mkd. BR x H-2-4230 bears S. 58° 30' W., 7.0 ft.

Thence N. 58° 30' E.

20.0 Center gulch, 20 feet wide, course southerly

433.0 Cross road, 10 feet wide, course southeasterly

990.0 To Cor. No. 3 Armada Extension and Cor. No. 4 Armada lode, both of Survey No. 3376, being a redwood post, properly set and marked as described in the official record

1500.0 To Cor. No. 3

Identical with Cor. No. 3 of the Cyclone lode of this survey and situated on-line 3-4 Survey No. 3376 Armada lode; where I

Set an iron pipe, 3 feet long, 1 inch diameter, with brass cap 3 inches square, 24 inches in the ground, for Cor. No. 3, mkd. H-3-4230; C-3-4230; from which

A monument of rocks, 3 feet high, 3 foot base, bears northeasterly 3 ft. No other bearing objects available.

Thence S. 31° 30' E.

Intersect lode line

300.0 at original location for the east end center, identical with west end center of the Cyclone lode this survey, being a mound of rocks, 3 feet high, 3 foot base.

MINERAL SURVEY NO. 4230 - ARIZONA

Feet	
520.4	Intersect line 3-4 Survey No. 1654A Petaluma No. 3 lode at a point from which Cor. No. 3 bears S. 20° 24' W., 269.1 ft.
600.0	Cor. No. 4 Identical with Cor. No. 2 Cyclone lode and Cor. No. 3 Tornado lode both of this survey, where, Set an iron pipe 3 feet long, 1 inch diameter, with brass cap 3 inches square, 24 inches in the ground for Cor. No. 4, mkd. H-4-4230; C-2-4230; T-3-4230; from which A monument of rocks, 3 feet high, 3 foot base, bears northwesterly 3 ft. No other bearing objects available. Cor. No. 3, Sur. No. 1654A, Petaluma No. 3 lode, bears S. 36° 17' 30" W. 228.7 ft. Thence S. 58° 30' W.
101.5	Intersect line 3-4 Survey No. 1654 A. Petaluma No. 3 lode at a point from which Cor. No. 3 bears S. 20° 24' W., 140.1 ft. dist.
1387.0	Cross road, 10 feet wide, course southerly
1500.0	Cor. No. 1, and place of beginning. CYCLONE
	Beginning at Cor. No. 1 of the Cyclone lode, identical with location for east end center, on the lode line. Set an iron pipe, 3 feet long, 1 inch diameter, with brass cap 3 inches square, 24 inches in the ground for Cor. No. 1, mkd. C-1-4230; from which A monument of rocks, 3 feet high, 3 foot base, bears southerly 3 feet. The original location for the southeast corner, being a monument of rocks, 3 feet high, 3 foot base, bears S. 31° 30' E., 300.0 ft. dist. Sec. The 1/4 Cor. between Secs. 16 and 17, T 4 S., R. 29 E., G. & S. R. xxxx M., bears S. 88° 29' 30" E. 1812.0 ft. dist., an iron post 1 inch diameter with brass cap, properly set and marked as described in the official record. Thence S. 34° 11' W.
728.3	To Cor. No. 2 Identical with Cor. No. 4 Hurricane lode this survey, previously described Thence N. 31° 30' W.
79.6	Intersect line 3-4 Survey No. 1654 A Petaluma No. 3 lode, at a point from which Cor. No. 4 bears N. 20° 24' E., 1211.1 ft. dist.
300.0	Intersect lode line at original location for the west end center, identical with east end center of the Hurricane lode this survey, previously described
600.0	To Cor. No. 3

Feet	Identical with Cor. No. 3 of the Hurricane lode this survey, previously described.
	Thence N. 58° 30' E.
663.7	To Cor. No. 4
	Situated on line 3-4 Survey No. 3376 Armada lode, at a point from which Cor. No. 3 bears N. 58° 30' E., 326.3 ft., and on line 3-4 Survey No. 1654 A Petaluma No. 3 lode at a point from which Cor. No. 4 bears N. 20° 24' E., 367.7 ft. dist.
	Set an iron pipe, 3 feet long, 1 inch diameter, with brass cap 3 inches square, 24 inches in the ground for Cor. No. 4, mkd. C-4-4230; from which a
	Mound of rocks 3 feet high, 3 foot base, bears northerly 3 ft. No other bearing objects available.
	Thence S. 31° 30' E.
300.0	Cor. No. 1 and place of beginning.
	TORNADO
	Beginning at Cor. No. 1 of the Tornado lode,
	Set an iron pipe, 3 feet long, 1 inch diameter, with brass cap, 3 inches square, 24 inches in the ground for Cor. No. 1, mkd. T-1-4230; from which
	A monument of rocks, 3 feet high, 3 foot base, bears northwesterly 3 feet.
	Sec.
	The 1/4 Cor. between Secs. 17 and 20, T 4 S, R 29 E., G. & S. R. Block M., bears S. 17° 43' E., 1109.1 ft. dist., previously described
	Thence N. 64° 25' W.
	Intersect lode line at
306.7	original location for the west end center, being a mound of rocks, 3 feet high, 3 foot base
452.0	Cross road, 10 feet wide, course southerly
572.4	Cor. No. 2
	Identical with Cor. No. 1 Hurricane lode this survey, previously described
	Thence N. 58° 30' E.
113.0	Cross road, 10 feet wide, course southerly
1398.5	Intersect line 3-4 Survey No. 1654 A Petaluma No. 3 lode, at a point from which Cor. No. 3 bears S. 20° 24' W., 140.1 ft. dist.
1500.0	To Cor. No. 3
	Identical with Cor. No. 4 Hurricane lode this survey, previously described
	Thence S. 64° 25' E.
	Intersect lode line at original location for the east end center, and
265.7	Intersect line 2-3 Survey No. 1654 A Petaluma No. 3 lode at a point from which Cor. No. 3 bears S. 79° 29' W., 381.4 ft. dist. Also intersect line 3-4 Survey No.

MINERAL SURVEY-NO. 4230 - ARIZONA

Feet	3912 West End lode, at a point from which Cor. No. 3 bears S. 37° 49' W., 728.8 ft. dist.
572.4	To Cor. No. 4 Set an iron pipe, 3 feet long, 1 inch diameter; with brass cap 3 inches square, 24 inches in the ground for Cor. No. 4, mkd. T-4-4230; from which A monument of rocks, 3 feet high, 3 foot base, bears southerly 3 feet. No other bearing objects available Thence S. 58° 30' W.
848.4	To Cor. No. 3 West End lode and Cor. No. 4 Southern Belle lode, both of Survey No. 3912. Also intersect line 4-1 Rainy Day lode this survey, at a point from which Cor. No. 4 bears N. 13° 36' W., 314.0 ft. dist.
1500.0	Cor. No. 1 and place of beginning.

LODE LINES.

The presumed course of the vein of each of the several lode locations embraced in this survey, counted from the respective points of discovery, is as follows:-

- Storm lode, S. 71° 06' W., 70 ft.; and N. 71° 06' E., 1259.6 ft.
- Rainy Day lode, N. 71° 06' E., 440 ft.; and S. 71° 06' W., 889.6 ft.
- Hurricane lode, N. 58° 30' E., 700 ft.; and S. 58° 30' W., 800 ft.
- Cyclone lode, S. 58° 30' W., 200 ft.; and N. 58° 30' E., 463.7 ft.
- Tornado lode, N. 58° 30' E., 375 ft.; and S. 58° 30' W., 1125 ft.

LOCATION

This survey is located in ~~the~~ Lots 4, 5, 7, and 8 of Sec. 17, T. 4 S., R 29 E., G. & S. R. ~~Block~~ and Cyclone

The survey of the Storm, Hurricane, ~~and~~ Tornado lodes is identical with the respective locations as marked on the ground. ~~or within~~

AREAS.

	acres.
Total area, Storm lode - - - - -	18.236
Area in conflict with	
Survey No. 3546 Dorcas lode - - - - -	1.154
Total area, Rainy Day lode - - - - -	17.215
Area in conflict with	
Survey No. 3376 Cuba Extension lode - - - - -	0.139
Total area, Hurricane lode - - - - -	20.661
Total area, Cyclone lode - - - - -	6.856

MINERAL SURVEY NO. 4230 - ARIZONA

	Area in conflict with	acres
	Survey No. 1654 A Petaluma No. 3 lode - - - -	2.892 ^x
	Total area, Tornado lode - - - - -	16.546
	Area in conflict with	
	Survey No. 1654 A Petaluma No. 3 lode - - - -	0.786 ^x
	Survey No. 3912 West End lode - - - - -	2.507 [^]
	Rainy Day lode, this survey - - - - -	7.428
	Total area, Hurricane lode - - - - -	20.661
	Area in conflict with	
	Survey No. 1654 A Petaluma No. 3 lode - - - -	0.093 [^]

EXPENDITURE OF \$500

I certify that 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 is not less than \$500, and that said improvements consist of:-

STORM.

No. 1 The discovery cut of the Storm lode, the face of which being the discovery point, is on the lode line 70 ft. from the west end center; 4 feet wide, 15 ft. face, runs N. 70° E., 22 ft. to face and portal of tunnel, 4x6 ft. in size, running N. 70° E., 22 ft. to pt., thence N. 30° E., 25 ft. to breast.

Value of cut and tunnel - \$620

RAINY DAY.

No. 1 The discovery cut of the Rainy Day lode, the face of which being the discovery point is on the lode line 440 ft. from the east end center; 4 ft. wide, 10 ft. face, runs N. 45° E., 16 ft. to face

Value \$65

No. 2 An open cut, the mouth of which bears N. 55° E., 50 ft. from the west end center of the Storm lode; 4 feet wide, 12 ft. face, runs S. 77° W., 30 ft. to face

Value \$ 150

No. 2 An open cut, the mouth of which bears S. 89° 02' E., 650 ft. from Cor. No. 3 of the Rainy Day lode; 4 ft. wide, 10 ft. face, runs N. 10° E., 12 ft. to face and portal of tunnel, 4x6 ft. in size, running N. 10° E., 14 ft. to point, thence N. 50° E., 27 ft. to point; from this point tunnel runs N. 80° E., 31 ft. to breast, and N. 10° E., 30 ft. to second breast.

Value of Open cut and tunnel \$1080

This improvement is in the course of construction for the development of the Rainy Day, Tornado, Hurricane and Cyclone lodes of this survey.

The surface rises rapidly to the north and east from the portal of the tunnel and the extension in its present course, with necessary laterals, affords a practical and economical means of developing each of the stated lodes at depth. An undivided one-fourth interest in this improvement has been allotted to each the Rainy Day, Hurricane, Tornado, and Cyclone lodes. Value of one-fourth interest, \$270.00 - HURRICANE.

No. 1 The discovery cut of the Hurricane lode, the face of which being the discovery point is on the lode line 700 feet from the east end center; 4 feet wide; 10 ft. face;

MINERAL SURVEY NO. 4230 - ARIZONA

2

- runs North 20 ft. to face, at which is a shaft 4x7 ft., 8 ft. deep
Value of open cut and shaft \$100
- No. 2 An open cut, the mouth of which bears S. 59° 45' W., 370 ft. from Cor. No. 4 of the Hurricane lode; 6 ft. wide, 12 ft. face, runs North 14 ft. to face and portal of tunnel 5x6 ft. in size, running North 9 ft. to breast
Value of open cut and tunnel \$175
- CYCLONE
- No. 1 The discovery shaft of the Cyclone lode, the center of which being the discovery point is on the center line 200 ft. from the west end center; 4x6 ft. in size, 8 ft. deep
Value \$50
- TORNADO
- No. 1 The discovery shaft of the Tornado lode, the center of which being the discovery point is on the center line 375 ft. from the east end center; 4x6 ft. in size, 8 ft. deep
Value \$50
- No. 2 An open cut the mouth of which bears S. 39° 00' W., 265 ft. from Cor. No. 3 of the Tornado lode; 4 ft. wide, 10 ft. face, runs S. 65° E., 15 ft. to face
Value \$60
- No. 3 An open cut, the mouth of which bears S. 50° 14' W., 488 ft. from Cor. No. 3 of the Tornado lode; 4 ft. wide, 10 ft. face, runs S. 35° E., 15 ft. to portal of tunnel 4x7 ft. in size running S. 35° E. 74 ft. to breast
Value of open cut and tunnel, \$300.
This tunnel has been run for the benefit of the Tornado and Rainy Day lodes of this survey.
The surface rises rapidly to the south from the portal of the tunnel and the extension in its present course, will soon enter the Rainy Day lode.
An undivided one-half interest in this improvement has been allotted to each the Tornado and Rainy Day lodes of this survey.
Value of one-half interest, \$400.
- No. 4 An open cut, the mouth of which bears S. 53° 45' W., 350 ft. from Cor. No. 3 of the Tornado lode; 5 ft. wide, 12 ft. face, runs N. 30° E., 12 ft. to face and portal of tunnel, 4x7 ft. in size, running N. 30° E., 82 ft. to breast
Value of open cut and tunnel \$900
Value of one-third interest \$300
- This tunnel has been run for the benefit of the Tornado, Hurricane and Cyclone lodes of this survey.
The surface rises rapidly to the north and east from the portal of the tunnel and the extension in its present course, affords a practical and economical means of developing each of the stated lodes at depth.
An undivided one-third interest in this improvement has been allotted to each the Tornado, Hurricane, and Cyclone lodes of this survey.
Value of one-third interest, \$300.
- OTHER IMPROVEMENTS.
- A cut, 6 ft. wide, the mouth of which bears N. 43° 10' E. 93 ft., from the west end center of the Storm lode; runs East 35 ft., to 18 ft. face and portal of tunnel, 4x6 ft. in size, running East 60 ft. to breast.
- A cut, 5 ft. wide, the mouth of which bears N. 64° 03' E., 330 ft. from Cor. No. 2 of the Tornado lode; runs East 15 ft., to 6 ft. face. At face is shaft 5x6 ft., 11 ft. deep.
- A cut, 4 ft. wide, the mouth of which bears S. 55° 25' W., 672 ft., from Cor. No. 3 of the Tornado lode; runs

01 11

MINERAL SURVEY NO. 4230 - ARIZONA

East 14 ft. to 12 ft. face, and portal of tunnel, 4x6 ft. in size, running East 21 ft. to breast; at breast is drift, 4x6 ft. in size, running N. 45° E., 10 ft. to breast.

A: cut 5 ft. wide, the mouth of which bears S. 46° 52' W., 318 ft. from Cor. No. 3 of the Tornado lode; runs South 20 ft., to 12 ft. face and portal of tunnel, 4x7 ft. in size, running South 88 ft. to breast.

Claimant of each unknown.

OTHER CORNER DESCRIPTIONS.

Sur. No. 1654 A Petaluma No. 3 lode: Cors. Nos. 3 and 4 are posts properly set and marked. Cor. No. 2 is a mound of rocks, post missing.

Sur. No. 3546 Dorcas lode; Cors. Nos. 1 and 2 are mounds of rocks, posts missing. Cors. Nos. 3 and 4 are posts properly set and marked.

Sur. No. 3376 Armada lode; Cors. Nos. 3 and 4 are posts properly set and marked. Armada Extension lode; Cors. 3 and 4 are posts properly set and marked. Cuba Extension lode:- Cors. Nos. 3 and 4 are posts properly set and marked. Cor. No. 2 was a mound of rocks post missing. Cors. Nos. 2 and 3 have been replaced with iron pipes with brass caps.

Sur. No. 3912 Southern Belle lode: Cor. Nos. 1 and 4 are posts properly set and marked. West End lode: Cor. No. 3 is post properly set and marked. Cor. No. 2 is a mound of rocks, post missing.

Sur. No. 2858 Bacon Rind lode:- Cor. No. 2 is a post properly set and marked. Cor. No. 3 is a mound of rocks post missing.

REPORT.

I find the tie from Cor. No. 1, Sur. No. 3912 Southern Belle lode to the 1/4 Sec. Cor. Secs. 17 and 20, to be S. 73° 46' W. 541 ft. instead of S. 73° 46' W. 441 ft. as reported in the official returns of Sur. No. 3912.

UNITED STATES
DEPARTMENT OF THE INTERIOR
GENERAL LAND OFFICE

FINAL OATHS FOR SURVEYS

LIST OF NAMES

A list of the names of the individuals employed by Ralph L. Motz

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 F. L. SHIRE

known as the HURRICANE, CYCLONE, TORNADO, STORM, and RAINY DAY lodes and showing the respective capacities in which they acted.

- I. A. Welch , *Chainman.*
- G. De Grazia , *Chainman.*
- Enrico Tomola , *Arman.*
- , *Flagman.*

FINAL OATHS OF ASSISTANTS

We, I. A. Welch, G. De Grazia

and Enrico Tomola , do solemnly swear that we assisted

Ralph L. Motz , ^{G.L.O.,} ~~United States~~ Mineral Surveyor, in marking the corners and surveying the boundaries of the mining claim of F. L. SHIRE

known as the HURRICANE, CYCLONE, TORNADO, STORM, and RAINY DAY lodes , 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 our knowledge and belief, faithfully and correctly executed, and the corner and boundary monuments established according to law and the instructions furnished by the Office Cadastral Engineer, at Phoenix, Arizona

- I. A. Welch , *Chainman.*
- G. De Grazia , *Chainman.*
- Enrico Tomola , *Arman.*
- , *Flagman.*

Subscribed and sworn to by the above-named persons before me this 8th

day of January , 1940

H. E. East
Notary Public



My Comm. Exp. Dec. 27-1942,

FINAL OATH OF ~~U.S.~~ MINERAL SURVEYOR, G.L.O.

I, Ralph L. Motz....., ~~U.S.~~ Mineral Surveyor, G.L.O.

do solemnly swear that, in pursuance of instructions received from the Office Cadastral Engineer, at Phoenix, Arizona....., dated November 22, 1939.....

I have, in strict conformity to the laws of the United States, the official regulations and instructions thereunder, and the instructions of said Office Cadastral Engineer, faithfully and correctly executed the survey of the mining claim of

F. L. Shire....., known as the Hurricane, Cyclone, Tornado, Storm and Rainy Day lodes.....

situate in Copper Mountain..... Mining District, Greenlee..... County, Arizona....., in Section

17....., Township No. 4 S......, Range No. 29 E......

and designated as Survey No. 4230....., 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 Office Cadastral Engineer with said instructions, and that all 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 his..... 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.

Ralph L. Motz
(~~U.S.~~ Mineral Surveyor) G.L.O.

Subscribed and sworn to by the said Ralph L. Motz.....

~~U.S.~~ Mineral Surveyor, ^{G.L.O.} before me H. Earl Rogge, Notary Public.....

..... this 8th.....

day of January....., 19 40

H. Earl Rogge
Notary Public, in and for the
County of Greenlee, State of Arizona.

My commission expires Dec. 27, 1942.

OFFICE CADASTRAL ENGINEER'S FINAL CERTIFICATE ON FIELD NOTES

United States
Department of the Interior
GENERAL LAND OFFICE
PUBLIC SURVEY OFFICE

Phoenix, Arizona

April 15, 1940

I, Office Cadastral Engineer, at Phoenix, Arizona

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

F. L. Shira

known as the HURRICANE, CYCLONE, TOBNADO, STORM, and RAINY DAY lodes

situate in Copper Mountain

Mining District Greenlee County Arizona

in Section 17, Township No. 4 S., Range No. 29 E., and

designated as Survey No. 4230, 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.

I further certify that Five Hundred Dollars worth of labor has been expended or improvements made upon, or for the benefit of, each location embraced in said mining claim by claimant or his grantors, and that said improvements consist of 9 cuts, 5 tunnels, and 3 shafts, total value \$4050.00

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 District Land Office at Phoenix, Arizona is correct and in conformity with the foregoing Field Notes.

Sherman C. Fiske

Office Cadastral Engineer.

CERTIFICATE OF APPROVAL OF FIELD NOTES AND SURVEY OF MINING CLAIM

UNITED STATES DEPARTMENT OF THE INTERIOR GENERAL LAND OFFICE PUBLIC SURVEY OFFICE

At Phoenix, Arizona,

April 15, 19 40

I, Office Cadastral Engineer at Phoenix, Arizona,

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

F. L. Shire

, known as the

HURRICANE, CYCLONE, TORNADO, STORM, and RAINY DAY lodes

situate in Copper Mountain mining district,

Greenlee County, Arizona

in Section 17, Township No. 4 S., Range No. 29 E.

, designated as Survey No. 4230

executed by Ralph L. Motz, Mineral

Surveyor, December 18 - 24, 19 39, under my instructions dated

November 22, 1939, 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

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.

Sherman C. Fiske Office Cadastral Engineer.