

JUL 18. 1916  
OCT. 17. 1916 1

*Platted*

4-683.

Mineral Survey No. 3285

Lot No. \_\_\_\_\_

ARIZONA

Land District.

### FIELD NOTES

OF THE SURVEY OF THE MINING CLAIM OF

SUN DIAL GOLD MINING CO.

KNOWN AS THE

--SUN DIAL, TWILIGHT, SUNSET, SUN RISE, POLARIS Lodes--

San Francisco

Mining District,

Mohave

County,

Arizona.

Section 4, Township 19 N., Range 20 W. Unapp'd

Surveyed under instructions dated April 5, 1916,

by Herman C. Zulch,

*U. S. Deputy Mineral Surveyor*

Claim located See location notices, 1

Survey commenced May 1, 1916.

Survey completed May 15, 1916.

o 6-160

Address of claimant's Att'y in fact,

F. W. Crosley,  
Oatman, Arizona.

Sun Dial  
Twilight  
Sunset  
Sun Rise  
Polaris

Date Of Location  
January 28, 1916  
January 28, 1915.  
January 28, 1915.  
January 28, 1915.  
February 20, 1916.

Date Of Am. Location.  
January 1, 1916.  
January 1, 1916  
January 1, 1916.  
January 1, 1916.

## SUN DIAL LODE

Beginning at Cor. No. 1,

A redwood post, 4 ft. long, 4 ins. square, with nail at exact cor., set 18 ins. in the ground, in mound of earth and stone, scribed: S D 1-3285.

Identical with the Amended location.

U.S.L.M. No. 2670 bears N80°-40'W 5566.35 ft.

Thence N85°-56'E

170.95 Cor. No. 2 Sun Rise lode of this survey, also intersect line 4-1 Sunset lode of this survey, S9°-16'E 122.57 ft. from Cor. No. 1.

285.70 To S. End Center monument of the amended location. A redwood post, 4 ft. long, 4 ins. square, with nail at exact point, set 18 ins. in the ground in mound of earth and stone, scribed: 3285.

The location shaft bears N5°-35'E 360.00 ft.

586.00 To Cor. No. 2, A redwood post, 4 ft. long, 4 ins. square, with nail at exact cor., set 18 ins. in the ground in mound of earth and stone, scribed: S D 2-3285, for this claim.

Identical with the amended location.

Identical with Cor. No. 6, Polaris lode of this survey.

On line 1-2 Sunset lode of this survey, S78°-05'E 443.29 ft. from Cor. No. 1.

Thence N5°-35'E

461.47 Cor. No. 1 Polaris lode of this survey, also intersect southerly side line Southside No. 1 lode, at S58°-24'E 1201.93 ft. from the S.W. Cor. unsurveyed,

841.89 To Cor. No. 3, A redwood post 4 ft. long, 4 ins. square, with nail at exact cor., set 18 ins. in the ground in mound of earth and stone, scribed: S D 3-3285.

The N.E. Cor. of the amended location bears N5°-35'E 658 ft.

Thence S85°-56'W

300.30 To N. End Center, A redwood post 4 ft. long, 4 ins. square, with nail at exact point, set 18 ins. in the ground in mound of earth and stone, scribed, 3285.

The N. End Center of the amended location bears N5°-35'E 658 ft.

The location shaft bears S5°-35'W 481.89 ft.

586.00 To Cor. No. 4, A redwood post 4 ft. long, 4 ins. square, with nail at exact cor., set 18 ins. in the ground in mound of earth and stone, scribed: S D 4-3285.

The N.W. Cor. of the amended location bears N5°-35'E 658 ft.

On line 2-3 Twilight lode of this survey.

## Sun Dial (Continued)

On southerly side line Southside No. 1 lode, unsurveyed,  
S58°-24'E 559.08<sup>ft</sup> from the S.W. Cor.

Thence S5°-35'W

794.54 Cor. No. 2 Twilight lode of this survey, also intersect  
line 1-2 Sun Rise lode of this survey, N78°-05'W 169.56  
841.89 ft. from Cor. No. 2.  
To Cor. No. 1, the place of beginning.

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## TWILIGHT LODGE

Beginning at Cor. No. 1,

A redwood post, 4 ft. long, 4 ins. square, with  
nail at exact cor., set 18 ins. in the ground in mound  
of earth and stone, scribed: T 1-3285.

The S.W. Cor. of the amended location bears N78°-05'W  
35 ft.

U.S.L.M. No. 2670 bears N81°-29'-30"W 5013 ft.

Thence S78°-05'E

122.49 Cor. No. 1, Sun Rise lode of this survey.

301.69 To S. End Center,

A redwood post 4 ft. long, 4 ins. square, with  
nail at exact point, set 18 ins. in the ground, in mound  
of earth and stone, scribed; 3285.

The location shaft bears N5°-35'E 44 ft.

The S. End Center of the amended location bears N78°-05'W  
35 ft.

On line 1-2 Sun Rise lode of this survey.

420.39 To N. End Center, Sun Rise lode of this survey.

552.00 To Cor. No. 2,

A redwood post, 4 ft. long, 4 ins. square, with  
nail at exact cor., set 18 ins. in the ground, in mound  
of earth and stone, scribed: T 2-3285.

Identical with the amended location.

On line 4-1 Sun Dial lode of this survey.

Thence N5°-35'E

794.<sup>54</sup> Cor. No. 4 Sun Dial lode of this survey also intersect  
southerly side line Southside No. 1 lode, unsurveyed,  
at S58°-24'E 559.08 ft. from the S.W. Cor.

## Twilight (Continued)

- 1001.80 To Cor. No. 3,  
A redwood post 4 ft. long, 4 ins. square, with nail at exact cor. set 18 ins. in the ground in mound of earth and stone, scribed: T 3-3285.
- The N. E. Cor. of the amended location bears N5°-35'E  
~~450.95~~ ft.  
450.74
- Thence N78°-05'W
- 250.31 To N. End Center,  
A redwood post 4 ft. long, 4 ins. square, with nail at exact point, set 18 ins. in the ground in mound of earth and stone, scribed: 3285.
- The location shaft bears S55°-35'W 957.80 ft.
- The N. End Center of the amended location bears N1° E 461 ft.
- 501.82 Intersect west end line Southside No. 1 and east end line Southside No. 2, unsurveyed lodes at N17°-01'E 17.50 ft. from the S.W. and S.E. cor.
- 552.00 To Cor. No. 4,  
A redwood post, 4 ft. long, 4 ins. square, with nail at exact cor., set 18 ins. in the ground, in mound of earth and stone, scribed: T 4-3285.
- On southerly side line of Southside No. 2 lode, unsurveyed.
- The N.W. Cor. of the amended location bears N1° E 461 ft.
- The S.E and S.W. Cor. of the Southside No. 2 and Southside No. 1 lodes, unsurveyed, bears S58°-24'E 51.65 ft.
- Thence S5°-35'W
- 1001.80 To Cor. No. 1, The place of beginning.
- \*\*\*\*\*
- SUNSET. LODE.
- Beginning at Cor. No. 1,  
A redwood post, 4 ft. long, 4 ins. square, with nail at exact cor., set 18 ins. in the ground in mound of earth and stone, scribed: S 1-3285.
- Identical with the amended location.
- U.S.L.M. No. 2670 bears N82°-14'-05"W 5696.71 ft.
- Thence S78°-05'E
- 285.41 To N. End Center, of the amended location.  
A redwood post 4 ft. long, 4 ins. square, with nail at the exact point, set 18 ins. in the ground in mound of earth and stone, scribed: 3285.

## Sunset (Continued)

- The location shaft bears S9°-16'E 1208 ft.
- 443.29 Cor. No's 2 and 6; Sun Dial and Polaris lodes, of this survey.
- 607.14 To Cor. No. 2,  
A redwood post 4 ft. long, 4 ins. square, with nail at exact cor., set 18 ins. in the ground, in mound of earth and stone, scribed: S 2-3285.
- Identical with the amended location.
- The East  $\frac{1}{2}$  Cor. of Sec. 4; T.19 N; R.20 W; bears S70°-35'-30"E 624.10 ft.
- Thence S9°-16'E
- 827.17 Intersect line 4-5 Polaris lode, of this survey, S58°-24'E 177.14 ft. from Cor. No.5.
- 1500.00 To Cor. No. 3,  
A redwood post, 4 ft. long, 4 ins. square, with nail at exact Cor., set 18 ins. in the ground in mound of earth and stone, scribed: S 3-3285.
- Identical with the amended location.
- Thence N78°-05'W
- 321.73 To S. End Center of the amended location.  
A redwood post 4 ft. long, 4 ins. square, with nail at exact point, set 18 ins. in the ground, in mound of earth and stone, scribed: 3285.
- The location shaft bears N9°-16'W 292 ft.
- 330.00 Wagon road, course, Northerly and Southerly.
- 607.14 To Cor. No. 4,  
A redwood post 4 ft. long, 4 ins. square, with nail at exact Cor., set 18 ins. in the ground in mound of earth and stone, scribed: S 4-3285, for this claim.
- Identical with the amended location.
- Thence N9°-16'W
- 400.00 Wagon road, course Northwesterly and Southeasterly.
- 610.00 Wagon road, course Northeasterly and Southwesterly.
- 1377.43 Cor. No. 2, Sun Rise lode of this survey also intersect line 1-2 Sun Dial lode of this survey, S85°-56'W 415.05 ft. from Cor. No. 2.
- 1500.00 To Cor. No. 1, The place of beginning.

## SUN RISE LODE.

Beginning at Cor. No. 1,

A redwood post, 4 ft. long, 4 ins. square, with nail at exact cor., set 18 ins. in the ground, in mound of earth and stone, scribed: S R 1-3285.

Identical with the amended location.

On line 1-2 Twilight lode of this survey.

U.S.L.M. No. 2670 bears N81°-24'-35"W 5134.97 ft.

Thence S78°-05'E

179.20 S. End Center, Twilight lode of this survey.

297.90 N. End Center monument of the amended location,

A redwood post, 4 ft. long, 4 ins. square, with nail at exact point, set 18 ins. in the ground, in mound of earth and stone, scribed: 3285.

The location shaft bears S9°-16'E 635.43 ft.

On line 1-2 Twilight lode of this survey.

429.51 Cor. No. 2 Twilight lode of this survey also intersect line 4-1, Sun Dial lode of this survey, N5°-35'E 47.35 ft. from Cor. No. 1.

599.07 To Cor. No. 2,

A redwood post, 4 ft. long, 4 ins. square, with nail at exact cor., set 18 ins. in the ground in mound of earth and stone, scribed: S R 2-3285.

Identical with the amended location.

On line 1-2 and 4-1, Sun Dial and Sunset lodes of this survey, N85°-56'E 170.95 ft. from Cor. No. 1 Sun Dial lode.

Thence S9°-16'E

767.43 Wagon road, Course Northeasterly and Southwesterly.

997.43 Wagon road, Course Northwesterly and Southeasterly.

1377.43 To Cor. No. 3,

Identical with Cor. No. 4, Sunset lode of this survey, previously described, to which I add, SR 3-3285.

Identical with the amended location.

Thence N78°-05'W

301.17 S. End Center monument of the amended location.

A redwood post, 4 ft. long, 4 ins. square, with nail at exact point, set 18 ins. in the ground, in mound of earth and stone, scribed: 3285.

The location shaft bears N9°-16'W 742 ft.

Sun Rise (Continued)

350.00 Wagon road, Course, Northwesterly and Southeasterly.

599.07 To Cor. No. 4,  
A redwood post, 4 ft. long, 4 ins. square, with nail at exact cor., set 18 ins. in the ground, in mound of earth and stone, scribed: S R 4-3285.

Identical with the amended location.

Thence N9°-16'W

85.00 Wagon road, course, Northwesterly and Southeasterly.

1377.43 To Cor. No. 1, The place of beginning.

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POLARIS LODE.

Beginning at Cor. No. 1,  
A redwood post, 4 ft. long, 4 ins. square, with nail at exact corner, set 18 ins. in the ground, in mound of earth and stone, scribed P 1-3285.

Identical with the location.

On line 2-3 Sun Dial lode of this survey and on southerly side line Southside No. 1 lode, unsurveyed, 1201.93 ft. from the S.W. Cor.

U.S.L.M. No. 2670 bears N86°-14'-35"W 6135.38 ft.

Thence S58°-24'E

34.20 To N. End Center monument of the location.  
A redwood post, 4 ft. long, 4 ins. square, with nail at exact point, set 18 ins. in the ground, in mound of earth and stone, scribed: 3285.

The location cut bears S5°-35'W 415 ft.

On southerly side line Southside No. 1 lode, unsurveyed.

134.20 To Cor. No. 2,  
A redwood post, 4 ft. long, 4 ins. square, with nail at exact cor., set 18 ins. in the ground, in mound of earth and stone, scribed: P 2-3285.

Identical with the location.

On southerly side line Southside No. 1 lode, unsurveyed, 1336.13 ft. from the S.W. Cor.

Thence S5°-21'W

216.84 To Cor. No. 3,  
A redwood post, 4 ft. long, 4 ins. square, with



## Polaris (Continued)

nail at exact cor., set 18 ins. in the ground, in mound of earth and stone, scribed: P 3-3285.

Identical with the location.

Thence  $S10^{\circ}49'30''E$

1070.99 To Cor. No. 4,  
A redwood post, 4 ft. long, 4 ins. square, with nail at exact cor., set 18 ins. in the ground in mound of earth and stone, scribed: P 4-3285.

Identical with the location.

54.69 Intersect line 2-3 Sunset lode of this survey,  $S9^{\circ}16'E$   
827.17 ft. from Cor. No. 2.

181.83 To S. End Center monument of the location.  
A redwood post, 4 ft. long, 4 ins. square, with nail at exact point, set 18 ins. in the ground in mound of earth and stone, scribed: 3285.

The location cut bears  $N10^{\circ}34'30''W$  825.93 ft.

231.83 To Cor. No. 5,  
A redwood post, 4 ft. long, 4 ins. square, with nail at exact cor., set 18 ins. in the ground, in mound of earth and stone, scribed: P 5-3285.

Identical with the location.

Thence  $N10^{\circ}40'W$

460.00 Wagon road, course, Northeasterly and Southwesterly.

520.00 Wagon road, course, Northwesterly and Southeasterly.

770.70 To Cor. No. 6,  
Identical with Cor. No. 2, Sun Dial lode of this survey, previously described, to which I add, P 6-3285.

Identical with the location.

On line 1-2 Sunset lode of this survey,  $N78^{\circ}05'W$  163.85 ft. from Cor. No. 2.

Thence  $N5^{\circ}35'E$

461.47 To Cor. No. 1, The place of beginning.

Variation at all corners  $15^{\circ}$  East.

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LODE LINES.

As near as can be determined from present developments the veins of the several locations embraced in this survey, extend as follows from their respective discovery points.

Sun Dial- N5°-35'E 481.89 ft. and S5°-35'W 360 ft.  
 Twilight- N5°-35'E 957.80 ft. and S5°-35'W 44 ft.  
 Sunset- N9°-16'W 1208.00 ft. and S9°-16'E 292 ft.  
 Sun Rise- N9°-16'W 635.43 ft. and S9°-16'E 742 ft.  
 Polaris- N5°-35'E 415 ft. and S10°-34'-30"E 825.93 ft.

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AREAS.

	Acres	Acres
Total area, Sun Dial lode-----		11.165 ✓
Area in conflict with-		
Sunset lode of this survey-----	.581 ✓	
Sun Rise lode of this survey-----	.091 ✓	
Southside No. 1 lode, unsurveyed,-----	2.521 ✓	
<del>Sun Dial lode, (exclusive of its conflict</del>		
<del>with Southside No. 1 lode, unsurveyed)</del> -----	<del>8.644</del>	
 Total area, Twilight lode-----		 12.617 ✓
Area in conflict with-		
Southside No. 1 lode, unsurveyed,-----	1.296	
Southside No. 2 lode, unsurveyed,-----	.010	
<del>Twilight lode, (exclusive of its conflict</del>		
<del>with Southside No. 1 and Southside No. 2</del>		
<del>lodes, unsurveyed)</del> -----	<del>11.518</del>	
 Total area, Sunset lode-----		 19.495 ✓
Area in conflict with -		
Sun Dial lode of this survey-----	.581 ✓	
Polaris lode of this survey-----	2.610 ✓	
 Total area Sun Rise lode-----		 17.664 ✓
 Total area, Polaris lode-----		 4.538 ✓
<del>Area in conflict with-</del>		
<del>Sunset lode of this survey</del> -----	<del>2.610</del>	

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LOCATION.

This survey is located in unapproved surveyed land in Sec. 4; T.19 N; R.20 W; G.&SR. B&M. San Francisco Mining District, Mohave County, Arizona.

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ADJOINING AND CONFLICTING CLAIMS.

## ADJOINING AND CONFLICTING CLAIMS.

The Southside No. 1 and Southside No. 2 lodes, unsurveyed, on the North.

The Del Rey and Del Rey No. 2 lodes, unsurveyed, on the East.

The Invidio Group, consisting of the following lodes:

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## EXPENDITURE OF FIVE HUNDRED DOLLARS.

I certify that the value of the labor and improvements made upon or for the benefit of each of the locations embraced in this survey by the claimant or its grantors is not less than five hundred dollars and that said improvements consist of:

Sun Dial-

No. 1. The discovery shaft of the Sun Dial lode, 4x6 ft. 10 ft. deep, the center of which is on the lode line, 360 ft. from the S. END Center.

Value \$100.00

1/5 interest in improvement No. 3 Sunset lode \$500.00

Twilight.

No. 1. The discovery shaft of the Twilight lode, 4x6 ft., 10 ft. deep, the center of which is on the lode line 44 ft. from the S. End Center.

Value \$100.00

1/5 interest in improvement No. 3 Sunset lode \$500.00

Sunset.

No. 1. The discovery shaft of the Sunset lode 4x6ft, 15 ft deep, which was sunk by the claimant from a depth of 5 ft. to 15 ft. the center of which is on the lode line 292 ft. from the S End Center.

Value \$100.00

No. 2 A shaft 4x6ft. 18 ft. deep, the center of which bears S65-50'W 295 ft. from Cor. No. 2 Sunset lode.

Value \$270.00

No. 3 A shaft, 4x7 ft. 100 ft. deep, timbered, the center of which bears S47°W 310 ft. from Cor. No. 2 Sunset lode.

Value \$2500.00

1/5 interest in above improvement \$500.00

The above described shaft has been started by the claimant company as the main working shaft for the development of all of the claims in this survey. At the present depth of 100 ft. it is considerably below the surface of each of the claims. The claimant company proposes to continue sinking to at least 300 ft. and by drifting and cross-cutting from it, toward and under each of the claims in the group, develop and mine them. This plan of development is consistent with good mining and is generally adopted by the larger companies operating in this district.

The value of the improvement is therefore distributed equally to the five claims in the group. \$500 being credited to each.

Expenditure Of Five Hundred Dollars. (Continued)

Sun Rise.

No. 1 The discovery shaft of the Sun Rise lode, 4x6ft. 9ft. deep, the center of which is on the lode line 742 ft. from the S. End Center.

Value \$90.00

No. 2 Cut, 4½ ft. wide, 10 ft. face, the center of the face of which bears, S20°-20'E 520 ft. from Cor. No. 1 Sun Rise lode and runs thence N14°W 15 ft. to mouth.

Value \$40.00

1/5 interest in improvement No. 3 Sunset lode \$500.00

Polaris.

No. 1 The discovery cut of the Polaris lode, 5 ft. wide the center of which is on the lode line, 415 ft. from the N. End Center and extends S85°W 10½ ft. to mouth and N85°E 10½ ft. to 10 ft. face.

Value \$55.00

1/5 interest in improvement No. 3 Sunset lode \$500.00

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Other Improvements.

The first 5 ft. of a

Shaft 4x6 ft. 15 ft. deep the center of which is on the lode line of the Sunset lode, 292 ft from the S. End center.

Claimant unknown.

Boarding House, 16x20 ft. Course of long side N60°W The S.E. Cor. bears N60°W 435 ft. from Cor. No. 5 Polaris lode.

Claimant herein.

Shop, 12x14 ft. Course of long side N60°W, The N. E. Cor. bears S43-25'W 355 ft. from Cor. No. 2 Sunset lode.

Claimant herein.

Cabin, 10x10 ft. course of side S80°W, The S.E. Cor. bears N47°W 465 ft. from COR. No. 5 Polaris lode.

Claimant herein.

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INSTRUMENT AND DETERMINATION OF MERIDIAN.

This survey was made with an Ainsworth Engineers transit.

The courses were deflected from the true meridian as determined by direct solar observations.

The distances were measured with 100 ft and 500 ft. steel tapes.

## REPORT.

The side and end lines of the claims in this survey and all ~~tie~~ lines were run direct upon the ground .

The  $\frac{1}{4}$  Cor. common to sections 3 and 4; T.19 N; R.20 W; G&S.R., B&M. (Unapproved) to which tie is given consists of a one inch black iron pipe with brass cap stamped  $\frac{1}{4}$  Cor, Sec. 4- Sec. 3.

U.S.L.M. No. 2670 to which tie is given consists of a stone about 9x15 ins. 2 ft. above the ground in mound of rock, with X chiseled on top and USLM 2670 on side.

S.W. Cor Southside No. 1 and S. E. Cor. Southside No. 2 lodes, unsurveyed, consists of a 4x4 ins. red-wood post properly marked.

The amended location certificate of the Sunset lode is in error regarding the position of the discovery shaft.

The disagreement between these notes and notices of location and amended location is due to errors in the latter.

Oatman, Arizona.  
July 14, 1916

Herman D. Zulch  
U. S. Mineral Surveyor.

13  
JUL 18 1916

# FINAL OATHS FOR SURVEYS.

## LIST OF NAMES.

A list of the names of the individuals employed by Herman C. Zulch

United States ~~Deputy~~ 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

Sun Dial Gold Mining Co.,

known as the Sun Dial, Twilight, Sunset, Sun Rise, Polaris lodes--

and showing the respective capacities in which they acted.

- W. T. Bennett ..... , Chairman.
- ..... , Chairman.
- ..... , Axman.
- ..... , Flagman.

## FINAL OATHS OF ASSISTANTS.

I  
We, W. T. Bennett

and ..... , do solemnly swear that <sup>I</sup>we assisted Herman

C. Zulch ..... , United States ~~Deputy~~ Mineral Surveyor, in marking the corners and surveying the boundaries of the mining claim of Sun Dial Gold Mining Co.,

known as the --Sun Dial, Twilight, Sunset, Sun Rise, Polaris lodes--

represented in the foregoing field notes as having been surveyed by said ~~deputy~~ mineral surveyor and under his <sup>my</sup> 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 United States Surveyor-General for Arizona.

- W. T. Bennett ..... , Chairman.
- ..... , Chairman.
- ..... , Axman.
- ..... , Flagman.

Subscribed and sworn to by the above-named persons before me this 14th

day of July ..... , 19 16

Jacob Shuffield  
Notary Public  
in and for MoHAVE County  
State of Arizona

(my Commission expires)  
June 28th. 1919

FINAL OATH OF U. S. ~~DEPUTY~~ MINERAL SURVEYOR

I, Herman C. Zulch, U. S. ~~Deputy~~ Mineral Surveyor, do solemnly swear that, in pursuance of instructions received from the United States Surveyor General for Arizona, dated April 5, 1916, 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 SUN DIAL GOLD MINING CO., known as the --Sun Dial, Twilight, Sunset, Sun Rise, Polaris lodes--, situate in San Francisco Mining District, Mohave County, Arizona, in Section 4, Township No. 19 N., Range No. 20 W. Unapproved. and designated as Survey No. 3285, 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.

*Herman C. Zulch*  
U. S. ~~Deputy~~ Mineral Surveyor.

Subscribed and sworn to by the said Herman C. Zulch  
U. S. ~~Deputy~~ Mineral Surveyor, before me Gadok Sheffield  
A Notary Public this 14th  
day of July A. D. 1916

*Gadok Sheffield*  
Notary Public  
in and for Mohave County  
State of Arizona

*(my Commission expires  
June 28th. 1919*

AMENDED  
Notice of Mining Location  
LODE CLAIM

TO ALL WHOM IT MAY CONCERN:

This Mining Claim, the name of which is the Sun Dial  
Mining Claim, situate on lands belonging to the United States of America, and in which there are  
valuable mineral deposits, was entered upon and located for the purposes of exploration and purchase  
by G. H. Nolan

a citizen of the United States  
(Locator must insert either "a citizen of the United States," or "who has declared his intention to become a citizen of the United States.")

the undersigned, on the 28th day of January, 1915

The length of this claim is 1500 feet,  
and I claim 1140 feet,

in a Northerly direction and 360  
feet in a Southerly

direction from  
the center of the discovery shaft, at which this notice is posted, lengthwise of the claim, together with  
300 feet in width of the surface grounds, on each side  
of the center of said claim. The general course of the lode deposit and premises is from the

to the

The claim is situated and located in the San Francisco Mining District, in  
Mohave County in the State of Arizona, about

direction from  
The N. E. Cor. of Sec 4; T. 19 N; R. 20 W; bears N 51° 05 E  
1542 ft. from the N. W. Cor.

The surface boundaries of the claim are marked upon the ground as follows: Beginning at  
post on the northerly End line

at a point in a northerly direction 1140 feet from  
the discovery shaft (at which this notice is posted), being in the center of the northerly  
end line of said claim; thence N. 86° 02' E 307 feet to a post  
, being the Northeast corner of said claim; thence  
S 5° 41' W 1500 feet to a post, being at the  
Southeast corner of said claim; thence S 86° 02' W 307 feet  
to a Post at the center of the Southerly end of said claim;  
thence S 86° 02' W 283 feet to a Post, being at the  
Southwest corner of said claim; thence N 5° 41' E 1500 feet  
to a Post at the Northwest corner of said claim;  
thence N 86° 02' E 253 feet to the place of beginning.

All done under the provisions of Chapter Six, of Title XXXII, of the Revised Statutes of the  
United States, and of an Act of the General Assembly of Arizona, entitled "An Act to Revise and  
Codify the Laws of the Territory of Arizona," approved March 16, 1901.

This is an Amended Location Notice of the Sun Dial  
Mining Claim, located by G. H. Nolan

on the 28th day of  
January, 1915, and recorded in Book J.J. of Records of Mines, at  
page 555, in the office of the County Recorder of the aforesaid County of Mohave

to which reference is hereby made, and this amended Location Notice is made and posted to correct  
errors in the description in the said original Location Notice

Dated and posted on the ground this 1st day of January, 1916.

G. H. Nolan

Filed and Recorded at request of A. F. Carper March 11th A.D.  
1916 at One Oclock P.M., Book I.I. of Mines, Pages 750-751.  
J. W. Morgan

County Recorder.



AMENDED  
**Notice of Mining Location**  
**LODE CLAIM**

TO ALL WHOM IT MAY CONCERN:

This Mining Claim, the name of which is the Sun Rise  
Mining Claim, situate on lands belonging to the United States of America, and in which there are  
valuable mineral deposits, was entered upon and located for the purposes of exploration and purchase  
by G. H. Nolan

a citizen of the United States  
(Locator must insert either "a citizen of the United States," or "who has declared his intention to become a citizen of the United States.")

the undersigned, on the 28th day of January, 1915.

The length of this claim is 1390 feet,  
and I claim 648 feet,  
in a Northwesterly direction and 742  
feet in a Southeasterly direction from  
the center of the discovery shaft, at which this notice is posted, lengthwise of the claim, together with  
300 feet in width of the surface grounds, on each side  
of the center of said claim. The general course of the lode deposit and premises is from the

----- to the -----  
The claim is situated and located in the San Francisco Mining District, in  
Mohave County in the State of Arizona, about  
-----  
----- direction from

The N. E. Cor. of Sec 4; T 19 N; R. 20 W; bears N 25° 25' E  
2715 ft. from the N. E. Corner.

The surface boundaries of the claim are marked upon the ground as follows: Beginning at  
a post on the North End Line

at a point in a Northerly direction 648 feet from  
the discovery shaft (at which this notice is posted), being in the center of the Northerly  
end line of said claim; thence N. 77° 59' W 300 feet to a post  
-----, being the Northwest corner of said claim; thence  
S 9° 10' E 1390 feet to a Post, being at the  
Southwest corner of said claim; thence S 77° 59' E 300 feet  
to a Post at the center of the South end of said claim;  
thence S 77° 59' E 300 feet to a Post, being at the  
Southeast corner of said claim; thence N 9° 10' W 1390 feet  
to a Post at the Northeast corner of said claim;  
thence N 77° 59' W 300 feet to the place of beginning.

All done under the provisions of Chapter Six, of Title XXXII, of the Revised Statutes of the  
United States, and of an Act of the General Assembly of Arizona, entitled "An Act to Revise and  
Codify the Laws of the Territory of Arizona," approved March 16, 1901.

This is an Amended Location Notice of the Sun Rise  
Mining Claim, located by G. H. Nolan

on the 28th day of  
January, 1915, and recorded in Book J.J. of Records of Mines, at  
page 612, in the office of the County Recorder of the aforesaid County of Mohave  
to which reference is hereby made, and this amended Location Notice is made and posted to correct  
errors in the description in the said original Location Notice

Dated and posted on the ground this 1st day of January, 1916.  
G. H. Nolan

Filed and Recorded at request of A.F. Carper March 11th A.D.  
1916 at One O'clock P.M., Book I.I. of Mines, Pages 752.  
J. W. Morgan  
County Recorder.

# Notice of Mining Location

## LODE CLAIM

TO ALL WHOM IT MAY CONCERN:

This Mining Claim, the name of which is the Polaris  
Mining Claim, situate on lands belonging to the United States of America, and in which there are  
valuable mineral deposits, was entered upon and located for the purpose of exploration and purchase  
by G. H. Nolan

a citizen of the United States

(Locator must insert either "a citizen of the United States," or "who has declared his intention to become a citizen of the United States.")

the undersigned, on the 20th day of February, 1916.

The length of this claim is 1234.63 feet,  
and I claim 415 feet,  
in a Northerly direction and 819.63

feet in a Southeasterly direction from  
the center of the discovery cut, at which this notice is posted, lengthwise of the claim, together with  
300 feet in width of the surface grounds, on each side  
of the center of said claim. The general course of the lode deposit and premises is from the.....

North to the South

The claim is situated and located in the San Francisco Mining District, in  
Mohave County in the State of Arizona, about .....  
in a ..... direction from The westerly angle corner is  
identical with the S. E. Cor Sun Dial claim.

The surface boundaries of the claim are marked upon the ground as follows: Beginning at  
Post on the northerly end line

at a point in a northerly direction 415 feet from  
the discovery cut (at which this notice is posted), being on end line of the northerly  
end line of said claim; thence S 37° 53' E 100 feet to a Post  
....., being the Northeast corner of said claim; thence  
S 6° 07' E 217.83 feet to a Post, being at the  
East Angle corner of said claim; thence S 10° 46' E 1070 feet  
to a post at the S. E. Corner at the center of the Thence N 57° 53' W 179.68 ft to post  
on End line Thence N 57° 53' W 50 feet to a Post being at the  
Southwest corner of said claim; thence N 10° 46' E 772.87 ft to a feet-  
post at west angle Cor; thence N 5° 41' E 461.76 ft. to post  
to a ..... at the Northwest corner of said claim;  
thence S 57° 53' E 37.53 feet to the place of beginning.

Dated and posted on the grounds this 20th day of February, 1916

G. H. Nolan  
Locator

Filed and Recorded at request of A.F. Carper April 1st A.D. 1916  
at One O'clock P.M., Book Q.Q. of Mines, Pages 5.

J. W. Morgan  
County Recorder.



## RECORDER'S CERTIFICATE.

STATE OF ARIZONA, )  
 )-ss.  
 County of Mohave. )

I, J. W. Morgan, Recorder of Mohave County, State of Arizona, do hereby certify that I have compared the foregoing copies of amended notices of location of the SUNSET, SUN DIAL, TWILIGHT, and SUN RISE lode mining claims, and of original notice of location of the POLARIS lode mining claim, all of said claims situated in the San Francisco mining district, County of Mohave, State of Arizona, and of the endorsement thereon with the original records thereof on file in this office, and that the same are correct transcripts therefrom and of the whole of said original records.

WITNESS my hand and official seal this 3rd day of

April, 1916.



*J. W. Morgan*  
 Recorder of Mohave County, Arizona.



4-688.

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

**Department of the Interior,**

OFFICE OF U. S. SURVEYOR-GENERAL,

Phoenix, Arizona,

December 22, 1916.

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

SUN DIAL GOLD MINING CO.

known as the SUN DIAL, TWILIGHT, SUNSET, SUN RISE, POLARIS LODES.

situate in SAN FRANCISCO

Mining District, MOHAVE County, ARIZONA.

in Section 4, Township No. 19 N., Range No. 20 W., unapp'd., and

designated as Survey No. 3285, 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, <sup>or for each of</sup> said mining claims by claimant or its grantors, and that said improvements consist of 6 shafts and 2 cuts, total value \$3255. As shaft No. 3 on the Sunset lode is a common improvement for the benefit and development of this group of claims, an undivided one-fifth interest therein, value \$500, is properly credited to each of the claims in this survey.

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,

December 22, 1916.

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

SUN DIAL GOLD MINING CO.

, known as the

SUN DIAL, TWILIGHT, SUNSET, SUN RISE, POLARIS LODES.

situate in SAN FRANCISCO mining district,

MOHAVE County, ARIZONA.

in Section 4, Township No. 19 N., Range No. 20 W., unapp'd.

, designated as Survey No. 3285

executed by Herman C. Zulch, U. S. Deputy Mineral

Surveyor, May 1-15, 1916, under my instructions dated

April 5, 1916, 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. A true copy of the copy of the location certificate filed by the applicant for

survey is included in the field notes.

Frank P. Frost

U. S. Surveyor-General for Arizona.

UNITED STATES DEPARTMENT OF THE INTERIOR 9605 (956)  
BUREAU OF LAND MANAGEMENT M.S. 3285  
ARIZONA STATE OFFICE

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NOTICE OF CANCELLATION OF MINERAL SURVEY

The Sun Dial, Twilight, Sunset, Sun Rise, and Polaris lodes, Mineral Survey No. 3285, located in section 4, Township 19 North, Range 20 West, Gila and Salt River Meridian, Arizona, are hereby canceled.

These claims have 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 clear the record.

The Mineral Survey Plat should be noted as follows:

"Sun Dial, Twilight, Sunset, Sun Rise, and Polaris lodes, M.S. 3285, were canceled February 7, 2007, by memo 9605 (956) M.S. 3285, which is now a part of the original field notes."

February 7, 2007  
Date

Stephen K. Hansen  
Chief Cadastral Surveyor of Arizona