

MAY 12 1925

4-683

2

MINERAL SURVEY No. 3978

Arizona

Land District

FIELD NOTES

OF THE SURVEY OF THE MINING CLAIM OF

Union Copper Mining Company

one mile wide

KNOWN AS THE

COPPER CRUN, COPPER QUEEN, COPPER BELL, MARGARITA, ST PAUL, SAN LUIS,
SAN FRANCISCO, BUENA VISTA, SAN MAGUEL, COPPER TOP, ALBA, CHARRON, WASHINGTON,
SAN FERNANDO, COLOMBIA and COPPER KING lodes, Amole Mining District,

Pima

County,

Arizona

Sections 29, 30, 31 and 32, Township 15 S., Range 12 E.

Surveyed under instructions dated March 21, 19 25

by

T. N. Stevens

U. S. Mineral Surveyor

Claim located. See location notices, 19

Survey commenced. April 15, 1925

Survey completed. April 30, 19 25

Address of claimant R.W. Langworthy, Atty. for claimant,
Box 45, Tucson, Arizona.

DATES OF AMENDED LOCATIONS.

MINERAL SURVEY NO. 3978

Claims	M & B Desc. Pg.	Improvements Pg.	Loc. Notices Red Pg.
Alba	12	24	14
Buena Vista	9	23	10
Cimarron	14	24	15
Colombia	16	26	19
Coper Bell	3	21	3
Coper Crun	1	19	1
Coper Queen	2	20	2
Coper Top	11	24	13
Copper King	17	26	21
Margarita	4	21	5
San Fernando	15	25	18
San Francisco	8	23	9
San Luis	7	22	7
San Maguel	10	24	11
St. Paul	6	22	6
Washington	14	25	17

Feet.

MINERAL SURVEY NO. 3978

COPER CRUN Lode.

Beginning at Cor. No.1, identical with Loc. Mon.

An iron pipe 1 in. diam. with cap on top, 18 ins. above ground, set 18 ins. in the ground, stamped 1 C C - 3978, with md. of stone alongside, whence the 1/4 Cor. bet. Secs. 31 and 32, T. 13 S., R. 12 E., brs. S. 42°40' W., 992.25 ft.

No other bearings are available.

Thence N° 5°13' E.

Va. 13°30' E.

50.0 Gulch brs. southwesterly.

300.0 To E. end Center, identical with Loc. Mon.

An iron pipe 1 in. diam. by 4 ft. high, driven firmly in the ground and surrounded with md. of stone 3 1/2 ft. base by 3 ft. high, stamped E. Cr. CC.

600.0 To Cor. No.2, identical with Loc. Mon. and Cor. No.3 Buena Vista lode of this Sur.

An iron pipe 1 in. diam. with cap on top 18 ins. above ground, set 18 ins. in the ground, stamped 2 CC, 3 B V - 3978.

No bearings are available.

Thence N. 84°47' W.

Va. 13° 30' E.

470.0 Gulch brs. southwesterly.

1500.0 To Cor. No.3, identical with Loc. Mon. and Cor. Nos. 2, 2 and 2, Copper Queen, San Francisco and Buena Vista lodes of this Sur.

An iron pipe 1 in. diam. with cap on top, 18 ins. above ground, set 18 ins. in the ground, stamped 3 C C, 2 C Q, 2 S F. 2 B V - 3978 with md. of stone alongside.

No bearings are available.

Thence S. 5°13' W.

Va. 13°30' E.

300.0 To W. end center, identical with E. end center Coper Queen lode of this Sur.

An iron pipe 1 in. diam. by 4 ft. high, driven firmly in the ground and surrounded with md. of stone 3 1/2 ft. base by 3 ft. high, stamped E. Cr. C.Q, W. Cr. C.C.

600.0 To Cor. No.4, identical with loc. Mon. and Cor. No.1 Coper Queen

Feet.

MINERAL SURVEY NO. 3978
COPER CRUN Lode - Cont'd.

lode of this. Sur.

An iron pipe 1 in. diam. with cap on top, 18 ins. above ground,
set 18 ins. in the ground, stamped 4 C C, 1 C Q - 3978.

No bearings are available.

Thence S. 84°47' E.
Va. 13°30' E.

200.0 Gulch brs. southwesterly.

1400.0 Gulch brs. southwesterly.

1500.0 To Cor. No.1, the place of beginning.

COPER QUEEN Lode.

Beginning at Cor. No.1, identical with Loc. Mon. and Cor. No.4
Coper Crun lode of this Sur., heretofore described, Whence the 1/4
Cor. bet. Secs. 31 and 32 T. 13 S.R.12E. brs. S. 43°29'E., 1193.53
ft. U.S. M. M. No.1 brs. S. 5°44' E., 3515.17 ft.

No other bearings are available.

Thence N. 5°13' E.
Va. 13°30' E.

300.0 To E. end center, identical with Loc. Mon. and W. end center
Coper Crun lode of this Sur., heretofore described.

600.0 To Cor. No.2, identical with Loc. Mon. and Cor. Nos. 2, 2 and 3,
San Francisco, Buena Vista and Coper Crun lodes respectively, of
this Sur., heretofore described.

Thence N. 84°47' W.
Va. 13°30' E.

750.0 Gulch brs. southwesterly.

1500.0 To Cor. No.3, identical with Loc. Mon. and Cor. Nos. 1, 2 and 3,
San Luis, Copper King and San Francisco lodes respectively of this
Sur.

An iron pipe 1 in. diam. with cap on top, 18 ins. above ground,
set 18 ins. in the ground, stamped 3 C Q, 1 S L, 2 C K, 3 S F -
3978, with md. of stone alongside.

No bearings are available.

Thence S. 5°13' W.
Va. 13°30' E.

300.0 To W. end center, identical with Loc. Mon. and E. end center San
Luis lode of this. Sur.

Feet.

MINERAL SURVEY NO. 3978
COPER QUEEN Lode - Cont'd.

An iron pipe 1 in. diam. by 4 ft. high, driven firmly in the ground and surrounded with md. of stone 3 1/2 ft. base by 3 ft. high, scribed W. Cr. C Q , E Cr. S L .

350.0 Gulch brs. southeasterly.

470.0 Road brs. southeasterly.

600.0 To Cor. No.4, identical with Loc. Mon. and Cor. No.2 San Luis Lode of this Sur.

An iron pipe 1 in. diam. with cap on top, 18 ins. above ground set 18 ins in the ground, stamped 4 C Q, 2 S L - 3978, with md. of stone alongside.

No bearings are available.

Thence S. 84°47'E.,
Va. 13°30' E.

⁹
~~40~~.0 Road brs. southeasterly.

250.0 Gulch brs. southerly.

1500.0 To Cor. No.1, the place of beginning.

COPER BELL Lode.

Beginning at Cor. No.1, identical with Loc. Mon. and Cor. Nos. 1, 4 and 4, St. Paul, San Fernando and Coper Top lodes respectively, of this Sur.

An iron pipe 1 in. diam. with cap on top, 18 ins. above ground, set 18 ins. in the ground, stamped 1 C B, 1 S P, 4 S Fern., 4 C T - 3978, with md. of stone alongside, whence the Cor. to Secs.29-30-31 and 32 T.13 S., 12 E., brs S. 85°50'30" E., 2152.91 ft.

No other bearings are available.

Thence N. 84°47'W.
Va. 13°30'E.

220.0 Gulch brs. southwesterly.

300.0 To S. end center, identical with Loc. Mon. on line 4-1 St Paul lode of this Sur.

An iron pipe 1 in. diam. by 4 ft. high, driven firmly in the ground and surrounded with md of stone 3 1/2. ft. base by 3 ft. high, stamped S. Cr. C B.

310.0 Gulch brs' southerly.

Feet.	MINERAL SURVEY NO. 3978 COPER BELL Lode - Cont'd.
600.0	<p>To Cor. No.2, identical with Loc. Mon. and Cor. No.1 Colombia lode of this Sur.; on line 4-1 St. Paul lode of this Sur. An iron pipe 1 in. diam. with cap on top, 18 ins. above ground, set 18 ins. in the ground, stamped 2 C B, 1 G - 3978, with md of stone alongside.</p> <p>No bearings are available.</p> <p>Thence N.5°13'E. Va. 13°30'E.</p>
1500.0	<p>To Cor. No.3, identical with Loc. Mon. and Cor. No.4 Colombia lode of this Sur. An iron pipe 1 in. diam. with cap on top, 18 ins. above ground, set 18 ins. in the ground, stamped 3 C B, 4 C - 3978, with md of stone alongside.</p> <p>No bearings are available.</p> <p>Thence S.84°47' E. Va. 13°30'E.</p>
268.88	<p>Intersect line 3-4, Sur. No.1709, Colorado lode, Claimant unknown, at N.13°05'E., 113.77 ft. from Cor. No.5 and S.13°05'W., 506.73 ft. from Cor. No.4.</p>
300.0	<p>To N. end center, identical with Loc. Mon. An iron pipe 1 in. diam. by 4 ft. high, driven firmly in the ground and surrounded with md of stone 3 1/2 ft. base by 3 ft. high, stamped N. Cr. C B.</p>
600.0	<p>To Cor. No.4, identical with Loc. Mon. An iron pipe 1 in. diam. with cap on top, 18 ins. above ground, set 18 ins. in the ground, stamped 4 C B - 3978, with md. of stone alongside.</p> <p>Cor. No.3 Sur. No.1709 Colorado lode brs. S.77°12'30"W., 364.55 ft. U.S.L.M. No.1709 brs. N.61°07'30"E., 2562.4 ft.</p> <p>No other bearings are available.</p> <p>Thence S.5°13'W. Va. 13°30' E .</p>
152.0	<p>Intersect line 2-3 Sur. No.1709 Colorado lode at S.78°19'E., 348.91 ft. from Cor. No.3 and N.78°19'W., 1129.39 ft. from Cor. No.2.</p>
900.0	<p>To Cor. No.3 Coper Top lode of this Sur., heretofore described.</p>
1200.0	<p>To W. end center Coper Top lode of this Sur., heretofore described.</p>
1205.0	<p>Gulch brs. southwesterly.</p>
1500.0	<p>To Cor. No.1, the place of beginning.</p>
	<p>MARGARITA Lode.</p>
	<p>Beginning at Cor. No.1, identical with Loc. Mon. and Cor. Nos. 2, ³ and 4, Washington, St. Paul, and Copper King lodes respectively, of this Sur.</p>

Feet.

MINERAL SURVEY NO. 3978.
MARGARITA Lode. -Cont'd.

An iron pipe 1 in. diam., with cap on top, 18 ins. above ground, set 18 ins. in the ground, stamped 1 M, 2 W, 3 S P, 4 C K - 3978, with md of stone alongside, whence the Cor. to Secs. 29, 30, 31 and 32, T. 13S., R. 12E. brs. N. $85^{\circ} 16' 50''$ E., 3708.15 ft.

No other bearings are available.

Thence S. $5^{\circ} 13'$ W.
Va. $13^{\circ} 30'$ E.

240.0 Gulch brs. southerly.

300.0 To E. end center, identical with Loc. Mon. and W. end center Copper King lode of this Sur.

An iron pipe 1 in. diam. by 4 ft. high, driven firmly in the ground and surrounded with md of stone $3 \frac{1}{2}$ ft. base by 3 ft. high, stamped E. Cr. M, W. Cr. C K.

600.0 To Cor. No. 2, identical with Loc. Mon. and Cor. Nos. 1, 4 and 3, San Maguel, San Luis and Copper King lodes respectively, of this Sur.

An iron pipe 1 in. diam. with cap on top, 18 ins. above ground, set 18 ins. in the ground, stamped 2 M, 1 S M, 4 S L, 3 C K - 3978.

No bearings are available.

Thence N. $47^{\circ} 25'$ W.
Va. $13^{\circ} 30'$ E.

1500.0 To Cor. No. 3, identical with Loc. Mon. and Cor. No. 4 San Maguel lode of this Sur.

An iron pipe 1 in. diam. with Cap on top, 18 ins. above ground, set 18 ins. in the ground, stamped 3 M, 4 S M - 3978, with md of stone alongside.

No bearings are available.

Thence N. $5^{\circ} 13'$ E.
Va. $13^{\circ} 30'$ E.

300.0 To W. end center, identical with Loc. Mon.

An iron pipe 1 in. diam. by 4 ft. high, driven firmly in the ground and surrounded with md. of stone $3 \frac{1}{2}$ ft. base by 3 ft. high, stamped W. Cr. M.

600.0 To Cor. No. 4, identical with Loc. Mon. and Cor. No. 3 Washington lode of this Sur.

An iron pipe 1 in. diam. with cap on top, 18 ins. above ground,

Feet. MINERAL SURVEY NO. 3978
MARGARITA Lode.

set 18 ins. in the ground, stamped 4 M; 3 W - 3978, with md of stone
alongside.

No bearings are available.

Thence S. 47°25' E.
Va. 13°30' E.

1350.0 Gulch brs. southerly.

1500.0 To Cor. No.1, the place of beginning.

ST PAUL Lode.

Beginning at Cor. No.1, identical with Loc. Mon. and Cor. Nos. 1,
4 and 4, Coper Bell, Coper Top and San Fernando lodes respectively
of this Sur., heretofore described, whence the Cor. To Secs. 29,30,
31 and 32, T. 13 S., R. 12E. brs. S. 85° 50' 30" E., 2152.91 ft.

Thence S. 5°13'W.
Va. 13°30' E.

300.0 To E. end center, identical with Loc. Mon. and W. end center San
Fernando lode of this Sur.

An iron pipe 1 in. diam. by 4 ft. high, driven firmly in the ground
and surrounded with md of stone 3 1/2 ft. base by 3 ft. high, stamped
E. Cr. S P, W. Cr. S F.

600.0 To Cor. No.2, identical with Loc. Mon. and Cor. Nos 3,4 and 4,
San Fernando, San Francisco and Copper King lodes respectively, of
this Sur.

An iron pipe 1 in. diam. with cap on top, 18 ins. above ground,
set 18 ins. in the ground, stamped 2 SP, 3 S Fern, 4 S Fran, 4 C K-
3978. with md of stone alongside.

No bearings are available.

Thence N. 84°47'W.
Va. 13°30' E.

60.0 Gulch brs. southwesterly.

1500.0 To Cor. No.3, identical with Loc. Mon. and Cor. Nos. 4, 1 and 2,
Copper King, Margarita and Washington lodes respectively of this Sur.
heretofore described.

Thence N. 5°13' E.
Va. 13°30' E.

300.0 To W. end center, identical with E. end center Washington lode of
this Sur.

Feet.

MINERAL SURVEY NO. 3978.
St Paul Lode - Cont'd.

An iron pipe 1 in. diam.by 4 ft. high, driven firmly in the ground and surrounded with md of stone 3 1/2 ft. base by 3 ft. high, stamped W. Cr. S P, E Cr. W.

600.0 To Cor. No.4, identical with Loc. Mon. and Cor. No.1 Washington lode of this Sur.

An iron pipe 1 in. diam. with cap on top, 18 ins. above ground, set 18 ins. in the ground, stamped 4 S P, 1 W - 3978.

No bearings are available.

Thence S. 84°47' E.
Va. 13°30' E.

300.0 To Cor. No.2 Colombia lode of this Sur., hereinafter described.

600.0 To S. end center Colombia lode of this Sur., hereinafter described.

900.0 To Cor. No.1 Colombia lode and Cor. No.2 Coper Bell lode, both of this Sur., heretofore described.

1190.0 Gulch brs. southerly.

1200.0 To S. end center Coper Bell lode of this Sur., heretofore described.

1280.0 Gulch brs. southwesterly.

1500.0 To Cor. No.1, the place of beginning.

SAN LUIS Lode.

Beginning at Cor. No.1, identical with Loc. Mon. and Cor. Nos. 2, 3 and 3 Copper King, San Francisco and Coper Queen lodes respectively of this Sur., heretofore described, whence the Cor. to Secs. 29,30, 31 and 32, T. 13 S., R.12 E. brs. N. 65°16' 30" E., 2484.04 ft.

Thence S.5°13' W.
Va. 13°30' E.

300.0 To E end center, identical with W. end center Coper Queen lode of this Sur., heretofore described.

350.0 Gulch brs. southeasterly.

470.0 Road brs. southeasterly.

600.0 To Cor. No.2, identical with Loc. Mon. and Cor. No.4 Coper Queen lode of this Sur., heretofore described.

Thence N. 84°47' W.
Va. 13°30' E.

1250.0 Gulch brs. southeasterly.

1500.0 To Cor. No. 3, identical with Loc. Mon. and Cor. No.2 San Maguel

Feet.

MINERAL SURVEY NO. 3978
SAN LUIS Lode. -Cont'd.

lode of this Sur.

An iron pipe 1 in. diam. with cap on top, 18 ins. above ground, set 18 ins. in the ground, stamped 3 S L, 2 S M - 3978, with md of stone alongside.

No bearings are available.

Thence N. 5°13'E.
Va. 13°30' E.

300.0 To W. end center, identical with Loc. Mon. and E. end center San Maguel lode of this Sur.

An iron pipe 1 in. diam. by 4 ft. high, driven firmly in the ground and surrounded with md. of stone 3 1/2 ft. base by 3 ft. high, stamped W. Cr. S L, E Cr. S M.

350.0 Gulch brs. southeasterly.

600.0 To Cor. No. 4 identical with Loc. Mon. and Cor. Nos. 1, 2 and 3 San Maguel, Margarita, and Copper King lodes respectively, of this Sur., heretofore described.

Thence S. 84°47' E.
Va. 13°30' E.

80.0 Gulch brs. southerly.

1230.0 Road brs. southeasterly.

1400.0 Gulch brs. southwesterly.

1500.0 To Cor. No. 1, the place of beginning.

SAN FRANCISCO Lode.

Beginning at Cor. No. 1, identical with Loc. Mon. and Cor. Nos. 1, 2 and 2 Buena Vista, Alba and San Fernando lodes respectively of this Sur.

An iron pipe 1 in. diam., with cap on top, 18 ins. above ground, set 18 ins. in the ground, stamped 1 S Fran, 1 B V, 2 A, 2 S Fern- 3978. with md. of stone alongside, whence the Cor. to Secs. 29, 30, 31 and 32 T. 13 S., R. 12 E. brs. N. 50°47' E., 913.85 ft.

No other bearings are available.

Thence S. 5°13' W.
Va. 13°30' E.

300.0 To E. end center, identical with W. end center, Buena Vista lode of this Sur.

Feet.

MINERAL SURVEY NO. 3978.
SAN FRANCISCO Lode- Cont'd.

An iron pipe 1 in. diam. by 4 ft. high, driven firmly in the ground and surrounded with md of stone 3 1/2 ft. base by 3 ft. high, stamped E. Cr. S Fran, W. Cr. B V.

600.0 To Cor. No.2, identical with Loc. Mon. and Cor. Nos. 2, 3 and 2 Buena Vista, Coper Crun and Coper Queen lodes respectively of this Sur heretofore described.

Thence N° 84°47' W.
Va. 13°30' E.

750.0 Gulch brs. southwesterly.

1500.0 To Cor. No.3, identical with Loc. Mon. and Cor. Nos. 3, 1 and 2 Coper Queen, San Luis, and Copper King lodes respectively of this Sur., heretofore described.

Thence N. 5°13' E.
Va. 13°30' E.

150.0 Gulch brs. southwesterly.

300.0 To W. end center, identical with Loc. Mon. and E end center Copper King lode of this Sur.

An iron pipe 1 in. diam. by 4 ft. high, driven firmly in the ground and surrounded with md of stone 3 1/2 ft. base by 3 ft. high, stamped W. Cr. S Fran., E Cr. C K.

600.0 To Cor. No.4, identical with Loc. Mon. and Cor. Nos. 2, 2 and 3 Copper King, St. Paul and San Fernando lodes respectively of this Sur., heretofore described.

Thence S. 84°47' E.
Va. 13°30' E.

340.0 Gulch brs. southwesterly.

1270.0 Gulch brs. southerly.

1500.0 To Cor. No.1 the place of beginning.

BUENA VISTA Lode.

Beginning at Cor. No.1, identical with Loc. Mon. and Cor. Nos. 1, 2 and 2, San Francisco, San Fernando, and Alba lodes respectively of this Sur., heretofore described, whence the Cor. to Secs. 29, 30, 31 and 32 T. 13S., R. 12 E. brs. N. 50° 47' E., 913. 85 ft.

Thence S. 5°13' W.
Va. 13°30' E.

300.0 To W. end center, identical with Loc. Mon. and E end center San

Feet.

MINERAL SURVEY NO. 3978
BUENA VISTA Lode - Cont'd.

Francisco lode of this Sur., heretofore described.

600.0

To Cor. No.2, identical with Loc. Mon. and Cor. Nos. 3, 2 and 2, Coper Crun, Coper Queen and San Francisco lodes respectively of this Sur., heretofore described.

Thence S. 84°47' E.
Va. 13°30' E.

1030
1500.0

Gulch bears southwesterly
To Cor. No.3, identical with Loc. Mon. and Cor. No.2, Coper Crun lode of this Sur., heretofore described.

Thence N. 5°13' E.
Va. 13°30' E.

300.0

To E. end center, identical with Loc. Mon.

An iron pipe 1 in. diam. by 4 ft. high, set firmly in the ground and surrounded with md. of stone 3 1/2 ft. base by 3 ft. high, stamped , E. Cr. B. V.

600.0

To Cor. No.4, identical with Loc. Mon. and Cor. No.3 Alba lode of this Sur.

An iron pipe 1 in. diam. with Cap on top, 18 ins. above ground, set 18 ins. in the ground, stamped 4 B. V., 3 A - 3978, with md. of stone alongside.

No bearings are available.

Thence N. 84°47' W.
Va. 13°30' E.

480.0

Gulch brs. southerly.

1500.0

To Cor. No.1, the place of beginning.

SAN MAGUEL Lode.

Beginning at Cor. No.1, identical with Loc. Mon. and Cor. Nos. 2, 3 and 4 Margarita, Copper King and San Luis lodes respectively, of this Sur., heretofore described, whence the Cor. to Secs. 29,30, 31 and 32, T. 13 S. R. 12 E. brs. N. 76°28' 10" E., 3857.2 ft.

No other bearings are available.

Thence S. 5°13' W.
Va. 13°30' E.

250.0

Gulch brs. southeasterly.

300.0

To E. end center, identical with W. end center, San Luis lode of this Sur., heretofore described.

Feet.

MINERAL SURVEY NO. 3978
SAN MAGUEL Lode. - Cont' d.

600.0

To Cor. No.2, identical with Loc. Mon. and Cor. No. 3 San Luis lode of this Sur., heretofore described.

Thence N. 47°25' W.
Va. 13°30' E.

1500.0

To Cor. No.3, identical with Loc. Mon.

An iron pipe 1 in. diam. with cap on top, 18 ins. above ground, set 18 ins. in the ground, stamped 3 S M - 3978.with md of stone alongside.

No bearings are available.

Thence N. 5°13'E.
Va. 13°30' E.

300.0

To W. end center, identical with Loc. Mon. and

An iron pipe 1 in. diam. by 4 ft. high, set firmly in the ground and surrounded with md.of stone 3 1/2 ft. base by 3 ft. high, stamped, W. Cr. S. M.

600.0

To Cor. No.4, identical with Loc. Mon. and Cor. No.3 Margarita lode of this Sur., heretofore described.

Thence S. 47°25' E.
Va. 13°30' E.

1500.0

To Cor. No.1, the place of beginning.

COPER TOP Lode.

Beginning at Cor. No.1, identical with Loc. Mon. and Cor. Nos. 1, 1 and 1 , Cimarron, Alba and San Fernando lodes of this Sur.

An iron pipe 1 in. diam. with cap on top, 18 ins. above ground, set 18 ins. in the ground, stamped 1 C T, 1 C, 1 A, 1 S Fern -3978. with md.of stone alongside , whence the Cor. to Secs. 29, 30, 31 and 32 T. 13 S., R. 12 E. brs. S. 88°16' 20" E., 653.75 ft.

No other bearings are available.

Thence N. 5°13' E.
Va. 13°30'E.

300.0

To E. end center, identical with Loc. Mon. and W. end center, Cimarron lode of this. Sur.

An iron pipe 1 in. diam. by 4 ft. high, driven firmly in the ground and surrounded with md.of stone 3 1/2 ft. base by 3 ft. high, stamped E Cr. CT, W. Cr. C.

Feet.	MINERAL SURVEY NO. 3978. COPER TOP Lode - Cont'd.
600.0	To Cor. No.2, identical with Loc. Mon. and Cor. No. 2 Cimarron lode of this Sur. An iron pipe 1 in. diam. with cap on top, 18 ins. above ground, set 18 ins. in the ground, stamped 2 C T, 2 C - 3978, with md. of stone alongside. No bearings are available. Thence N. ⁴ 88°47' W. Va. 13°30' E.
1220.0	Gulch brs. southwesterly.
1500.0	To Cor. No.3, identical with Loc. Mon., on line 4-1 Coper Bell lode of this Sur. An iron pipe 1 in. diam. with Cap on top, 18 ins. above ground, set 18 ins. in the ground, stamped 3 C T - 3978., with md. of stone alongside. No bearings are available. Thence S. 5°13' W. Va. 13°30' E.
300.0	To W. end center, identical with Loc. Mon. and on line 4-1 Coper Bell lode of this Sur. An iron pipe 1 in. diam. by 4 ft. high, driven firmly in the ground, and surrounded with md. of stone 3 1/2 ft. base by 3 ft. high, stamped W. Cr. C T.
305.0	Gulch brs. southwesterly.
600.0	To Cor. No.4, identical with Loc. Mon. and Cor. Nos. 1, 1 and 4, Coper Bell, St Paul and San Fernando lodes respectively, of this Sur., heretofore described. Thence S. 84°47' E. Va. 13°30' E.
1500.0	To Cor. No.1, the place of beginning. ALBA Lode. Beginning at Cor. No.1, identical with Loc. Mon. and Cor. Nos. 1, 1 and 1, San Fernando, Coper Top and Cimarron lodes of this Sur., heretofore described, whence the Cor. to Secs. 29, 30, 31 and 32, T. 13 S./R.12E. brs. S° 88°16' 20" E., 653.75 ft. Thence S. 5°13' W. Va. 13°30' E.

Feet.	MINERAL SURVEY NO. 3978. ALBA Lode - Cont'd.
120.0	Gulch brs. southwesterly.
300.0	To W. end center, identical with Loc. Mon. and E end center San Fernando lode of this Sur. An iron pipe 1 in. diam. by 4 ft. high, driven firmly in the ground and surrounded with md of stone 3 1/2 ft. base by 3 ft. high, stamped W. Cr. A, E. Cr. S Fern.
600.0	To Cor. No.2, identical with Loc. Mon. and Cor. Nos. 2, 1 and 1, San Fernando, San Francisco and Buena Vista lodes respectively of this Sur., heretofore described. Thence S. 84°47' E. Va. 13°30' E.
1020.0	Gulch brs' southerly.
1500.0	To Cor. No.3, identical with Loc. Mon. and Cor. No.4, Buena Vista lode of this Sur., heretofore described. Thence N. 5°13' E. Va. 13°30' E.
300.0	To E. end center, identical with Loc. Mon. An iron pipe 1 in. diam. by 4 ft. high, driven firmly in the ground and surrounded with md of stone 3 1/2 ft. base by 3 ft. high stamped E. Cr. A.
590.0	Gulch brs' southwesterly.
600.0	To Cor. No.4, identical with Loc. Mon. and Cor. No.4, Cimarron lode of this Sur. An iron pipe 1 In. diam. with cap on top, 18 ins. above ground, set 18 ins. in the ground, stamped , 4 A, 4 C - 3978, with md. of stone alongside. No bearings are available. Thence N. 84°47' W. Va. 13°30' E.
140.0	Gulch brs. southerly.
1310.0	Gulch brs. southwesterly.
1500.0	To Cor. No.1, the place of beginning.

Feet.

MINERAL SURVEY NO. 3978.
CIMARRON Lode.

Beginning at Cor. No.1, identical with Loc. Mon. and Cor. Nos.1, 1 and 1, Alba, San Fernando and Coper Top lodes of this Sur., heretofore described, whence the Cor. to Secs. 29, 30, 31 and 32, T. 13 S., R. 12 E., brs. S. 88°16' 20" E., 653.75 ft.

Thence N. 5°13' E.
Va. 13°30' E.

300.0 To W. end center, identical with Loc. Mon. and E. end center Coper Top lode of this Sur., heretofore described.

600.0 To Cor. No.2, identical with Loc. Mon. and Cor. No.2 Coper Top lode of this Sur., heretofore described.

Thence S. 84°47' E.
Va. 13°30' E.

580.0 Gulch brs. southwesterly.

1500.0 To Cor. No.3, identical with Loc. Mon.

An iron pipe 1 in. diam. with Cap on top, 18 ins. above ground, set 18 ins. in the ground, stamped 3 C - 3978, with md of stone alongside.

No bearings are available
Thence S. 5° 13' W.
Va. 13°30' E.

300.0 To E. end center, identical with Loc. Mon.

An iron pipe 1 in. diam. by 4 ft. high, driven firmly in the ground and surrounded with md of stone 3 1/2 ft. base by 3 ft. high, stamped E. Cr. C.

600.0 To Cor. No.4, identical with Loc. Mon. and Cor. No.4 Alba lode of this Sur., heretofore described.

Thence N. 84°47' W.
Va. 13°30' E.

140.0 Gulch brs. southerly.

1310.0 Gulch brs. southwesterly.

1500.0 To Cor. No.1, the place of beginning.

WASHINGTON Lode.

Beginning at Cor. No.1, identical with Loc. Mon. and ^{Cor. No.} 4 St Paul lode of this Sur., heretofore described, whence the Cor. to Secs. 29, 30, 31 and 32, T. 13 S., R. 12 E., brs. S. 85°24'30" E., ~~561.09~~ ^{3652.76} ft.

Feet.

MINERAL SURVEY NO. 3978
WASHINGTON Lode-Cont'd.

Thence S. 5°13' W.
Va. 13°30' E.

300.0 To E. end center, identical with Loc. Mon. and W. end center St Paul lode of this Sur., heretofore described.

600.0 To Cor. No.2, identical with Loc. Mon. and Cor. Nos. 3, 4 and 1, St Paul, Copper King and Margarita lodes respectively, of this Sur., heretofore described.

Thence N. 47°25' W.
Va. 13°30' E.

150.0 Gulch brs. southerly.

1500.0 To Cor. No.3, identical with Loc. Mon. and Cor. No.4 Margarita lode of this Sur., heretofore described.

Thence N. 5°13' E.
Va. 13°30' E.

300.0 To W. end center, identical with Loc. Mon.

An iron pipe 1 in. diam. by 4 ft. high, driven firmly in the ground and surrounded with md of stone, 3 1/2 ft. base by 3 ft. high, stamped W. Cr. W.

600.0 To Cor. No.4, identical with loc. Mon.

An iron pipe 1 in. diam. with cap on top, 18 ins. above ground, set 18 ins. in the ground, stamped 4 W - 3978, with md. of stone alongside.

No bearings are available.

Thence S. 47°25' E.
Va. 13°30' E.

1500.0 To Cor. No.1, the place of beginning.

SAN FERNANDO Lode.

Beginning at Cor. No.1, identical with Loc. Mon. and Cor. Nos. 1, 1 and 1, Coper Top, Cimarron and Alba lodes of this Sur., heretofore described, whence the Cor. to Secs. 29, 30, 31 and 32 T. 13 S., R.12 E., brs. S. 88°16' 20" E., 653.75 ft.

Thence S. 5° 13' W.
Va. 13°30' E.

120.0 Gulch brs' southwesterly.

300.0 To E. end center, identical with Loc. Mon. and W. end center Alba lode of this Sur., heretofore described.

Feet.

MINERAL SURVEY NO. 3978.
SAN FERNANDO Lode, Cont'd.

600.0 To Cor. No.2, identical with Loc. Mon. and Cor. Nos. 2, 1 and 1
Alba, Buena Vista and San Francisco lodes respectively, of this
Sur., heretofore described.

Thence N. 84° 47' ^W W.
Va. 13°30' E.

230.0 Gulch brs. southerly.

1160.0 Gulch brs. southwesterly.

1500.0 To Cor. No.3, identical with Loc. Mon. and Cor. Nos. 2, 1 and 4,
St Paul, Copper King and San Francisco lodes respectively of
this Sur., heretofore described.

Thence N. 5°13' E.
Va. 13°30' E.

300.0 To W. end center, identical with Loc. Mon. and E. end center St
Paul lode of this Sur., heretofore described.

600.0 To Cor. No. 4, identical with Loc. Mon. and Cor. Nos. 1, 1 and 4,
St Paul, Coper Bell and Coper Top lodes respectively, of this Sur.,
heretofore described.

Thence S. 84°47' E.
Va. 13°30' E.

1500.0 To Cor. No.1, the place of beginning.

COLOMBIA Lode.

Beginning at Cor. No.1, identical with Loc. Mon. and Cor. No.2
Coper Bell lode of this Sur., heretofore described. On line 4 - 1
St Paul lode of this Sur. at N. 84°47' W. 600 ft. from Cor. No.1.

Whence the Cor. to Secs. 29, 30, 31 and 32 T. 13 S., R. 12 E. brs.
S. 85° 36' 40" E., 2752.83 ft.

Thence N. 84°47' W.
Va. 13°30' E.

300.0 To S. end center, identical with Loc. Mon.

An iron pipe 1 in. diam. by 4 ft. high, driven firmly in the ground
and surrounded with md. of stone 3 1/2 ft. base by 3 ft. high, stamped
S Cr. C.

600.0 To Cor. No.2, identical with Loc. Mon.

An iron pipe 1 in. diam. with cap on top, 18 ins. above ground,
set 18 ins. in the ground, stamped 2 C - 3978, with md. of stone
alongside.

	<p>MINERAL SURVEY NO. 3978. COLOMBIA LODGE.-Cont'd.</p> <p>No bearings are available.</p> <p>Thence N.5°13' E. Va. 13°30' E.</p>
1500.0	<p>To Cor. No.3, identical with Loc. Mon. and Cor</p> <p>An iron pipe 1 in. diam. with cap on top, 18 ins. above ground, set 18 ins. in the ground, stamped 3 C - 3978. with md of stone also alongside.</p> <p>No bearings are available.</p> <p>Thence S. 84°47' E. Va. 13°30' E.</p>
300.0	<p>To N. end center, identical with Loc. Mon.</p> <p>An iron pipe 1 in. diam. by 4 ft. high, driven firmly in the ground and surrounded with md of stone 3 1/2 ft. base by 3 ft. high, stamped N. Cr. C.</p>
600.0	<p>To Cor. No.4, identical with Loc. Mon. and Cor. No.3 Coper Bell lode of this Sur., heretofore described.</p> <p>Thence S. 5°13' W. Va. 13°30' E.</p>
1500.0	<p>To Cor. No.1, the place of beginning.</p> <p>COPPER KING Lode.</p> <p>Beginning at Cor. No.1, identical with Loc. Mon. and Cor. Nos. 2, 3 and 4, St Paul, San Fernando, and San Francisco lodes respectively of this Sur., heretofore described, whence the Cor. to Secs. 29, 30, 31 and 32 T 13 S., R. 12 E. brs. N. 78°39' 50" E., 2245.6 ft.</p> <p>Thence S. 5° 13' W. Va. 13°30' E.</p>
300.0	<p>To E. end center, identical with Loc. Mon. and W. end center San Francisco lode of this Sur., heretofore described.</p>
450.0	<p>Gulch brs. southwesterly.</p>
600.0	<p>To Cor. No.2, identical with Loc. Mon. and Cor. Nos. 3, 3 and 1, San Francisco, Coper Queen and San Luis lodes respectively, of this Sur., heretofore described.</p> <p>Thence N. 84°47' W. Va. 13°30' E.</p>
100.0	<p>Gulch brs. southerly.</p>
270.0	<p>Road brs' southeasterly.</p>

Feet.

MINERAL SURVEY NO. 3978.
COPPER KING Lode- Cont'd.

1420.0 Gulch brs' southerly.

1500.0 To Cor. No.3, identical with Loc. Mon. and Cor. Nos. 4, 1 and 2, San Luis, San Maguel, and Margarita lodes respectively, of this Sur., heretofore described.

Thence N° 5°13' E.
Va. 13°30' E/

300.0 To W. end center, identical with Loc. Mon. and E end center, Margarita lode of this Sur., heretofore described.

360.0 Gulch brs' southeasterly.

600.0 To Cor. No.4, identical with Loc. Mon. and Cor. Nos. 1, 2 and 3, Margarita, Washington and St Paul lodes respectively of this Sur., heretofore described.

Thence S. 84°47' E.
Va. 13°30' E.

1440.0 Gulch brs. southwesterly.

1500.0 To Cor. No.1, the place of beginning.

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LODE LINES.

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

- Coper Crun lode, 600.0 ft. S.84°47'E., and 900.0 ft. N.84°47' W.
- Coper Queen lode, 400.0 ft. S.84°47' E., and 1100.0 ft. N. 84°47' W.
- Coper Bell lode, 550.0 ft. S. 5°13' W., and 950.0 ft. N 5°13' E.
- Margarita lode, 300.0 ft. S.47°25' E., and 1200.0 ft. N. 47°25' W.
- St Paul lode, 400.0 ft. S.84°47' E., and 1100.0 ft. N. 84°47' W.
- San Luis lode, 710.0 ft. S.84°47' E., and 790.0 ft. N. 84°47' W.
- San Francisco lode, 440.0 ft. S.84°47'E., and 1060.0 ft. N. 84°47' W.
- Buena Vista lode, 10.0 ft. N.84°47'W., and 1490.0 ft. S. 84°47' E.
- San Maguel lode, 450.0 ft. S.47°25'E., and 1050.0 ft. N.47° 25' W.
- Coper Top lode, 250.0 ft. N.84°47'W., and 1250.0 ft. S. 84°47' E.
- Alba lode, 30.0 ft. N.84°47'W., and 1470.0 ft. S.84°47' E.
- Cimarron lode, 30.0 ft. N.84°47'W., and 1470.0 ft. S. 84°47' E.
- Washington lode, 300.0 ft. S.47°25'E., and 1200.0 ft. N. 47°25' W.
- San Fernando lode, 600.0 ft. N.84°47'W., and 900.0 ft. S. 84°47' E.
- Colombia lode, 570.0 ft. S. 5°13'W., and 930.0 ft. N. 5°13' E.
- Copper King lode, 250.0 ft. S.84°47'E., and 1250.0 ft. N. 84°47' W.

Feet.

MINERAL SURVEY NO. 3978.

AREA.

	Acres.
Total area, Coper Crun lode-----	20.661
Total area, Coper Queen lode -----	20.661
Total area, Coper Bell lode -----	20.661
Total area, Margarita lode -----	16.421
Total area, St Paul lode,-----	20.661
Total area, San Luis lode -----	20.661
Total area, San Francisco lode-----	20.661
Total area, Buena Vista lode -----	20.661
Total area, San Maguel. lode -----	16.421
Total area, Coper Top lode -----	20.661
Total area, Alba lode -----	20.661
Total area, Cimarron lode -----	20.661
Total area, Washington lode -----	16.421
Total area, San Fernando lode -----	20.661
Total area, Colombia lode -----	20.661
Total area, Copper King lode -----	20.661
<i>Area in conflict with Colorado lode Sur. No. 1709 -----</i>	<i>1.033 acres.</i>

The survey of each lode of this location is identical with the respective locations as staked upon the ground.

LOCATION.

This survey is located in the S W 1/4 ^{Uns.} Sec. 29, S E. 1/4 Sec. 30, ^{Uns.} N. E. 1/4, ^{Uns.} Sec. 31 and the N. W. 1/4, ^{Uns.} Sec. 32, T. 13 S., R. 12 E., G. & S. R. M.

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 said mining claim by the claimant or its grantors is not less than five hundred dollars, and that said improvements consist of ;

Coper Crun lode.

No.1, The discovery point on the center line , 600 ft. from the center of line 1-2, a md of stone on cropping.
No Value.

No 2, a shaft, the center of which brs. from Cor. No.1 N. 63° W., 650.0 ft. , 4 x 6 ft. 10 ft. deep.
Value \$100.

No. 3, a shaft, the center of which brs. from Cor. No.4 N. 88°45' E. 350.0 ft. , 4 x 6 ft. 8 ft. deep.
Value \$80.0

No.4, a cut, the mouth of which brs. from Cor. No.1, N. 31°30' W., 330.0, 4 ft. wide, 10 ft. face, running North 15.0 ft. to face.

Value \$100.0

MINERAL SURVEY NO. 3978

EXPENDITURE OF FIVE HUNDRED DOLLARS- Cont'd.

Coper ~~Queen~~ lode - Cont'd.

No.5, a cut the mouth of which brs. from Cor. No.1 N.26°45' W.,
300.0^{ft.}4 ft. wide, 10 ft. face, running North 15 ft. to face.

Value \$100.0

No.6. A cut, the mouth of which brs. from Cor. No.1 N. 19°30' W.,
290.0 ft., 4 ft. wide, 10 ft. face running North 15 ft. to face.

Value \$100.0

An undivided 1 / 16 interest in improvement No.4, Copper King
lode, hereinafter described, credited to this lode.

Value \$ 1340.0

COPER QUEEN Lode.

No.1, the discovery point, on the center line, 400.0 ft. from the
center of line 1-2, A md of stone on cropping.

No value.

No.2, A tunnel, the mouth of which brs. from Cor. No.1, N.43°30' W.,
4 x 6 ft.
570.0 ft. running S. 85° E., 50 ft., thence S. 43° E., 125.0 ft.

Value \$1750.0

No. 3, A cut, the mouth of which brs. from Cor. No.2, S. 56° W.,
270.0, 4 ft. wide, 10 ft. face, running S. 43° E., 15 ft. to face.

Value \$100.0

No.4, A shaft, the center of which brs. from Cor. No.2 S. 60° W.,
260.0^{ft.}, 4 x 6 ft. 10 ft. deep.

Value \$100.0

No.5, A tunnel, the mouth of which brs. from Cor. No.2, S. 66° W.,
250.0 ft. 4 x 6 ft. running S 42° E., 50 ft. to face.

Value \$500.0

No.6, A cut, the mouth of which brs. from Cor. No.2, S. 66° W., 210.0
ft. 4 ft. wide, 10 ft. face, running S. 42° E., 15 ft. to face.

Value \$100.0

No. 7 A cut, the mouth of which brs. from Cor. No.2, S. 71° W., 190.0
ft. 4 ft. wide, 10 ft. face, running S. 42° E., 15 ft. to face.

Value \$100.0

No.8, A cut, the mouth of which brs. from Cor. No.4 N. 13° E., 250.0
ft. 4 ft. wide, 10 ft. face running N.13°E., 15 ft. to face.

MINERAL SURVEY NO. 3978.

EXPENDITURE OF FIVE HUNDRED DOLLARS - Cont'd.

COPER QUEEN Lode - Cont' d.

Value \$100.0

An undivided 1/16 interest in improvement No.4, Copper King lode ,
hereinafter described, credited to this lode.

Value \$ 1340.0

COPER BELL Lode.

No.1, The discovery cut, the face of which being the discovery
point, on the center line , 550.0 ft. from the center of line 1-2
4 ft. wide, 10 ft. face, running S. 50° W. 15 ft. to mouth.

Value \$100.0

No. 2, A cut, the mouth of which brs: from Cor. No. 2 N..29°30' E.,
620.0 ft. 4 ft..wide 10 ft. face running N° 85° E., 15 ft. to face.

Value \$100.0

No.3 A cut, the ^{face} mouth of which brs: from Cor. No:2 N. 69°30' E.,
280.0 ft. 4 ft. wide, 10 ft. face, running S. 85° E., 15 ft. to ^{mouth} face.

Value \$100.0

An undivided 1/16 interest in improvement No.4, Copper King lode
hereinafter described, credited to this lode.

Value \$1340.0

MARGARITA Lode.

No.1, The discovery point , on the center line 300 ft. from the
center of line 1-2, A md of stone on cropping.

No value.

No.2 A cut, the mouth of which brs: from Cor. No.1 N. 85°30' W.,
250.0 ft. 4 ft. wide, 10 ft. face, running N° 40° W., 15 ft. to face.

Value \$100.0

No.3 A cut, the mouth of which brs. from Cor. No.1, N°78°45' W.,
260.0 ft. 4 ft. wide, 10 ft. face, running N. 40° W., 15 ft. to face.

Value \$100.0

No.4 A shaft, on the center line 600.0 ft. from the center of line
3-4, 4 x 6 ft. 20 ft. deep.

Value \$200.0

No.5, A shaft, the center of which brs. from Cor. No.1, S.5°13' W.,
38.0 ft., 5 x 8 ft., 100 ft. deep, (timbered).

Value \$2500.0

MINERAL SURVEY NO. 3978

EXPENDITURE OF FIVE HUNDRED DOLLARS - Cont' d.

MARGARITA Lode - Cont'd.

An undivided 1/16 interest in improvement No.4, Copper King lode, hereinafter described, credited to this lode.

Value \$1340.0

ST PAUL Lode.

No.1, the discovery cut, the face of which being the discovery point on the center line, 400 ft. from the center of line 1-2, 4 1/2 ft. wide 8 ft. face running S. 47° E., 12 ft. to mouth.

Value \$80.0

No.2 A cut, the mouth of which brs. from Cor. No.1, S. 50° W., 520.0 ft. 4 ft. wide 10 ft. face, running S. 76°30' W., 15 ft. to face.

Value \$100.0

No.3 A cut, the mouth of which brs. from Cor. No.1, S.46°30' W., 520.0 ft. 4 ft. wide, 10 ft. face, running S.76° 30' W.,15 ft. to face

Value \$100.0

No.4 A cut, the mouth of which brs. from Cor. No.1, S.43°30' W., 530.0 ft. 4 ft. wide, 10 ft. face, running S. 76°30' W., 15 ft. to face

Value \$100.

No.5 A cut, the mouth of which brs. from Cor. No.1, S.41°W.,540.0 ft. 4 ft. wide, 10 ft. face, running S. 76°30' W.,15 ft. to face.

Value \$100.0

An undivided 1/16 interest in improvement No.4, Copper King lode, hereinafter described, credited to this lode.

Value \$ 1340.0

SAN LUIS Lode.

No.1, the discovery cut, the face of which being the discovery point, on the center line 710.0 ft. from the center of line 1-2, 4 ft. wide, 10 ft. face running S. 64° W., 15 ft. to mouth.

Value \$100

No.2, A cut, the mouth of which brs. from Cor. No.3 N.77°45' E., 840.0 ft. 4 ft. wide, 10 ft. face running N. 58° E.,15 ft. to face.

Value \$100.0

No.3, A cut, the mouth of which brs. from Cor. No.3 N.86°45' E., 820.0 ft. 4 ft. wide, 10 ft. face, running N.58°E.,15 ft. to face.

Value \$100.0

MINERAL SURVEY No.3978.

EXPENDITURE OF FIVE HUNDRED DOLLARS - Cont'd.

SAN LUIS Lode - Cont'd.

No.4, A shaft, the center of which brs. from Cor. No. 3,N. 89°E.,
900.0 ft. 4 x 6 ft. 10 ft. deep.

Value \$100.0

No.5, A tunnel, the mouth of which brs. from Cor. No. 1 S. 70° W.,
500.0 ft. 4 x 6 ft. running S. 85 ° W., 50 ft.

Value \$500.0

An undivided 1/16 interest in improvement No.4, Copper King lode
hereinafter described, credited to this lode.

Value \$ 1340.0

SAN FRANCISCO Lode.

No.1 The discovery cut, the face of which being the discovery point
on the center line 440.0^{ft} from the center of line 1-2 , 4 1/2 ft.
wide, 10 ft. face running S. 25° E., 15 ft. to face.

Value \$100.0

No.2 A cut, the mouth of which brs. from Cor. No.1, S. 60 ° W.,
450.0 ft. 4 1/2 ft. wide, 10 ft. face running^S 30° E., 15 ft. to face.

Value \$100.0

³
No. ~~2~~ A cut , the mouth of which brs. from Cor. No.1, S. 60° W.,
430.0 ft. 4 1/2 ft. wide, 10 ft. face, running S. 30° E., 15 ft. to
face.

Value \$100.0

An undivided 1/16 interest in improvement No.4, Copper King lode ,
hereinafter described, credited to this lode.

Value \$ 1340.0

BUENA VISTA Lode.

No.1 The discovery shaft; the center of which being the discovery
point, on the center line, 10 ft. from the center of line 1-2,
4 x 6 ft. 10 ft. deep.

Value \$100.0

An undivided 1/16 interest in improvement No.4 Copper King lode,
hereinafter described, credited to this lode.

Value \$1340.0

MINERAL SURVEY NO. 3978

EXPENDITURE OF FIVE HUNDRED DOLLARS } Cont' d.

SAN MAGUEL Lode.

No.1, The discovery cut, the face of which being the discovery point, on the center line, 450.0 ft. from the center of line 1-2, 4 ft. wide, 10 ft. face, running N. 30° E., 15 ft. to mouth.

Value \$100.0

No.2 A cut, the mouth of which brs. from Cor. No.1 N. 88°30' W., 330.0 ft. 4 ft. wide, 10 ft. face, running S. 35° W., 15 ft. to face.

Value \$100.0

No.3 A cut, the mouth of which brs. from Cor. No.1, N.81°45' W., 315.0 ft. 4 ft. wide, 10 ft. face, running N. 30° E., 15 ft. to face.

Value \$100.0

An undivided 1/16 interest in improvement No.4, Copper King lode, hereinafter described, credited to this lode.

Value \$1340.0

COPER TOP Lode.

No.1, The discovery point, on the center line 250.0 ft. from the center of line 3-4, a md of stone, on cropping.

No value.

No.2 A shaft, the center of which brs. from Cor. No.3, S.43°30' E., 320.0^{ft.}, 4 x 6 ft. 10 ft. deep.

Value \$100.0

An undivided 1/16 interest in improvement No.4, Copper King lode hereinafter described, credited to this lode.

Value \$1340.0

ALBA. Lode.

No.1, The discovery shaft, the center of which being the discovery point, on the center line, 30 ft. from the center of line 1-2.

4 x 6 ft. 10 ft. deep.

Value \$100.0

An undivided 1/16 interest in improvement No.4, Copper King lode hereinafter described, credited to this lode.

Value \$ 1340.0

CIMARRON Lode.

No.1, The discovery shaft, the center of which being the discovery point, on the center line 30 ft. from the center of line 1-2,

4 x 6 ft. 10 ft. deep.

Value \$ 100.0

MINERAL SURVEY NO. 3978.

EXPENDITURE OF FIVE HUNDRED DOLLARS. - Cont'd.

CIMARRON Lode - Cont'd.

An undivided 1/16 interest in improvement No.4, Copper King lode, hereinafter described, credited to this lode.

Value \$1340.0

WASHINGTON Lode.

No.1 The discovery point, on the center line, 300 ft. from the center of line 1-2 . A md of stone on cropping.

No Value.

No.2 A cut, the mouth of which brs. from Cor. No.1 N. 88° W., 250.0 ft. 4 ft. wide; 10 ft. face, running North 15 ft. to face.

Value \$100.0

No.3 A cut, the mouth of which brs. from Cor. No. 3 S. 81° E., 290 ft. 4 ft. wide, 10 ft. face, running N. 41° W., 15 ft. to face.

Value \$100.0

An undivided 1/16 interest in improvement No.4, Copper King lode, hereinafter dedcribed, credited to this lode.

Value \$ 1340.0

SAN FERNANDO Lode.

No.1 The discovery point, on the center line, 600 ft. from the center of line 3-4. A Md.of stone on cropping.

No value.

No.2 A cut, the mouth of which brs. from Cor. No.4, S.65°30' E., 670.0 ft. 4 ft. wide, 10 ft. face, running S. 45° E., 15 ft. to face.

Value \$100.0

No.3 A cut; the mouth of which brs' from Cor. No.4, S. 67° E., 680. ft. 4 ft. wide, 10 ft. face running S. 45°E., 15 ft. to face.

Value \$100.0

No.4 A cut, the mouth of which brs' from Cor. No.4, S.69°15' E., 690. ft. 4 ft. wide; 10 ft. face, running S. 40° E. 15 ft. to face.

Value \$100.0

No.5 A shaft, the center of which brs. from Cor. No.4, S. ^{79°45'}~~84°47'~~ E. 810.0 ft. 4 x 6 ft. 10 ft. deep.

Value \$100.0

MINERAL SURVEY NO. 3978.

EXPENDITURE OF FIVE HUNDRED DOLLARS -Cont'd.

SAN FERNANDO Lode - Cont'd.

An undivided 1/16 interest in improvement No.4 Copper King lode, Hereinafter described, credited to this lode.

Value \$1340.0

COLOMBIA Lode.

No.1 The discovery cut, the mouth of which being the discovery point on the center line 570.0 ft. from the center of line 1-2, 4 ft. wide 10 ft. face, running N.5°E. 15 ft. to face.

Value \$100.0

No.2, A cut, the mouth of which brs. from Cor. No.1 N. 22° W., 640.0 ft. 4 ft. wide, 10 ft. face, running N. 6° E., 15 ft. to face.

Value \$100.0

No.3, A tunnel, the mouth of which brs. from Cor. No.1 N. 13°30' W., 350.0 ft. 4 x 6 ft. running N. 5° E., 50 ft. to face.

Value \$500.0

No.4 A tunnel, the mouth of which brs. from Cor. No.1 N.26°W., 550.0 ft. 4 x 6 ft. running N.5°15'E., 50 ft. to face.

Value \$ 500.0

An undivided 1/16 interest in improvement No.4, Copper King lode, hereinafter described, credited to this lode.

Value \$ 1340.0

COPPER KING Lode.

No.1, the discovery point, on the center line, 250.0 ft. from the center of line 1-2, A md of stone on cropping:

No Value.

No.2 A Cut, the mouth of which brs. from Cor. No.4 S. 44° E., 90. ft. 4 ft. wide, 10 ft. face, running N. 76°30' E., 15 ft. to face.

Value \$100.0

No.3 A Cut, the mouth of which brs. from Cor. No.4, S.41°30' E., 110.0 ft. 4 ft. wide, 10 ft. face, running N. 76°30' E. 15 ft. to face.

Value \$100.0

No.4 An inclined shaft, the center of which brs. from Cor. No.1, S.61°30'W., 440.0 ft. 8 x 10 ft. (Timbered) 400 ft. deep.

At the 71 ft. level a drift 4 x 6 ft. running S.43° W., 12.0 ft. to

MINERAL SURVEY NO. 3978.

EXPENDITURE OF FIVE HUNDRED DOLLARS.-Cont'd.

COPPER KING Lode - Cont'd.

face. At same point another drift 4 x 6 ft. running N.42°50' E., 73.4 ft. thence N.64°45' E., 69.3 ft., thence N.3°56' W., 23 ft. to center of ^{uprise} 82 ft. to surface.

At 172.0 ft. level A drift 4 x 6 ft. running N.42°39' E., 300 ft. to face. At same point a drift 4 x 6 ft. running S.42°39' W., 50.0 ft., thence S. 23° W., 75.0 ft. to face.

At 272.0 ft. level. A drift 4 x 6 ft. running N 45° E., 75.0 ft. to face. At same point a drift 4 x 6 ft. running S. 45° W., 60 ft. to face.

At 375.0 ft. level. A drift 4 x 6 ft. running N. 45° E., 80.0 ft. to face. At same point a drift 4 x 6 ft. running S. 45° W., 70.0 ft. to face.

Total value \$21440.0

An undivided 1/16 interest is assigned to this claim, *value \$1340.*

This shaft is a practicable and feasible main working shaft in the course of construction for the development of the 16 claims of this survey, consisting of the Coper Crun, Coper Queen, Coper Bell, Margarita, St Paul, San Luis, San Francisco, Buena Vista, San Maguel, Coper Top, Alba, Cimarron, Washington, San Fernando, Colombia and Copper King lodes. As by drifting and cross-cutting therefrom in different directions, towards and under the above mentioned claims, the entire group may be advantageously developed and ore extracted therefrom, as all the discoveries are above the present bottom of this shaft.

This improvement is therefore a common improvement for the benefit of each of the 16 mentioned claims. An undivided 1/16 interest in this improvement value \$1340.0 is properly accredited to each of the above mentioned claims.

OTHER IMPROVEMENTS.

COPPER KING Lode.

An iron clad engine house, the S.E. Cor. of which brs. from Cor.No. 1, S.63°30' W., 450.0 ft. 30 x 40 ft., course of long sides, S.46°19' E.,

MINERAL SURVEY NO. 3978.

OTHER IMPROVEMENTS, -Cont'd.

An iron clad tool room, the S.E. cor of which brs from Cor. No.1
S.58° W., 400.0 ft. 20 x 30 ft., course of long sides, S.46°15' E.

A frame office building, the S.E. Cor. of which brs from Cor. No.1
S.58° W. 450.0 ft. 14 x 40 ft., course of long sides S. 43°45' W.

A frame Black Smith Shop and Garage, the N.W. Cor. of which brs.
from Cor. No.1 S. 45° W., 380.0 ft. 18 x 30 ft., Course of long
sides S.43°45' W.

A frame dwelling, the N.W. Cor. of which brs from Cor. No.1,
S. 40°45' W. 150.0 ft. 14 x 30 ft., course of long sides, S.30° W.

A frame dwelling, the N.W. Cor. of which brs from Cor. No.1,
S. 29° W., 150.0 ft. 12 x 20 ft., course of long sides, S. 30° W.

A frame dwelling, the N. W. Cor. of which brs from Cor. No.1,
S. 20° W. 150.0, 12 x 20 ft., course of long sides S. 30° W.

A frame dwelling, the N.W. Cor. of which brs. from Cor. No.1,
S. 13°30' W., 155.0 ft. 12 x 20 ft., course of long sided S. 30° W.?

A frame dwelling, the S. E. Cor. of which brs from Cor. No.2
N.19° W., 320.0 ft. 12 x 20 ft. Course of long sides N. 41° E.

A frame dwelling, the S.E. Cor. of which brs from Cor. No.2,
N. 23° W., 360.0 ft. 12 x 20 ft, Course of long sides N. 41° E.

A frame dwelling, the N. E. Cor. of which brs. from Cor. No.2
N. 61° W., 440.0 ft. 30 x 30 ft., course of sides N. 50° W.

SAN LUIS Lode.

A frame dwelling, the S.E. Cor. of which brs. from Cor. No.1
N.89°30' W., 320.0 ft. 18 x 24 ft. Course of long sides N.10° E.

A frame dwelling, the N.E. Cor. of which brs from Cor. No.1
S. 62° W., 310.0 ft. 18 x 24 ft., course of long sides N. 12° E.

A frame dwelling, the N. E. Cor. of which brs from Cor. No.1
S. 62° W., 400.0 ft. 18 x 24 ft. course of long sides, N. 12° E.

A frame dwelling, the N. W. Cor. of which brs. from Cor. No.1
S. 59°15' W., 470.0 ft. 14 x 20 ft. Course of long sides North.

A frame dwelling, the N. E. Cor. of which brs from Cor. No.1
S. 59°15' W., 490.0 ft, 14 x 20 ft., Course of long sides North.

MINERAL SURVEY NO. 3978.
INSTRUMENT.

This survey was made with a Gurley Mountain transit, the courses were deflected from the true meridian as determined by direct solar observations. The distances were measured with a 500 ft. steel tape.

REPORT.

The lode line of each location of this claim was run directly upon the ground, and the corners were established by running around the claims

The 1/4 Cor. Bet. Secs. 31 and 32 T.13 S., R.12E., is a granite rock 8 x 10 ins. showing 12 ins. above ground, chiseled 1/4 on W. face.

The Cor. to Secs. 29, 30, 31 and 32 consists of a granite rock 4 x 6 ins. showing 14 ins. above ground, chiseled with 1 notch on the S. face and 5 notches on the E. face.

U.S.M.M. NO. 1 consists of a pine post 4 ins. sq by 8 ft. high, set in md. of stone 6 ft. base by 4 ft. high, scribed U.S.M.M. No. 1. There appears to have been other markings on the post but cannot be distinguished on account of the decayed condition of same.

I run a line due North from the S.W. Cor. of T.13 S. R.12 E., 1 1/2 Mi. I failed to find any evidence of the W. 1/4 Cor. Sec. 31, the Cor. to Secs. 30 and 31, and the W. 1/4 Cor. Sec. 30 after diligent search.

U.S.L.M. No. 1709 consists of a redwood post about 6 x 8 ins. 2 ft. above the top of monument, set in md of stone 6 ft. base by 4 ft. high

This monument appears to have been struck by lightning and the post is nearly destroyed. About 12 ft. to the N.E. is the center monument between the Jumbo and Iron Chief lodes of Sur. No. 1709.

Sur. No. 1709 Colorado lode, Cor. Nos. 2, 3 and 4 consist of pine posts 4 ins. sq by 4 ft. high set in mds of stone and scribed with the number of the corners and the survey.

Lines 2-3 and 3-4 fail to furnish the courses and distances as approved (N. 74° 37' W., 1500.0 ft. and N. 15° 23' E., 600.0 ft.) and same are properly given in these field notes.

The tie from Cor. No. 1 Sur. No. 1709 Colorado lode to U.S.L.M No. 1709 does not check with the record, due to errors in the latter.

Upon investigation I am of the opinion that the Neguilla lode, Lot 37, belongs in about the center of T. 14 S., R. 12 E. as at this location there is a high peak, known as Soapweed Peak with a large monument upon the summit, and from the relative position from its summit as appears in the record of the Neguilla lode are found a number of very old workings. This peak brs. S. 27° E. about 4 1/2 miles from Wasson or Amole Peak.

ADJOINING CLAIMS.

On North by Sur. No. 1709 Colorado lode.

No other adjoining or conflicting claims known.

FINAL OATHS FOR SURVEYS.

LIST OF NAMES.

A list of the names of the individuals employed by T. N. Stevens

United States 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 _____

Union Copper Mining Company,

known as the COPER CRUN, COPER QUEEN, COPER BELL, MARGARITA, ST PAUL, SAN LUIS, SAN FRANCISCO, BUENA VISTA, SAN MAGUEL, COPER TOP, ALBA, CIMARRON, WASHINGTON, SAN FERNANDO, and showing the respective capacities in which they acted. COLOMBIA and COPPER KING lodes.

_____Martin Waer, Jr._____, *Chainman.*

_____, *Chainman.*

_____, *Acman.*

_____, *Flagman.*

FINAL OATHS OF ASSISTANTS.

We, I. Martin Waer, Jr.

and _____, do solemnly swear that ^Iwe assisted _____

T. N. Stevens, United States Mineral Surveyor, in marking the corners and surveying

the boundaries of the mining claim of Union Copper Mining Company

known as the COPER CRUN, COPER QUEEN, COPER BELL, MARGARITA, ST PAUL, SAN LUIS, SAN FRANCISCO, BUENA VISTA, SAN MAGUEL, COPER TOP, ALBA, CIMARRON, WASHINGTON, SAN FERNANDO, COLOMBIA, and COPPER KING 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 instruc-

tions furnished by the United States Surveyor-General for Arizona.

_____Martin Waer Jr._____, *Chainman.*

_____, *Chainman.*

_____, *Acman.*

_____, *Flagman*

Subscribed and sworn to by the above-named persons before me this 11th

day of May, 1925

My Commission expires Feb. 6, 1928

_____Mabelle Hess_____
Notary Public

FINAL OATH OF U. S. MINERAL SURVEYOR.

I, T.N. Stevens, U. S. Mineral Surveyor, do solemnly swear that, in pursuance of instructions received from the United States Surveyor General for Arizona, dated March 21, 1925, 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 Union Copper Mining Company

known as the COPER CRUN, COPER QUEEN, COPER BELL, MARGARITA, ST PAUL, SAN LOUIS, SAN FRANCISCO, BUENA VISTA, SAN MAGUEL, COPER TOP, ALBA, CIMARRON, WASHINGTON, SAN FERNANDO, COLOMBIA and COPER KING lodes situate in Amole Mining District,

Pima County, Arizona, in Section 29, 30, 31, 32, Township No. 13 S., Range No. 12 E.

and designated as Survey No. 3978, 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.

T.N. Stevens
U. S. Mineral Surveyor.

Subscribed and sworn to by the said T.N. Stevens
U. S. Mineral Surveyor, before me Maebelle Hess, a notary Public
in and for the county of Pima this 11th
day of May, 1925

my Commission expires Feb. 6, 1928

Maebelle Hess
notary Public

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

Department of the Interior,

66

OFFICE OF U. S. SURVEYOR-GENERAL,

Phoenix, Arizona.

June 23, 1925.

I, U. S. Surveyor-General for Arizona

do hereby certify that the foregoing transcript of the Field Notes, return and approval of the survey of the mining claim of Union Copper Mining Company, known as the COPER CRUN, COPER QUEEN, COPER BELL, MARGARITA, ST. PAUL, SAN LUIS, SAN FRANCISCO, BUENA VISTA, SAN MAGUEL, COPER TOP, ALBA, CIMARRON, WASHINGTON, SAN FERNANDO, COLOMBIA, and COPER KING lodes situate in Amole

Mining District, Pima County, Arizona

in Sections 29, 30, 31, 32, Township No. 13 S., Range No. 12 E., and

designated as Survey No. 3978, 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 improved or for each of
 or for each of
 ments made upon said mining claims by claimant or its grantors, and that said improvements consist of 12 shafts, 25 cuts, 5 tunnels, 8 drifts and 1 upraise, total value \$32,250.

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.

Charles M. Donohoe

United States Surveyor-General for Arizona.

4-687

**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

June 23, 1925

I, U. S. Surveyor General for Arizona

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

Union Copper Mining Company

known as the
COPER CRUN, COPER QUEEN, COPER BELL, MARGARITA, ST. PAUL, SAN LUIS,
SAN FRANCISCO, BUENA VISTA, SAN MAGUEL, COPER TOP, ALBA, CIMARRON,
WASHINGTON, SAN FERNANDO, COLOMBIA, and COPPER KING lodes
situate in Amole mining district,

Pima County, Arizona

in Sections 29, 30, 31 & 32, Township No. 13 S., Range No. 12 E.

designated as Survey No. 3978

executed by T. N. Stevens, U. S. Mineral

Surveyor, April 13 - 30, 1925, under my instructions dated

March 21, 1925, 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.

Charles M. Dowd

U. S. Surveyor General for Arizona