

4-683

MINERAL SURVEY No. 4197

Arizona Land District

FIELD NOTES

OF THE SURVEY OF THE MINING CLAIM OF

Keystone Copper Mining Co.,

KNOWN AS THE

ERIKA, ERNEST, ULTIMO, HAGERMAN, CHARLES, INA, MARY, GUSTAVE, CALUMET, WOLFFME, DORA, LOUIE, and ELLA lodes

Cochise Mining District,

Cochise County, Arizona

Sections 25, 35, 36, 31, Township 15 S., Range Nos. 22 and 23 E.

Surveyed under instructions dated May 5, 1937

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

Claim located See location notices, 19

Survey commenced May 28, 1937

Survey completed July 10, 1937

Address of claimant Keystone Copper Mining Co., T.C. Miller, Sect., Dragoon, Arizona

DATES OF AMENDED LOCATIONS

See See location notices, herewith

Feet

MINERAL SURVEY NO. 4197

Mineral Survey No. 4197 was made with a Gurley mountain transit with horizontal limb 6.5 ins. diam. having two opposite verniers and full vertical circle, 5 ins. diam, having one double vernier. The verniers read to one minute of arc.

The instrument was in good condition at the time of the survey, and all adjustments were in good order. A P.M. altitude observation for azimuth and at noon on the meridian for latitude and time were made on a line of the survey, the details of which observations are shown in the calculation sheets, herewith submitted for examination.

All azimuths in this record are referred to the true meridian by the method of deflection angles, and calculated courses.

The lines were measured with a Lufkin steel tape, 500 ft. in length, graduated every foot, with the first and last foot graduations to tenths and hundredths. The tape was correct at the time of the survey

All lines and connections of this survey were run directly upon the ground.

The magnetic variation observed at each corner gave a uniform value of 14°45'E.,

ERIKA Lode.

Beginning at Cor. No.1 of the Erika lode, identical with Loc. mon. and Cor. No.1 Ernest lode of this Survey where I -

Set a steel post 2 ins. diam. with lead cap on top, 24 ins. above ground, set 18 ins. in the ground, and surrounded with md. of stone, cap stamped 1, Erika, 1-Ernest, - 4197, from which the 1/4 Cor. bet. Secs. 25 and 36, T. 15 S. R. 22 E. brs. N. 63°05' W., 591.02ft. dist. consisting of a limestone rock 8 x 10 ins. showing 18 ins. above ground, chiseled 1/4 on N. face.

No other bearings are available.

Thence S. 48°58'W.

303.0 To E. end center, identical with loc. Mon. and W. end center Ernest lode of this survey, where I -

Set a pine post 4 ins sq. by 4 ft. high, firmly in the ground and surrounded with md of stone, scribed E. Cr. Erika, W. Cr. Ernest.

606.0 To Cor. No.2, identical with Loc. Mon. and Cor. No.2 Ernest lode of this Sur. Where I -

Set a steel post 2 ins. diam. with lead cap on top, 24 ins. above ground, set 18 ins. in the ground, and surrounded with md of stone stamped 2 Ernest, 2 Erika -4197

No bearings are available

Thence N. 69°10'W.

150.0 Gulch brs. northeasterly.

240.0 To Cor. No.3, identical with Loc. Mon. and Cor. Nos. 1 and 4. Charles and Hagerman lodes respectively of this Sur. Where I -

Set a steel post 2 ins. diam. with lead cap on top 24 ins. above ground, set 18 ins. in the ground and surrounded with md. of stone, cap stamped 3 Erika, 1 CH, 4 H - 4197.

No bearings are available.

Feet.

MINERAL SURVEY No.4197
ERIKA Lode Cont'd.

Thence N. 68°04'10"W

1255.72 To Cor. No.4, identical with Loc. Mon. and Cor. No. 3 Hagerman lode of this Survey, Where I -

Set a steel post 2 ins. diam. with lead cap on top, 24 ins. above ground, set 18 ins. in the ground. and surrounded with md of stone. stamped 4 Erika, 3 H - 4197 .

No bearings are available.

Thence N. 48°58'E.,

303.0 To W. end center, identical with Loc. Mon. Where I-

Set a pine post 4 ins. sq. by 4 ft. high, set firmly in the ground and surrounded with md of stone, scribed W. Cr. Erika.

606.0 To Cor. No.5, identical with Loc. Mon. Where I -

Set a steel post 2 ins. Diam. with lead cap on top, 24 ins. above ground, set 18 ins. in the ground and surrounded with md of stone, stamped 5 Erika - 4197 .

No bearings are available.

Thence S. 68°14'46"E.

1380.0 Gulch brs. northeasterly.

1495.66 To Cor. No.1 and place of beginning.

ERNEST Lode.

Beginning at Cor. No.1 of the Ernest lode, which is identical with Cor. No.1 of the Erika lode of this Sur. and agrees with a corner of the location, heretofore described. whence the ^{Sec.} 1/4 Cor. Bet. Secs. 25 and 36, T. 15S., R. 22 E. brs. N. 63°05'W., 591.02ft. dist.

Thence S. 48°58'W.,

Thence S. 48°58'W.

303. To W. end center, identical with Loc. Mon. and E. end center Erika lode of this survey, heretofore described.

606.0 To Cor. No.2, which is identical with Cor. No.2 Erika lode of this survey, and agrees with a corner of the location, heretofore described.

Thence S. 69°10'E.

640.0 Road brs. northeasterly.

720.0 Fence brs. northeasterly.

1260.0 To Cor. Nos. 4 and 1, Charles and Ina lodes respectively of this survey, hereinafter described.

1500.00 To Cor.3, which is identical with Cor. No. 2 Ultimo lode of this Sur. and agrees with a corner of the location, Where I-

Set a steel post 2 ins. diam. with lead cap on top, 24 ins. above ground, set 18 ins in the ground and surrounded with md of stone, stamped 3 Ernest, 2 U - 4197.

No bearings are available.

Feet.	<p style="text-align: center;">MINERAL SURVEY NO . 4197. Ernest Lode - Cont'd.</p> <p style="text-align: center;">Thence N. 48°58'E.</p>
303.00	<p>To E. End Center, identical with Loc. Mon. and W. end center Ultimo lode. of this Sur. Where I -</p> <p>Set a pine post 4 ins. sq. by 4 ft. high, set firmly in the ground and surrounded with md. of stone. Scribed E. Cr., Ernest; W. Cr. U.</p>
340.00	<p>Telephone line brs. northwesterly.</p>
606.0	<p>To Cor. No.4 which is identical with Cor. No. 1. Ultimo lode of this Sur. and agrees with a corner of the location Where I -</p> <p>Set a steel post 2 ins. diam. with lead cap on top, 24 ins. above ground, set 18 ins. in the ground and surrounded with md of stone, stamped 4 Ernest, 1 U - 4197.</p> <p>No bearings are available.</p> <p style="text-align: center;">Thence N. 69°10'W.,</p>
365.0	<p>Telephone line brs. northwesterly.</p>
610.0	<p>Fence brs. northeasterly.</p>
680.00	<p>Road brs. northeasterly.</p>
1500.0	<p>To Cor. No.1 and place of beginning.</p>
<p>ULTIMO Lode.</p>	
<p>Beginning at Cor. No.1 of the Ultimo lode, which is identical with Cor. No.4 of the Ernest lode of this Sur. and agrees with a corner of the location, heretofore described, whence the 1/4^{Sec.} Cor. bet. Secs. 25 and 36, T. 15 S. R. 22 E. brs. N. 67°27'W.; 2088.63 ft. dist.</p> <p style="text-align: center;">Thence S. 48°58'W.</p>	
266.0	<p>Telephone line brs. northwesterly.</p>
303.0	<p>To W. End Center, identical with Loc. Mon. and E. end center Ernest lode of this Sur., heretofore described.</p>
606.0	<p>To Cor. No.2, which is identical with Cor. No.3 Ernest lode of this Sur. and agrees with a corner of the location, heretofore described.</p> <p style="text-align: center;">Thence S. 69°10'E.,</p>
460.0	<p>Telephone line brs. northwesterly.</p>
1260.00	<p>To Cor. No.4 Ina lode of this Sur. hereinafter described.</p>
1500.00	<p>To Cor. No.3, identical with Loc. Mon. Where I -</p> <p>Set a steel post 2 ins. diam. with lead cap on top, 24 ins. above ground, set 18 ins. in the ground and surrounded with md of stone. Stamped, 3 U - 4197 .</p> <p>No bearings are available.</p> <p style="text-align: center;">Thence N. 48°58'E.</p>
303.00	<p>To E. end center, identical with Loc. mon. where I -</p> <p>Set a pine post 4 ins sq by 4 ft. high, set firmly in the ground and surrounded with md of stone, scribed E. Cr. U.</p>
606.0	<p>To Cor. No.4, Identical with Loc. Mon. Where I -</p> <p>Set a steel post 2 ins. diam. with lead cap on top, 24 ins. above ground, set 18 ins. in the ground and surrounded with md of stone, Stamped 4 U - 4197.</p>

Feet.	MINERAL SURVEY No. 4197 ULTIMO Lode Cont'd.
	Thence N. 69°10'W.,
1500.00	To Cor. No.1 and place of beginning.
	HAGERMAN Lode.
	Beginning at Cor. No.1 of the Hagerman lode, identical with Loc. Mon. On line 2-3 Sur. No.1966 St. George Lode at S. 69°10'E. 106.1 ft. from Cor. No. 2. (Claimant unknown)
	Set a steel post 2 ins. diam. with lead cap on top, 24 ins. above ground, set 18 ins. in the ground and surrounded with md of stone, stamped 1 H - 4197, from which the Cor. to Secs. 25, 26, 36 and 36, T. 15 S. R. 22 E. brs. N. 57°57' 40"W., 685.76 ft. dist. consisting of a quartzite rock 8 x 10 ins. showing 12 ins. above ground, chiseled with 1 notch on the S. and 1 notch on the E. face.
	No other bearings are available.
	Thence N. 58°58'E.
75.00	To S.W. Cor. Sur. No.327 Southern lode, Claimant unknown
300.00	To W. end center, identical with Loc. Mon. Where I -
	Set a pine post 4 ins. sq by 4 ft. high, firmly in the ground and surrounded with md of stone, scribed W. Cr. H.
347.0	Road brs. northwesterly.
375.0	To S. end center Sur. No. 327, Southern lode.
660.00	Gulch brs. southeasterly.
669.77	To Cor. No.2, identical with Loc. Mon. and S.E. cor. Sur. No. 327 Southern Lode. Where I -
	Set a steel post 2 ins diam. with lead cap on top, 24 ins. above ground, set 18 ins. in the ground and surrounded with md of stone stamped 2 H - 4197, S - S.E - 327
	No bearings are available.
	Thence S. 60°15'E
199.03	To Cor. No.3 which is identical with Cor. No. 4 Erika lode of this Sur. and agrees with a corner of the location, heretofore described.
	Thence S. 68°04'10"E.
1255.72	To Cor. No.4, which is identical with Cor. Nos. 1 and 3, Charles and Erika lodes respectively, and agrees with a corner of the location, heretofore described. of this survey,
	Thence S. 58°58'W.
50.0	Gulch brs. easterly.
300.00	To E. End center, identical with Loc. Mon. and W. end center Charles lode of this Sur. Where I -
	Set a pine post 4 ins. sq by 4 ft. high, set firmly in the ground and surrounded with md of stone, Scribed E. Cr. H. W. Cr. Ch.
380.00	Road brs. southeasterly.

Feet.	MINERAL SURVEY No.4197 HAGERMAN Lode - Cont'd.
600.0	<p>To Cor. No.5, which is identical with Cor. No.2 , Charles lode, and on line 4-1 Mary lode, both of this Sur. and agrees with a corner of the location,</p> <p>Set a steel post 2 ins. diam. with lead cap on top, 24 ins. above ground, set 18 ins. in the ground and surrounded with md of stone, stamped 5 H, 2 Ch - 4197.</p> <p>No bearings are available .</p> <p>Thence N. 69°10'W.</p>
314.22	<p>To Cor. No.1, Mary lode of this Sur. and Cor. No.3, Sur. No.1966 St George Lode, hereinafter described.</p>
364.22	<p>Road brs. easterly</p>
934.22	<p>Road brs. northerly.</p>
1495.20	<p>To Cor. No.1, and place of beginning.</p> <p>CHARLES Lode.</p> <p>Beginning at Cor. No.1 of the Charles lode, identical with Cor. No.4 of the Hagerman and Cor. No.3 Erika lodes, both of this Sur. and agrees with a corner of the location, heretofore described, whence the 1/4^{3rd} Cor. Bet. Secs. 25 and 36 T. 15 S. R. 22 E. brs. N. 14°55'E., 600.26 ft. dist.</p> <p>Thence S. 58°58'W.</p>
300.0	<p>To W. end center, identical with E. end center Hagerman lode of this Sur. and agrees with the Loc. Mon, heretofore described.</p>
380.0	<p>Road brs. southeasterly.</p>
600.00	<p>To Cor. No.2, identical with Cor. No.5 Hagerman Lode, on line 4-1 Mary lode both of this Sur. and agrees with a corner of the location heretofore described.</p> <p>Thence S. 69°10'E.</p>
925.0	<p>Fence line brs. northeasterly.</p>
1185.78	<p>To Cor. Nos. 4 and 1, Mary and Gustave lodes respectively of this Sur. hereinafter described.</p>
1500.00	<p>To Cor. No.3, identical with Cor. No.2 Ina Lode of this Sur. and agrees with a corner of the location,</p> <p>Set a steel post 2 ins. diam. with lead cap on top, 24 ins. above ground, set 18 ins. in the ground and surrounded with md. of stone, stamped 3 Ch, 2 I - 4197.</p> <p>No bearings are available.</p> <p>Thence N. 58°58'E.</p>
300.0	<p>To E. end center, identical with Loc. mon. and W. end center Ina lode of this Sur. Where I -</p> <p>Set a pine post 4 ins. sq. by 4 ft. high, set firmly in the ground and surrounded with md of stone, Scribed E. Cr. Ch, W. Cr. I</p>
600.00	<p>To Cor. No.4, identical with Loc. Mon. and Cor. No. 1, Ina lode of this Sur. On line 2-3, Ernest lode of this Sur.</p> <p>Set a steel post 2 ins. diam. with lead cap on top, 24 ins. above ground, set 18 ins. in the ground and surrounded with md. of stone, stamped 4 Ch, 1 I - 4197.</p>

Feet.

MINERAL SURVEY No.4197
CHARLES Lode - Cont'd.

	No bearings are available. Thence N. 69°10'W.
540.0	Fence brs. northeasterly.
620.0	Road brs. northeasterly.
1260.00	To Cor. No.2 Erika and Ernest lodes of this Sur. heretofore described.
1410.0	Gulch brs. northeasterly.
1500.0	To Cor. No.1, and place of beginning. INA Lode.
	Beginning at Cor. No.1 of the Ina lode which is identical with Cor. No.4 of the Charles lode, on line 2-3 of the Ernest lode both of this Sur. and agrees with a corner of the location, heretofore described, whence the 1/4 ^{sec.} Cor. bet. Secs. 25 and 36, T. 15 S. R. 22 E. Brs. N. 48°14'47" W. 1672.11 ft. dist.
	Thence S. 58°58'W.
300.00	To W. end center, identical with Loc. Mon. and E. end center Charles lode of this Sur., heretofore described.
600.00	To Cor. No.2, which is identical with Cor. No.3 of the Charles lode of this Sur., and agrees with a corner of the location, heretofore described.
	Thence S., 69°10'E.,
1185.78	To Cor. No.4, Gustave lode of this Sur. hereinafter described.
1500.00	To Cor. No.3, identical with Loc. Mon. Where I - Set a steel post 2 ins. diam. with lead cap on top, 24 ins. above ground, set 18 ins. in the ground, and surrounded with md. of stone, stamped 3 I - 4197.
	No bearings are available. Thence N. 58°58'E.
20.00	Telephone line brs. northwesterly.
300.0	To E. end center, identical with Loc. Mon. where I - set a pine post 4 ins. sq. by 4 ft. high, set firmly in the ground and surrounded with md of stone, scribed E. Cr. I.
600.00	To Cor. No.4, On line 2-3 Ultimo lode of this Sur. and agrees with a corner of the location, Set a steel post 2 ins. diam, with lead cap on top, 24 ins. above ground, set 18 ins. in the ground and surrounded with md. of stone, Stamped 4 I - 4197.
	No bearings are available. Thence N.69°10'W.
800.00	Telephone line brs. northwesterly.
1260.0	To Cor. Nos. 3 and 2, Ernest and Ultimo lodes respectively of this

Feet.

MINERAL SURVEY No.4197
INA Lode - Cont'd.

Sur. heretofore described.

1500.00 To Cor. No.1 and place of beginning.

MARY Lode.

Beginning at Cor. No.1 of the Mary lode which is identical with ~~Cor.~~
Cor. No.3, Sur. No.1966 St. George lode, on line 5-1 Hagerman lode
of this Sur. and agrees with a corner of the location,

Set a steel post 2 ins. diam. with lead cap on top, 24 ins. above
ground, ~~set~~ 18 ins. in the ground and surrounded with md of stone,
Stamped 1 M - 4197, 3 St G - 1966/

From which the ^{Sec.} 1/4^{Cor.} bet. Secs. 25 and 36 T. 15 S., R. 22 E.,
brs. N. 51°02'E., 1237.67 ft. dist.

Thence S. 24°18'W.

Along line 3-4, Sur. No.1966 St George lode (~~Sec. 3, 22°18'W.,~~)

264.0 At fork in road, brs. easterly and southeasterly.

300.0 To W. end center, identical with Loc. Mon. where I -

Set a pine post 4 ins. sq by 4 ft. high, ~~set~~ firmly in the ground
and surrounded with md of stone. Scribed W. Cr. Mary.

300.6 To E. end center Sur. No. 1966, St George lode, hereinafter described.

600.0 Cor. No.2, identical with loc. mon. On line 2-3 Wolfrime lode of
this Sur. Where I -

Set a steel post 2 ins. diam. with lead cap on top, 24 ins. above
ground, ~~set~~ 18 ins. in the ground and surrounded with Md. of stone,
stamped 2 M - 4197.

Cor. No.4, Sur. No.1966 St. George lode brs. S. 24°18'W., 1.1 ft.
dist.

No other bearings are available.

Thence S. 69°10'E.

200.00 Road brs. southwesterly.

440.00 Road brs. southwesterly.

760.0 Fence brs. northeasterly.

1191.10 To Cors Nos. 3 and 1, Wolfrime and Dora. lodes, respectively, of
this Sur., hereinafter described.

1500.00 To Cor. No.3, which is identical with Cor. No.2 of the Gustave
lode of this Sur. and agrees with a corner of the location, Where I -

Set a steel post 2 ins. diam. with lead cap on top, 24 ins. above
ground, ~~set~~ 18 ins. in the ground, and surrounded with md. of stone,
stamped 3 M., 2 G - 4197.

No bearings are available.

Thence N. 24°18'E.

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DI

Feet.

MINERAL SURVEY No.4197
MARY Lode Cont'd.

300.00 To E. end center, identical with loc. Mon. and W. end center
Gustave lode of this Sur. Where I

Set a pine post 4 ins. sq by 4 ft. high, set firmly in the ground
and surrounded with md of stone, scribed E. Cr. M, W. Cr. G.

600.00 To Cor. No.4 which is identical with Cor. No.1 Gustave lode of
this Sur. and agrees with a corner of the location. Where I -

Set a steel post 2 ins. diam. with lead cap on top, 24 ins. above
ground, set 18 ins. in the ground and surrounded with md of stone,
stamped 4 M, 1 G - 4197.

No bearings are available.

Thence N. 69°10'W.

260.78 Fence brs. northeasterly.

1185.78 To Cor. Nos. 2 and 5, Charles and Hagerman lodes respectively of
this Sur. heretofore described.

1500.00 To Cor. No.1 and place of beginning.

GUSTAVE LODE.

Beginning at Cor. No.1 of the Gustave lode, which is identical with
Cor. No. 4 of the Mary lode of this Sur. and agrees with a corner of
the location, heretofore described, whence the 1/4^{Sec} Cor. bet. Secs.
25 and 36, T. 15 S. R. 22 E. brs. N. 18°31'39" W., 1383.5 ft. dist.

Thence S. 24°18'W.

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

600.00 To Cor. No.2, which is identical with Cor. No.3 Mary lode, and on
line 4-1 Dora lode both of this Sur. and agrees with a corner of
the location, heretofore described.

Thence S. 69°10'E.

1191.10 To Cor. No.4, Dora lode of this Sur., hereinafter described.

1500.00 To Cor. No.3, identical with Loc. Mon. Where I -

Set a steel post 2 ins. diam. with lead cap on top, 24 ins. above
ground, set 18 ins. in the ground and surrounded with md. of stone,
stamped 3 G. - 4197.

No bearings are available.

Thence N. 24°18'E.

300.00 To E. end center, identical with Loc. Mon. Where I

Set a pine post 4 ins. sq by 4 ft. high, set firmly in the ground
and surrounded with md. of stone, scribed E. Cr. G.

600.00 To Cor. No.4, identical with Loc. Mon. On line 2-3 Ina lode of this
survey, N. 69° 10' W. 314.22 ft. from Cor. No. 3.

Set a steel post 2 ins. diam. with lead cap on top, 24 ins. above
ground, set 18 ins. in the ground and surrounded with md. of stone
stamped 4 G - 4197.

Feet

MINERAL Survey No. 4197
GUSTAVE Lode Cont'd.

feet

No bearings are available.

Thence N. 69°10'W.

1185.78 To Cor. Nos. 2 and 3, Ina and Charles lodes respectively of this sur., heretofore described.

1500.00 To Cor. No. 1 and place of beginning.

CALUMET Lode.

Beginning at Cor. No. 1 of the Calumet lode, identical with Loc. mon. Where I -

Set a steel post 2 ins. diam. with lead cap on top, 24 ins. above ground, set 18 ins. in the ground, and surrounded with md of stone, stamped 1 C - 4197 from which,

The Cor. to Secs. 25, 26, 35 and 36 T. 15 S. R. 22 E. brs. N. 19°06'E., 732.5 ft. dist.

Thence S. 20°50'W.,

300.0 To W. end center, identical with Loc. Mon. Where I -

Set a pine post 4 ins. sq. by 4 ft. high, set firmly in the ground and surrounded with md. of stone, Scribed. W. Cr. C.

600.00 To Cor. No. 2, identical with Loc. Mon. Where I -

Set a steel post 2 ins. diam. with lead cap on top, 24 ins. above ground, set 18 ins. in the ground, and surrounded with md. of stone stamped 2 C - 4197.

No bearings are available.

Thence S. 69°10'E.

1486.34 To Cor. No. 3 which is identical with Cor. Nos. 1 and 2 Wolfrime and Louie lodes of this Sur. and agrees with a corner of the location, Where I -

Set a steel post 2 ins. diam. with lead cap on top, 24 ins. above ground, set 18 ins. in the ground and surrounded with md. of stone stamped. 3 C, 1 W., 2 L - 4197.

No bearings are available.

Thence N. 20°50'E.

40.00 Gulch brs. southeasterly.

300.00 To E. end center, identical with Loc. Mon. and W. end center Wolfrime lode of this Sur. Where I -

Set a pine post 4 ins. sq. by 4 ft. high, set firmly in the ground and surrounded with md. of stone, scribed E. Cr. C, W. Cr. W. -

599.16 Intersect line 4-1 Sur. No. 1966, St. George lode, at a point S. 69° 07' E. 978.18 ft. from Cor. No. 1

600.00 To Cor. No. 4, which is identical with Cor. No. 2 Wolfrime lode of this Sur. and agrees with a corner of the location, Where I -

Feet

MINERAL SURVEY No.4197

CALUMET LODE - Cont'd.

Set a steel post 2 ins diam, with lead cap on top, 24 ins. above ground, set 18 ins. in the ground and surrounded with md of stone, stamped 4 C, 2 W - 4197.

Cor. No.4, Sur. No. 1966 St George lode brs. S.68°57'50"E., 308.83 ft. dist.

Thence N. 69°10'W.

- 170.00 Road brs. northeasterly.
- 465.0 Gulch brs. Southerly.
- 650.00 Gulch brs. Southeasterly.
- 936.0 Gulch brs. Southeasterly.
- 978.18 To Cor. No.1, Sur. No. 1966 St George lode, hereinafter described.
- 1486.34 To Cor. No.1 and place of beginning.

WOLFRIME Lode.

Beginning at Cor. No.1 of the Wolfrime lode which is identical with Cor. Nos. 3 and 2, Calumet and Louie lodes respectively of this Sur. and agrees with a corner of the location, heretofore described.

Sec.

Whence the 1/4 Cor. bet Secs. 35 and 36 T. 15 S. R. 22 E. brs. S. 47°23' 13" W., 1277.13 ft. dist.

Thence W. 20°50'E.

- 40.00 Gulch brs. southeasterly.
- 300.00 To W. end center, identical with Loc. Mon. and east end center Calumet lode of this Sur., heretofore described.
- 599.16 Intersect line 4-1 Sur. No.1966 St George lode at a point from which Cor. No.4 brs. S. 69°07'E., 308.83 ft. dist.
- 600.00 To Cor. No.2, which is identical with Cor. No. 4 Calumet lode of this Sur. and agrees with a corner of the location, heretofore described.
- 308.90 To Cor. No.2 Mary lode of this Sur. and intersect line 3-4, Sur. No.1966 St George lode at a point from which Cor. No.4, brs. S. 24° 18'W., 1.1 ft. dist.
- 508.9 Road brs. southwesterly.
- 748.9 Road brs. southwesterly.
- 1068.90 Fence brs. southwesterly.
- 1500.00 To Cor. No.3 which is identical with Cor. No.1 Dora lode of this Sur. and agrees with a corner of the location, Where I -

Set a steel post 2 ins. diam. with lead cap on top, 24 ins. above ground, set 18 ins. in the ground, and surrounded with md of stone stamped 3 W, 1 D - 4197.

Feet.

MINERAL SURVEY NO. 4197
WOLFRIME Lode - Cont'd.

Thence S. 20°50'W.

225.00 Gulch brs. southeasterly.

300.00 TOOE. end center, identical with Loc. Mon. and W. end center Dora lode of this Sur. Where I -

Set a pine post 4 ins. sq by 4 ft. high, set firmly in the ground and surrounded with md. of stone, scribed E. Cr. W., W. Cr. D

600.00 To Cor. No.4 which is identical with Cor. Nos. 2, 3 and 3, Dora, Ella and Louie lodes respectively of this Sur. and agrees with a corner of the location, Where I -

Set a steel post 2 ins. diam. with lead cap on top, 24 ins. above ground, set 18 ins. in the ground and surrounded with md. of stone, stamped 4 W, 2 D, 3 E, 3 L - 4197

No bearings are available.

Thence N. 69°10'W.

740.0 Gulch brs. northeasterly.

875.0 Fence brs. northeasterly.

1130.0 Road brs. southwesterly.

1450.0 Gulch brs. southeasterly.

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

DORA Lode.

To Beginning at Cor. No.1 of the Dora lode which is identical with Cor. No.3 of the Wolfrime lode, on line 2-3 Mary lode, both of this survey and agrees with a corner of the location, heretofore described, whence -

The 1/4^{Sec.} Cor. bet. Secs. 25 and 36 T. 15 S. R. 22 E. brs. N.3°08'20"E., 1751.3 ft. dist.

No other bearings are available.

Thence S. 20°50'W.

225.00 Gulch brs. southeasterly.

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

600.00 To Cor. No.2, which is identical with Cor. Nos. 3, 3 and 4, Ella, Louie and Wolfrime lodes respectively of this Sur. and agrees with a corner of the location, heretofore described.

Thence S. 69°10'E.

1500.00 To Cor. No.3, which is identical with Cor. No.2 of the Ella lode of this Sur. and agrees with a corner of the location, Where I -

Set a steel post 2 ins. diam. with lead cap on top, 24 ins. above ground, set 18 ins. in the ground and surrounded with md of stone stamped 3 D, 2 E - 4197.

No bearings are available.

Thence N. 20°50'E.

Feet.	MINERAL SURVEY No.4197 DORA LODE - Cont'd.
300.00	To E. end center, identical with Loc. Mon. Where I - Set a pine post 4 ins. sq. by 4 ft. high, set firmly in the ground and surrounded with md of stone, scribed E. Cr. D.
430.0	Gulch brs. easterly.
600.0	To Cor. No.4, identical with Loc. Mon. on line 2-3 Gustave lode of this Sur. Where I - Set a steel post 2 ins. diam. with lead cap on top, 24 ins. above ground, set 18 ins. in the ground and surrounded with md of stone Stamped 4 D - 4197. No bearings are available. Thence N. 69°10'W.
1191.10	To Cor. Nos 2 and 3, Gustave and Mary lodes respectively of this Sur., heretofore described.
1500.00	To Cor. No.1 and place of beginning. LOUIE Lode. Beginning at Cor. No.1 of the Louie lode, identical with Loc. Mon. Where I- Set a steel post 2 ins. diam. with lead cap on top, 24 ins. above ground, set 18 ins. in the ground and surrounded with md. of stone stamped 1 L - 4197, Whence - The 1/4 ^{Sec.} Cor. bet. Secs. 35 and 36 T. 15 S. R. 22 E. brs. S.67°18'W., 787.5 ft. dist. Thence N. 20°50'E,
300.00	To W. end center, identical with Loc. Mon. Where I - Set a pine post 4 ins. sq. by 4 ft. high, set firmly in the ground and surrounded with md. of stone, scribed W. Cr. L.
600.00	To Cor. No.2, which is identical with Cor. Nos. 1 and 3, Wolfrime and Calumet lodes respectively of this Sur. and agrees with a corner of the location, heretofore described. Thence S. 69°10'E.
50.00	Gulch brs. southeasterly.
370.00	Road brs. southwesterly.
625.00	Fence brs. northeasterly.
760.00	Gulch brs. northeasterly.
1500.00	To Cor. No.3 which is identical with Cor. Nos. 4, 2 and 3, Wolfrime Dora and Ella lodes respectively of this Sur. and agrees with a corner of the location, heretofore described. Thence S. 20°50'W.
300.00	To E. end center, identical with Loc. Mon. and W. end center Ella lode of this Sur. Where I - Set a pine post 4 ins. sq by 4 ft. high, set firmly in the ground

Feet.

MINERAL SURVEY No.4197
LOUIE Lode - Cont'd.

and surrounded with md. of stone, scribed E. Cr. L, W. Cr. E

600.00 To Cor. No.4, which is identical with Cor. No.4 Ella lode of this Sur. and agrees with a corner of the location, Where I -

Set a steel post 2 ins. diam. with lead cap on top, 24 ins. above ground, set 18 ins. in the ground and surrounded with md. of stone, stamped 4 L, 4 E - 4197

No bearings are available.

Thence N. 69°10'W.

1265.00 Road brs. southerly.

1320.00 Fence brs. northeasterly.

1340.00 Gulch brs. northeasterly.

1500.00 To Cor. No.1 and place of beginning.

ELLA Lode.

Beginning at Cor. No.1 of the Ella lode, identical with Loc. Mon. Where I -

Set a steel post 2 ins. diam. with lead cap on top, 24 ins. above ground, set 18 ins. in the ground and surrounded with md. of stone, stamped 1 E - 4197. Sec.

Whence the S. 1/4, Cor. Sec. 36 T. 15 S. R. 22 E, brs. S. 24°19'W., 2077.45 ft. dist.

Thence N. 20°50'E.

300.00 To E. end center, identical with Loc. Mon. where I -

Set a pine post 4 ins. sq by 4 ft. high, set firmly in the ground and surrounded with md. of stone, scribed E. Cr. E.

600.00 To Cor. No.2, which is identical with Cor. No. 3, Dora lode of this Sur. and agrees with a corner of the location, heretofore described.

Thence N. 69°10'W.,

1500.00 To Cor. No.3, which is identical with Cor. Nos. 3, 4 and 2, Louie, Wolfrime and Dora lodes respectively of this Sur., heretofore described.

Thence S. 20°50'W.

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

600.00 To Cor. No.4, which is identical with Cor. No.4 Louie lode of this Sur. and agrees with a corner of the location, heretofore described.

Thence S. 69°10'E.

1500.00 To Cor. No.1 and place of beginning.

MINERAL SURVEY No.4197

LODE LINES.

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

Erika lode,	N.68°14'45"W.,	157.0 ft.	and S.68°14'45"E.,	1338.68 ft.
Ernest lode,	N.69°10'W.,	500.0 ft.	and S. 69°10'E.,	1000.00 ft.
Ultimo lode,	N.69°10'W.,	110.0 ft.	and S. 69°10'E.,	1390.00 ft.
Hagerman lode,	N.69°10'W.,	200.0 ft.	and S. 69°10'E.,	1295.20 ft.
Charles lode,	N.69°10'W.,	308.0 ft.	and S. 69°10'E.,	1192.0 ft.
Ina lode,	N.69°10'W.,	100.0 ft.	and S. 69°10'E.,	1400.0 ft.
Mary lode,	N.69°10'W.,	340.0 ft.	and S. 69°10'E.,	1160.0 ft.
Gustave lode,	N.69°10'W.,	75.0 ft.	and S. 69°10'E.,	1425.0 ft.
Calumet lode,	S.69°10'E /,	120.0 ft.	and N. 69°10'W.,	1366.34 ft.
Wolfrime lode,	N.69°10'W.,	270.0 ft.	and S. 69°10'E.,	1230.0 ft.
Dora lode,	N.69°10'W.,	100.0 ft.	and S. 69°10'E.,	1400.0 ft.
Louie lode,	N.69°10'W.,	658.0 ft.	and S. 69°10'E.,	842.0 ft.
Ella lode,	N.69°10'W.,	118.0 ft.	and S. 69°10'E.,	1382.0 ft.

Areas.

	Acres.
Total area, Erika lode -----	18.571.
Total area, Ernest lode -----	18.402
Total area, Ultimo lode -----	18.402
Total area, Hagerman lode -----	16.751
Total area, Charles lode -----	16.252
Total area, Ina lode -----	16.252
Total area, Mary lode -----	20.623
Total area, Gustave lode -----	20.623.
Total area, Calumet lode -----	20.473
Area in conflict with -	
Sur. No.1966, St George lode -----	0.009
Total area, Wolfrime lode -----	20.661
Area in conflict with-	
Sur. No. 1966 St. George lode -----	0.007
Total area, Dora lode -----	20.661
Total area, Louie lode -----	20.661
Total area, Ella lode -----	20.661

MINERAL SURVEY No.4197

LOCATION.

This survey is located in S.W. 1/4 Sec. 25, N.E. 1/4 Sec. 35, & in Sec. 36, T.15 S. R. 22 E. and N.W. 1/4 Sec. 31, T.15 S., R. R.23 E. G. & S. P.M.

The survey is identical with the respective locations as marked on the ground.

EXPENDITURE OF \$500.

I certify that the value of the labor and improvements made upon or for the benefit of each of the lode locations embraced in said mining claim by the claimant or its grantors is not less than \$500, and that said improvements consist of :

ERIKA LODE

No.1 The discovery shaft of the Erika lode, the center of which being the discovery point is on the lode line, S. 68°14'45" E., 157.0 ft. from the center of line 4-5; 4x6 ft. 8 ft. deep (caved) Value \$100.0

No.2 A shaft, the center of which brs. from Cor. No.5, S. 37°30'W., 265 ft. dist. 4 x 6 ft. 8 ft. deep (caved) Value \$100.0

An undivided 1/13 interest in improvement No.5, Hagerman lode of this Sur., hereinafter described, credited to this lode, Value \$3600.00

ERNEST Lode.

No.1 The Discovery shaft of the Ernest lode, the center of which being the discovery point, is on the center line, 500 ft. from the center of line 1-2, 4 x 6 ft. 8 ft. deep (caved) Value \$100.00

An undivided 1/13 interest in improvement No.5, Hagerman lode of this Sur., hereinafter described, credited to this lode. Value \$3600.00

ULTIMO Lode.

No.1 The discovery shaft of the Ultimo lode, the center of which being the discovery point, is on the center line, 110 ft. from the center of line 1-2, 4 x 6 ft. 8 ft. deep. Value \$100.00

An undivided 1/13 interest in improvement No.5, Hagerman lode of this Sur., hereinafter described, credited to this lode. Value \$3600.00

HAGERMAN Lode.

No.1 The discovery shaft of the Hagerman lode, the center of which being the discovery point, is on the lode line 200 ft. from a point on line 1-2 300 ft. from Cor. No.1, 4 x 6 ft. 10 ft. deep. Value \$100.00

No.2 An inclined shaft, the center of which brs. from Cor. No. 2 S.55°30'W., 300 ft. 4 x 6 ft. 50 ft. deep. Value \$500.00

MINERAL SURVEY No.4197
EXPENDITURE OF \$500.00
HAGERMAN Lode - Cont' d.

No.3 A cut, the S.W. Cor. of which brs. from Cor. No.3, S. 59°30'E.,
565. ft. 10 x 24 ft. 4 ft. deep (roofed over) course of long sides
N.35E.
Value \$400.0

No.4 A shaft, the center of which brs. from Cor. No. 5, N.54°E., 250.0
ft. 4 x 6 ft. 8 ft. deep.
Value \$100.0

No.5 A shaft, the center of which brs. from Cor. No.1, S. 78° E., 655 ft.
8 x 10 ft. 650 ft. deep. (lined with concrete to 500 ft. level and
timbered below)
At the 110 ft. level is a drift 5 x 7 ft., running N.45°W., 100 ft.
to breast.
At the 327 ft. level is a cross-cut 5 x 7 ft., running S.35°W., 235
ft. to breast.
At the 500 ft. level is a cross-cut 5 x 7 ft. running N.32°E., 238
ft. to point, thence East 100 ft. to breast.
At the 600 ft. level is a drift 5 x 7 ft. running S. 65° E. -150
ft. to breast.
Value of shaft, drifts and cross-cuts \$46,800.

This improvement is in course of construction for the development
of the 13 lodes of this survey. The surface is generally level with
a slight slope to the east . The extension in their present course
of the drifts and cross-cuts , affords the most practical and
economical means of developing each of the stated lodes at depth.

Five hundred dollars or over has been expended in this improvement
in such a manner as tends to the development of each lode of this
survey subsequent to its location and to the time since which common
ownership and contiguity have prevailed; therefore an undivided 1/13
interest in its value is hereby credited to each of said lodes.

No portion or interest in this improvement has been credited
heretofore as patent expenditures to any other lode claim.

Value of 1-13 interest credited to this claim, \$3,600.

CHARLES Lode.

No.1 The discovery point of the Charles lode is on the center line
308 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 , S. 21°30'E.,
200 ft. 4 x 6 ft. 8 ft. deep.
Value \$100.0

No.3 A shaft, the center of which brs. from Cor. No.2, N. 65°E., 320.0
ft. 4 x 6 ft. 4 ft. deep.
Value \$40.0

No.4 A shaft, the center of which brs. from Cor. No.2, N. 87°E., 255.0 ft.,
4 x 6 ft. 10 ft. deep.
Value \$100.0

An undivided 1/13 interest in improvement No.5, Hagerman lode
of this Sur. heretofore described, credited to this lode.
Value \$3600.0

INA Lode.

No.1 The discovery shaft of the Ina lode, the center of which being the
discovery point, is on the center line , 100 ft. from the center of
line 1-2, 4 x 6 ft. 8 ft. deep (Caved)
Value \$100.

No.2 A shaft, the center of which brs. from C
4x6 ft., 4 ft. deep, (caved), Value \$40. or.No.3, N.40° E. 75 ft.,

MINERAL SURVEY No.4197.
EXPENDITURE OF \$500.0
INA Lode - Cont'd.

An undivided 1/13 interest in improvement No.5, Hagerman lode of this Sur. heretofore described, credited to this lode.
Value \$ 3600.0

MARY Lode.

- No.1 The discovery shaft of the Mary lode is on the center line , 340. ft. from the center of line 1-2, 4 x 6 ft. 8 ft. deep (caved)
Value \$100.0
- No.2 A shaft, the center of which brs. from Cor. No. 1, S.54°10'E., 540. ft. 5 x 6 ft. 30 ft. deep.
Value \$300.0
- No.3 A shaft, the center of which brs. from Cor. No.1 S.22°45'E. 340 ft. 4 x 6 ft. 8 ft. deep.
Value \$100.0
- No.4 A shaft, the center of which brs. from Cor. No.1 S. 10°42'E.,305.0 ft. 6 x 8 ft. 3 ft. deep.
Value \$40.0
- No.5 A shaft, the center of which brs. from Cor. No. 2, N.41°18'E.,145.0 ft. 4 x 6 ft. 5 ft. deep (Caved)
Value \$50.0
- No.6 A shaft, the center of which brs. from Cor. No. 2, N.72°48'E., 280.0 ft. 4 x 6 ft. 3 ft. deep (caved)
Value \$30.0
- No.7 A shaft, the center of which brs. from Cor. No.2, S. 87°12'E., 560.0 ft, 4 x 6 ft. 5 ft. deep (caved)
Value \$50.0

An undivided 1/13 interest in improvement No.5, Hagerman lode of this Sur. , heretofore described, credited to this lode.
Value \$3600.0

GUSTAVE Lode.

- No.1 The Discovery shaft of the Gustave lode, the center of which being the discovery point , is on the center line , 75 ft. from the center of line 1-2, , 4 x 6 ft. 8 ft. deep (Caved)
Value \$100.0

An undivided 1/13 interest in improvement No.5, Hagerman lode of this Sur., heretofore described, credited to this lode.
Value \$3600.0

CALUMET Lode.

- No.1 The discovery point of the Calumet lode, is on the center line 120.0 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, N. 0° 35'E., 370. ft. 4 x 6 ft. 8 ft. deep.
Value \$100.00.
- No.3 A shaft, the center of which bts from Cor. No.3, N.1°50'E., 590.0 ft. 4 x 6 ft. 8 ft. deep. -
Value \$100.0
- No.4 A trench the W. end of which brs. from Cor. No.3 , N. 4°50'E., 380 ft. 8 ft. wide, 8 ft. deep, running S. 70° E., 30 ft.
Value \$700.0

MINERAL SURVEY No. 4197
 EXPENDITURE OF \$500.00
 CALUMET Lode - Cont'd.

- No.5 A shaft, the center of which brs. from Cor. No.3, N. 10°20'E.,
 370.0 ft. 6 x 8 ft. 6 ft. deep.
 Value \$70.0
- No.6 A shaft, the center of which brs. from Cor. No.3, N. 2° W., 560.0
 ft. 4 x 6 ft. 5 ft. deep.
 Value \$50.0
- No.7 A shaft, the center of which brs. from Cor. No.3, N. 1°55'W.,
 530. ft. 4 x 6 ft. 5 ft. deep.
 Value \$50.0
- No.8 A shaft, the center of which brs. from Cor. No.3, N. 4°20'W.,
 530.0 ft. 4 x 6 ft. 10 ft. deep.
 Value \$100.0
- No.9 A shaft, the center of which brs. from Cor. No.3, N. 12°20'W.,
 625.0 ft. 4 x 6 ft. 10 ft. deep.
 Value \$100.0
- No.10 A shaft, the center of which brs. from Cor. No.3, N. 9°20'W.,
 660.0 ft. 4 x 6 ft. 5 ft. deep.
 Value \$50.0
- No.11 A trench, the east end of which brs. from Cor. No.3, N. 9°20'W.,
 675.0 ft. running S 78°W., 60 ft. to W. end., 5 ft. wide, 12' deep.
 Value \$1000.0
- An undivided 1/13 interest in improvement No.5, Hagerman lode of
 this Sur., heretofore described, credited to this lode.
 Value \$3600.0
- WOLFRIME Lode.
- No.1 The discovery point of the Wolfrime lode is on the center line,
 270 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.64°50'E.,
 380.0 ft. 6 x 8 ft. 60 ft. deep.
 Value \$900.0
- No.3 A shaft, the center of which brs. from Cor. No.1, N.28°05'E., 375.0 ft.
 4 x 6 ft. 12 ft. deep.
 Value \$120.0
- No.4 A shaft, the center of which brs. from Cor. No.1, N.24°50'E., 410.0
 ft., 4 x 6 ft. 12 ft. deep. Value \$120.0
 An undivided 1/13 interest in improvement No.5, Hagerman lode of this
 Sur., heretofore described, credited to this lode. - Value \$3600.0
 DCRA Lode.
- No.1 The discovery shaft of the Dora lode, the center of which being the
 discovery point is on the center line, 100 ft. from the center of
 line 1-2, 4 x 6 ft. 8 ft. deep (Caved) Value \$100.0
 An undivided 1/13 interest in improvement No.5, Hagerman lode of this
 Sur., heretofore described, credited to this lode - Value \$3600.0
 LOUIE Lode.
- No.1 The discovery point of the Louie lode, is on the center line 658
 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 S.88°25'E., 675.0 ft.
 4 x 6 ft. 8 ft. deep. (caved)
 Value \$100.0

MINERAL SURVEY No. 4197
EXPENDITURE OF \$500.
OTHER IMPROVEMENTS - Cont'd.

A frame house the S.W. Cor. of which brs. from Cor. No.2, Mary lode S. 78°42'E., 820 ft. Course of long sides N.57°E. 30 x 30 ft.

An adobe dwelling, the N.E. Cor. of which brs. from Cor. No.4 Calumet lode N. 77°45'W., 105 ft., 48 x 50 ft. Course of long sides, N. 20°30'E.

A frame, iron clad pump house, the S.W. Cor. of which brs. from Cor. No.1 Louie lode, N. 81°50'E., 135 ft. 8 x 15 ft. course of long sides N. 79° E.

All the above belonging to claimant herein.

OTHER CORNER DESCRIPTIONS.

Sur. No.327 Southern lode; The SW.Cor. and S. end center are pine posts surrounded with md. of stone. the markings cannot be distinguished The S.E. Cor. consists of a very old md. of stone with decayed 4 x 4 in. pine post. I set a 2 in. steel post in the exact position of the original corner, as described in the foregoing field notes. The S. end line fails to furnish the course and distance as approved (S58°30'W., 600 ft) and same is properly given in these field notes.

Sur. No 1966 St. George lode; Cor. No.1 . All that remains of this Corner is a very old md. of stone with decayed pine post in the center of the monument. Its identity was established from its relative position from the other corners of the Survey. I reestablished this Cor. by setting a 2 in. steel post in the exact position of the original corner, stamped 1 St G. - 1966. The W. end center consists of a md of stone.

Cor. No.2 consists of a very old, partly decayed pine post in md of stone about 4 ft. base by 3 ft. high. The scribing "St. G. 1966" is plainly visible. Cor. No.3 consisted of a pine post 4 ins sq. by 4 ft. high, in md of stone. No scribings were visible. As this post was found unsuitable as a permanent Cor. I set a steel post 2 ins. diam. in its exact position and same is heretofore described in the foregoing field notes.

The E. end center consists of a very old 3 x 4 in. pine post 4 ft. high, and surrounded with md. of stone, scribed "S E -E-Ct. 36" Cor. No.4 consists of a pine post 4 ins. sq. by 4 ft. high, in md. of stone, No scribings are visible.

Line 1-2 was found to be N.24°18'E., 600 ft. instead of N.22°18'30"E 601.1 ft. as approved.

Line 2-3 was found to be S.69°10'E., 1287.08 ft. instead of S.70°11'30" E. 1286.6 ft. as approved.

Line 3-4 was found to be S. 24°18'W., 601.1 ft. instead of S. 22°18'30" W., 601.1 ft. as approved.

Line 4-1 was found to be N. 69°07'W., 1287.01 ft. instead of N.70°11'30" W. 1286.6 ft. as approved.

A diligent search was made for. the Cor. to Secs. 25,36, 30, 31, and the E. 1/4^{5th} Cor. Sec. 36, T.15 S. R. 22 and 23 E. and same are found to have become obliterated, leaving no evidence of their original positions.

ADJOINING CLAIMS.

On the North by Maher Fraction lode; O.K lode and Gladys lode, uns., belonging to claimant herein.

On the West by Sur. No 1966, St. George lode, Sur. No.327 Southern lode, Claimants unknown.

REPORT ON SECTION LINES.

The W¹/₂ of the N.Bdy.of Sec.36 I find to be N.89°53'W.2647.4 ft.instead of W. 2640 ft., the W.Bdy. to be North 2646.82 ft.,thence N.0° 05' E. 2646.24 ft., instead of N. 0° 03' W. 5282.64 ft., the W¹/₂ of the S.Bdy. to be N.89° 48' W. 2674.93 ft.instead of N.89°48'W. 2661.12 ft.

MINERAL SURVEY No.4197
EXPENDITURE OF \$500.0
LOUIE Lode Cont'd.

No.3 A shaft, the center of which brs. from Cor. No.1, N.33°20'E.,
180.0 ft. 8 x 8 ft., 6 ft. deep. (caved)
Value \$100.

An undivided 1/13 interest in improvement No.5, Hagerman lode of
this Sur., heretofore described, credited to this lode.
Value \$3600.0

ELIA Lode.

No.1 The discovery shaft of the Ella lode, the center of which being
the discovery point, is on the center line, 118 ft. from the
center of line 3-4. 4 x 6 ft. 8 ft. deep (caved)
Value \$100.0

An undivided 1/13 interest in improvement No.5, Hagerman lode of
this Sur., heretofore described, credited to this lode.
Value \$3600.0

OTHER IMPROVEMENTS.

A frame (iron clad) mill building, the N.W. Cor. of which brs.
from Cor. No.2, Hagerman lode, S.30°15'E., 340.0 ft. 40 x 150 ft.
course of long sides, S.37°W. At a point S.37°W., 60 ft. from N.E.
Cor. of Mill building is the N.W. Cor. of a frame (iron clad)
engine and power house, 36 x 60 ft. course of long sides S.53°E.

A frame (iron clad) hoist house, the S.W. Cor. of which brs. from
Cor. No. 1 Hagerman lode, S. 70°45'E., 618. ft. 20 x 30 ft. course
of long sides N.37°E.

An adobe dwelling and store, the S.W. Cor. of which brs. from Cor.
No.1 Hagerman lode, S. 69°30'E., 455 ft. 30 x 80 ft. course of long
sides, S. 16°W.,

A frame dwelling, the S.W. Cor. of which brs. from Cor. No. 1
Hagerman lode, S. 87°E., 470 ft. 18 x 20 ft. Course of long sides
S. 74°E.

A frame dwelling, the S.W. Cor. of which brs. from Cor. No.1,
Hagerman lode, N.89°30'E., 495. ft. 18 x 40 ft. course of long
sides N. 16°E.

A frame dwelling, the S.W. Cor. of which brs. from Cor. No.1
Hagerman lode, N.82°30'E., 510. ft. 18 x 30 ft. Course of long
sides S. 74° E.

A frame assay office the N.W. Cor. of which brs. from Cor. 2
Hagerman lode, S. 10°30'E., 320. ft. 10 x 18 ft. course of long
sides N. 70° W.

An adobe dwelling, the S.E. Cor. of which brs. from Cor. No.1
Mary lode, N. 67°10'W., 220.0 ft. 16 x 24 ft. Course of long sides
N.32°E.,

An adobe dwelling, the S.E. Cor. of which brs. from Cor. No.1
Mary lode, N.67°20'W., 250. ft. 16 x 24 ft. course of long sides
N.32°E.,

An adobe dwelling, the S.E. Cor. of which brs. from Cor. No.1
Mary lode, N. 67°30'W., 275. ft. 16 x 24 ft., course of long sides
N.32°E.

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 Keystone Copper Mining Co.
 known as the ERIKA, ERNEST, ULTIMO, HAGERMAN, CHARLES, INA, MARY, GUSTAVE,
CALUMET, WOLFRIME, DORA, LOUIE, and ELIA lodes.
 and showing the respective capacities in which they acted.

Henry Waer, Chainman.
 _____, Chainman.
 _____, Axman.
 _____, Flagman.

FINAL OATHS OF ASSISTANTS

~~we~~, I Henry Waer
 and _____, do solemnly swear that we assisted T.N. Stevens
 _____, ~~United States~~ Mineral Surveyor, in marking the corners and surveying
 the boundaries of the mining claim of Keystone Copper Mining Co.

known as the ERIKA, ERNEST, ULTIMO, HAGERMAN, CHARLES, INA, MARY, GUSTAVE,
CALUMET, WOLFRIME, DORA, LOUIE, and ELIA 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 Office Cadastral Engineer, at Phoenix, Ariz.

Henry Waer, Chainman.
 _____, Chainman.
 _____, Axman.
 _____, Flagman

Subscribed and sworn to by the above-named persons before me this 20th

day of July, 1937.

*My Commission Expires
 Jan. 30 - 1938.*

*John R. Riches
 Notary Public*

DEPARTMENT OF THE INTERIOR
GENERAL LAND OFFICE

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 Office Cadastral
Engineer, at Phoenix, Arizona, dated May 5, 1937,
I have, in strict conformity to the laws of the United States, the official regulations
and instructions thereunder, and the instructions of said Office Cadastral Engineer,
faithfully and correctly executed the survey of the mining claim of
Keystone Copper Mining Co., known as the
ERIKA, ERNEST, ULTIMO, HAGERMAN, CHARLES, INA, MARY, GUSTAVE, CALUMET, WOLFRIME,
DCRA, LOUIE, and ELLA Lodes.
situate in Cochise ~~Mining Dist.~~ Mining District,
Cochise County, Arizona, in Section
25, 35, 36, 31, Township No. 15 S., Range No. 22 and 23 E.
and designated as Survey No. 4197, as represented
in the foregoing field notes, which accurately show the boundaries of said mining claim
as distinctly marked by monuments on the ground, and described in the attached copy of
the location certificate, which was received by me from the Office Cadastral Engineer
with said instructions, and that all corners of said survey have been established and
perpetuated in strict accordance with the law, official regulations and instructions
thereunder; and I do further solemnly swear that the foregoing are the true and original
field notes of said survey and my report therein, and that the labor expended and im-
provements 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 in-
cluded 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 Tom K. Richey,
Notary Public this 20th
day of July, 1937,
my Commission Expires Jan 30, 1938.

Tom K. Richey
Notary Public

OFFICE CADASTRAL ENGINEER'S FINAL CERTIFICATE ON FIELD NOTES

Department of the Interior

PUBLIC SURVEY OFFICE

Phoenix, Arizona,

November 8, 1937.

I, Office Cadastral Engineer at Phoenix, Arizona,

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

Keystone Copper Mining Co.

known as the ERIKA, ERNEST, ULTIMO, HAGERMAN, CHARLES, INA, MARY, GUSTAVE, CALUMET, WOLFRIME, DORA, LOUIE, and ELLA lodes

situate in Cochise

Mining District Cochise County Arizona

in Section 25, 35, 36 Township No. 15 S., Range No. 22 E., and 31 15 S. 23 E. and designated as Survey No. 4197, has been correctly copied from the originals on file in

this office; that said Field Notes furnish such an accurate description of said mining claim as will, if incorporated into a patent, serve fully to identify the premises, and that such reference is made therein to natural objects or permanent monuments as will perpetuate and fix the locus thereof.

I further certify that Five Hundred Dollars worth of labor has been expended or improvements made upon, or for the benefit of, each location embraced in said mining claim by claimant or its grantors,

and that said improvements consist of 36 shafts, 1 cut and 2 trenches, with 823 ft. of drifts and crosscuts, total value \$53,310.

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.

Sherman C. Fiske

Office Cadastral Engineer.

CERTIFICATE OF APPROVAL OF FIELD NOTES AND SURVEY OF
MINING CLAIM

DEPARTMENT OF THE INTERIOR
PUBLIC SURVEY OFFICE

At Phoenix, Arizona,

November 8, 19 37

I, Office Cadastral Engineer at Phoenix, Arizona

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

Keystone Copper Mining Co.

_____, known as the
ERIKA, ERNEST, ULTIMO, HAGERMAN, CHARLES, INA, MARY, GUSTAVE,
CALUMET, WOLFRIME, DORA, LOUIE, and ELLA lodes

situate in _____ Cochise _____ mining district,

Cochise County, Arizona

in Section s 25, 35, 36, Township No. _____ 15 S. _____, Range No. 22 E., and
31 _____ 15 S. _____ 23 E.
_____, designated as Survey No. _____ 4197

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

Surveyor, _____ May 28 - July 10 _____, 19 37, under my instructions dated

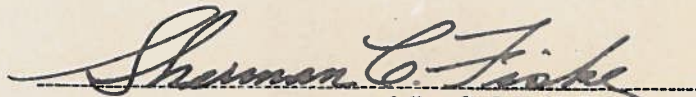
_____ May 5 _____, 19 37, have been critically examined and the necessary

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.


Office Cadastral Engineer.