

MINERAL SURVEY No. 4167

ARIZONA Land District

FIELD NOTES

OF THE SURVEY OF THE MINING CLAIM OF

Western Copper & Mining Co.

KNOWN AS THE

Detroit No. 4, Detroit No. 14, Detroit No. 15, Detroit No. 16,
Detroit No. 17, Detroit No. 18, Detroit No. 19, Detroit No. 20
Detroit No. 21, Detroit No. 22, Detroit No. 23, Detroit No. 24
Detroit No. 25, Detroit No. 26

Greenlee Gold Mountain Mining District,

Greenlee County, Arizona

Sections 13, 14,
15, 23, Township 4 S, Range 29 E
G. & S. R. B. & M.

Surveyed under instructions dated August 9,, 1933

By Ralph L. Motz
U. S. Mineral Surveyor.

Claim located _____, 19____

Survey commenced November 1,, 1933

Survey completed November 15,, 1933

Address of claimant's attorney, Cleon T. Knapp,
Consol. Nat. Bank. Bldg.,
Tucson, Arizona.

DATES OF AMENDED LOCATIONS

March 7, 9, 10 and 24, 1931

*Supplemental Field Notes approved June 20, 1935,
pertaining to ~~Detroit No. 15~~, Detroit No. 15, and
Detroit No. 26 lodes, ~~and~~ are attached hereto.*

Feet

Mineral Survey No. 4167 was made with a Gurley & Sons Precise Transit, Light Mountain model, with horizontal limb 6.25 inches in diameter, having two double opposite verniers, and full vertical circle 5 inches in diameter, having one double vernier; the verniers read to one minute of arc; the eye piece is equipped with a prismatic eye piece with colored glass slide for making direct observations upon the sun. The instrument was in good condition at the time of survey and all adjustments were in good order. An a.m. altitude observation of the sun for time and azimuth, and at noon on the meridian for latitude, were made at Cor. No. 2 of the Detroit No. 18 lode, 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 thus determined, by the method of deflection angles and calculated courses.

The lines were measured with a Lufkin steel tape, 150 feet in length, graduated to feet, tenths and hundredths for entire length; a Kueffel & Esser steel tape, 300 feet in length, graduated to feet, tenths and hundredths for entire length; and a Lufkin steel tape, .25 feet in length, graduated to feet, inches and fractions of inches for entire length. All tapes were compared with a Lufkin standard at the time of beginning the survey, and found correct.

All lines and connections of this survey were run by direct methods.

The magnetic variation observed at each corner of the survey gave a uniform value of 13° 50' E.

DETROIT NO. 24

Beginning at Cor. No. 1 of the Detroit No. 24 lode, where I

Set a granite rock 26x9x5 ins., 16 inches in the ground, for Cor. No. 1, marked D24-1-4167; D26-1-4167

Identical with Cor. No. 1 of the Detroit No. 26 lode of this survey; from which

A pine post 4 feet long, 4 inches square set 18 inches in the ground in a mound of rocks, bears S 52° 53' W 5.0 ft.

The West 1/4 Cor. of Sec. 13, T 4 S, R 29 E, G & S R B & M; an iron post, 1 in. diam., 12 inches above ground, firmly set, with brass cap properly marked bears, S 79° 37' E 416.6 ft. dist.

Thence S 52° 53' W

Original location for the south end center, identical with the north end center of the Detroit No. 26 lode of this survey, being a mound of rocks 3 feet high with 3 feet base

Cross gulch, 30 feet wide, course southeasterly

Cor. No. 2

Identical with Cor. No. 4 of the Detroit No. 26 lode of this survey and with the east end center of the

Feet

Detroit No. 23 lode of this survey
 Set a granite rock 27x9x4 ins., 17 inches in the ground for Cor. No. 2, marked D24-2-4167; D26-4-4167; EEC-D23-4167; from which
 A monument of rocks 3 feet high with 3 feet base bears N 43° 22' W 4.6 ft.
 A granite rock in place 13x21 ins., 23 inches above ground bears N 85° 23' W 4.2 ft., marked BR x D24-2-4167
 Thence N 43° 22' W

300.0 Cor. No. 4 of the Detroit No. 23 lode and Cor. No. 1 of the Detroit No. 22 lode, both of this survey

435.0 Cross gulch, 25 feet wide, course southeasterly

600.0 East end center of the Detroit No. 22 lode of this survey

900.0 Cor. No. 4 of the Detroit No. 22 lode and Cor. No. 1 of the Detroit No. 4 lode, both of this survey

1200.0 East end center of the Detroit No. 4 lode of this survey

1500.0 Cor. No. 3
 Identical with Cor. No. 4 of the Detroit No. 4 lode of this survey and situated on line 3-4 of Survey No. 4165 Detroit No. 3 lode
 Set a granite rock 26x7x7 ins., 16 inches in the ground for Cor. No. 3, marked D24-3-4167; D4-4-4167; from which
 A pine post, 4 feet long, 4 inches square set 18 inches in the ground in a mound of rocks, bears N 52° 53' E 6.8 ft.
 A granite rock in place 31x38 ins., 41 inches above ground bears S 45° 02' E 11.8 ft. dist., marked BR x D24-3-4167
 Thence N 52° 53' E

300.0 Original location for the north end center, being a mound of rocks 3 feet high with 3 feet base

600.0 Cor. No. 4
 Situated on line 3-4 of Survey No. 4165 Detroit No. 3 lode, whence Cor. No. 3 bears N 52° 53' E 455.2 ft.
 Set a granite rock 28x10x7 ins., 18 inches in the ground for Cor. No. 4, marked D24-4-4167; from which
 A pine post 4 feet long, 4 inches square, set 18 inches in the ground in a mound of rocks bears N 52° 53' E 4.0 ft.
 A granite ledge 32x41 ins., 10 inches above the ground, bears S 22° 57' E 63.7 ft. dist., marked BR x D24-4-4167
 A granite rock in place 14x15 ins., 13 inches above ground, bears N 47° 38' E 53.7 ft. dist., marked BR x D24-4-4167

Feet

Thence $S 43^{\circ} 22' E$

1500.0 Cor. No. 1 and place of beginning.

DETROIT NO. 26

Beginning at Cor. No. 1 of the Detroit No. 26 lode
 Identical with Cor. No. 1 of the Detroit No. 24 lode
 of this survey

Thence $S 43^{\circ} 22' E$

806.0 Cross gulch, 40 feet wide, course northerly

1500.0 Cor. No. 2

Set a quartzite rock 25x8x7 ins. set 16 inches in the
 ground, for Cor. No. 2, marked D26-2-4167; from
 which

A pine post, 4 feet long, 4 inches square, set 18
 inches in the ground in a mound of rocks, bears
 $S 52^{\circ} 53' W 4.1$ ft.

Thence $S 52^{\circ} 53' W$

300.0 Original location for the south end center, being a
 mound of stones 3 feet high with 3 feet base

600.0 Cor. No. 3

Set a porphyry rock 28x9x7 ins., 16 inches in the
 ground, for Cor. No. 3, marked D26-3-4167; from
 which

A pine post, 4 feet long, 4 inches square, set 18
 inches in the ground, in a mound of rocks, bears
 $N 43^{\circ} 22' W 4.8$ ft.

A limestone rock in place 13x23 ins., 7 inches above
 ground, bears $S 0^{\circ} 56' E 9.2$ ft., dist., marked
 BR x D26-3-4167

Thence $N 43^{\circ} 22' W$

600.0 Cor. No. 1 of the Detroit No. 25 lode of this survey

900.0 East end center of the Detroit No. 25 lode of this sur-
 vey

930.0 Cross gulch, 25 feet wide, course easterly

1200.0 Cor. No. 4 of the Detroit No. 25 lode of this survey, and
 Cor. No. 1 of the Detroit No. 23 lode of this survey

1500.0 Cor. No. 4

Identical with Cor. No. 2 of the Detroit No. 24 lode
 of this survey

Thence $N 52^{\circ} 53' E$

300.0 Original location for the north end center, identical
 with the south end center of the Detroit No. 24 lode
 of this survey

600.0 Cor. No. 1 and place of beginning.

Feet

DETROIT NO. 4

Beginning at Cor. No. 1 of the Detroit No. 4 lode.

Identical with Cor. No. 4 of the Detroit No. 22 lode of this survey and situated on line 2-3 of the Detroit No. 24 lode of this survey

Set a quartzite rock 31x7x7 ins., 4 inches in the ground to bed rock, built monument 12 inches high around rock, for Cor. No. 1, marked D4-1-4167; D22-4-4167; from which

A pine post, 4 feet long, 4 inches square, set 12 inches in the ground to bedrock, in a mound of rocks bears S43° 22' E 7.0 ft.

A quartzite ledge 8x17 ins., 19 inches above the ground, bears S 2° 33' W 19.20 ft. dist., marked BR x D4-1-4167

A quartzite ledge 10x51 ins., 67 inches above the ground, bears S 53° 57' E 27.67 ft. dist., marked BR x D4-1-4167

The West 1/4 Cor. of Sec. 13, T 4 S, R 29 E, G & S R B & M, previously described bears S 76° 18' E 1550.3 ft.

Thence S 52° 53' W

202.0 Cross gulch, 25 feet wide, course easterly

898.0 Cross gulch 15 feet wide, course southeasterly

1500.0 Cor. No. 2

Identical with Cor. No. 3 of the Detroit No. 22 lode; Cor. No. 3 of the Detroit No. 19 lode; Cor. No. 3 of the Detroit No. 14 lode, all of this survey

Set a diorite rock 24x9x6 ins., 16 inches in the ground, for Cor. No. 2, marked D4-2-4167; D22-3-4167; D19-3-4167; D14-3-4167; from which

A pine post, 4 feet long, 4 inches square, set 18 inches in the ground in a mound of rocks, bears N 43° 22' W 5.3 ft.

A diorite ledge 12x15 ins., 15 inches above the ground bears N 20° 00' W 21.3 ft. dist., marked BR x D4-2-4167

A diorite ledge 7x15 ins., 12 inches above the ground bears N 51° 55' E 10.2 ft. dist., marked BR x D4-2-4167

Thence N 43° 22' W

300.0 Original location for the west end center, identical with the east end center of the Detroit No. 14 lode of this survey, being a mound of rocks 3 feet high with 3 feet base

600.0 Cor. No. 3
Identical with Cor. No. 2 of the Detroit No. 14 lode of this survey and situated on line 2-3 of Survey No. 4165 Detroit No. 2 lode

Set a granite rock 26x9x6 ins., 16 inches in the

Feet
 ground, for Cor. No. 3, marked D4-3-4167; D14-2-4167; from which

A pine post, 4 feet long, 4 inches square, set 18 inches in the ground in a mound of rocks bears N 52° 53' E 4.6 ft.

A granite ledge 12x56 ins., 24 inches above the ground, bears S 48° 36' E 64.9 ft., dist., marked BR x D4-3-4167

A granite rock in place 22x24 ins., 34 inches above ground, bears N 67° 06' W 45.5 ft. dist., marked BR x D4-3-4167

Thence N 52° 53' E

694.2 Cross gulch, 15 feet wide, course southeasterly

1055.2 Cor. No. 2 Survey No. 4165 Detroit No. 2 lode and Cor. No. 4 Survey No. 4165 Detroit No. 3 lode

1340.2 Cross gulch, 20 feet wide, course southeasterly

1500.0 Cor. No. 4

Identical with Cor. No. 3 of the Detroit No. 24 lode of this survey

Thence S 43° 22' E

300.0 Original location for the east end center, being a mound of stones 3 feet high with 3 feet base

600.0 Cor. No. 1 and place of beginning.

DETROIT NO. 22

Beginning at Cor. No. 1 of the Detroit No. 22 lode

Identical with Cor. No. 4 of the Detroit No. 23 lode of this survey

Identical with Cor. No. 4 of the Detroit No. 23 lode of this survey and situated on line 2-3 of the Detroit No. 24 lode of this survey.

Set a granite rock 27x7x5 ins., 16 inches in the ground for Cor. No. 1, marked D22-4167; D23-4-4167; from which

The West 1/4 Cor. of Sec. 13, T 4 S, R 29 E, G & S R B & M, previously described, bears N 86° 24' E 1096.4 ft.

A pine post 4 feet long, 4 inches square, set 18 inches in the ground in a mound of rocks bears N 43° 22' W 3.2 ft.

A granite rock in place 12x18 ins. 6 inches above ground, bears S 52° 53' W 8.8 ft. marked BR x D22-4167

922.0 Cross gulch, 20 feet wide, course southeasterly

1500.0 Cor. No. 2

Identical with Cor. No. 3 of the Detroit No. 23 lode, Cor. No. 3 of the Detroit No. 20 lode, Cor. No. 4 of the Detroit No. 19 lode, all of this survey,

Set a diorite rock 25x8x7 ins., 16 inches in the ground, for Cor. No. 2, marked D22-2-4167; D23-3-4167; D20-3-4167; D19-4-4167; from which

A pine post, 4 feet long, 4 inches square, set 18

Feet		
-3-117	inches in the ground, in a mound of rocks, bears N 43° 22' W 3.9 ft.	
300.0	Original location for the west' end center, identical with the east end center of the Detroit No. 19 lode of this survey, being a mound of rocks 3 feet high with 3 feet base	
600.0	Cor. No. 3 Identical with Cor. No. 2 of the Detroit No. 4 and Nos 3 of the Detroit No. 14 and No. 19 lodes of this Survey Thence N 52° 53' E	
602.0	Cross gulch 15 feet wide, course southeasterly	8.498
1298.0	Cross gulch, 25 feet wide, course easterly	3.5301
1500.0	Cor. No. 4 Identical with Cor. No. 1 of the Detroit No. 4 lode of this survey	
300.0	Original location for the east end center, being a mound of rocks 3 feet high with 3 feet base	
600.0	Cor. No. 1 and place of beginning.	0.000
	<u>DETROIT NO. 23</u>	0.000
	Beginning at Cor. No. 1 of the Detroit No. 23 lode Identical with Cor. No. 4 of the Detroit No. 25 lode of this survey and situated on line 3-4 of the Detroit No. 26 lode of this survey Set a quartzite rock 25x7x6 ins., 16 inches in the ground, for Cor. No. 1, marked D23-1-4167; D25-4- 4167; from which The East 1/4 Cor. of Sec. 14, T 4 S, R 29 E, G & S B & M; an iron pipe 1 in. diam., 12 inches above ground, firmly set, with brass cap properly marked, bears N 82° 56' E 691.15 ft. A pine post, 4 feet long, 4 inches square, set 18 inches in the ground, in a mound of rocks, bears S 43° 22' E 3.8 ft. A quartzite rock in place 13x16 ins., 6 inches above ground bears S 15° 36' W 25.8 ft., marked BR x D23-1-4167 Thence S 52° 53' W	
305.0	Cross gulch, 20 feet wide, course easterly	
1500.0	Cor. No. 2 Identical with Cor. No. 3 of the Detroit No. 25 lode, Cor. No. 3 of the Detroit No. 21 lode; Cor. No. 4 of the Detroit No. 20 lode, all of this survey Set a limestone rock 28x8x6 ins., 18 inches in the	

- Feet
ground, for Cor. No. 2; marked D23-2-4167; D25-3-4167; D20-4-4167; D21-3-4167; from which
A monument of rocks 3 feet high with 3 feet base bears S 43° 22' E 4.6 ft.
A granite rock in place 14x15 ins., 6 inches above ground bears N 79° 49' W 38.2 ft., marked BR x D23-2-4167
Thence N 43° 22' W
- 300.0 Original location for the west end center, identical with the east end center of the Detroit No. 20 lode of this survey, being a mound of rocks 3 feet high with 3 feet base
- 600.0 Cor. No. 3
Identical with Cor. 2 of the Detroit No. 22, Cor. No. 3 of the Detroit No. 20 and Cor. No. 4 of the Detroit No. 19 lodes of this survey.
Thence N 52° 53' E
- 578.0 Cross gulch, 20 feet wide, course southeasterly
- 1500.0 Cor. No. 4
Identical with Cor. No. 1 of the Detroit No. 22 lode of this survey
Thence S 43° 22' E
- 300.0 Original location for the east end center, identical with Cor. No. 2 of the Detroit No. 24 and Cor. No. 4 of the Detroit No. 26 lodes of this survey
- 600.0 Cor. No. 1 and place of beginning.

DETROIT NO. 25

- Beginning at Cor. No. 1 of the Detroit No. 25 lode, where I.
- Set a limestone rock 25x8x7 ins., 16 inches in the ground, for Cor. No. 1, marked D25-1-4167; from which
A pine post 4 feet long, 4 inches square, set 18 inches in the ground in a mound of rocks, bears N 43° 22' W 3.7 ft.
- The East 1/4 Cor. of Sec. 14, T 4 S, R 29 E, G & S R B & M, previously described, bears N 27° 44' E 588.7 ft.
Thence S 52° 53' W
- 1500.0 Cor. No. 2
Identical with Cor. No. 4 of the Detroit No. 21 lode of this survey
Set a sandstone rock 26x12x7 ins., 17 inches in the ground, for Cor. No. 2; marked D25-2-4167; D21-4-4167; from which
A pine post, 4 feet long, 4 inches square, set 18 inches in the ground, in a mound of rocks, bears N 43° 22' W 5.3 ft.

Feet
 -8-8- A quartzite rock in place 22x29' ins., 6 inches above ground, bears N 71° 24' E 31.63 ft., marked BR x D25-2-4167

A granite rock in place 11x26 ins., 16 inches above ground, bears N 17° 17' W 13.44 ft. dist., marked BR x D25-2-4167

Thence N 43° 22' W

300.0 Original location for the west end center, identical with the east end center of the Detroit No. 21 lode of this survey, being a mound of stones 3 feet high with 3' feet base

600.0 Cor. No. 3

Identical with Cor. No. 2 of the Detroit No. 23, Cor. No. 3 of the Detroit No. 21 and Cor. No. 4 of the Detroit No. 20 lodes of this survey

Thence N 52° 53' E

1195.0 Cross gulch 20 feet wide, course easterly

1500.0 Cor. No. 4

Identical with Cor. No. 1 of the Detroit No. 23 lode of this survey

Thence S 43° 22' E

270.0 Cross gulch 25 feet wide, course easterly

300.0 Original location for the east end center, being a mound of stones 3 feet high with 3 feet base

600.0 Cor. No. 1 and place of beginning.

DETROIT NO. 14

Beginning at Cor. No. 1 of the Detroit No. 14 lode

Identical with Cor. No. 3 of the Detroit No. 15 lode of this survey and situated on line 3-4 of Survey No. 4168 Detroit No. 10 lode

Set a quartzite rock 26x11x6 ins., 16 inches in the ground for Cor. No. 1, marked D14-1-4167; D15-3-4167; from which

The 1/4 Cor. between Secs. 14 and 15, T 4 S, R 29 E G & S R B & M; an iron post 1 in. diam., 12 inches above ground, firmly set, with brass cap properly marked, bears N 61° 16' W 1198.3 ft.

A pine post 4 feet long 4 inches square set 18 inches in the ground in a mound of stones bears S 43° 22' E 4.7 ft.

A quartzite rock in place 17 x 24 ins., 14 inches above ground bears S 39° 52' W 37.5 ft., dist., marked BR x D14-1-4167

-4-131- A quartzite rock in place 12x20 ins., 7 inches above ground bears S 25° 50' W 26.25 ft. dist., marked BR x D14-1-4167

Thence N 52° 53' E

Feet	
370.0	Cross Rock House gulch, 40 feet wide, course southerly
1055.2	Cor. No. 3 of Survey No. 4168 Detroit No. 10 lode and Cor. No. 3 of Survey No. 4165 Detroit No. 2 lode
1269.2	Cross trail, course southerly
1500.0	Cor. No. 2 Identical with Cor. No. 3 of the Detroit No. 4 lode of this survey Thence S 43° 22' E
300.0	Original location for the east end center, identical with the west end center of the Detroit No. 4 lode of this survey
600.0	Cor. No. 3 Identical with Cor. No. 2 of the Detroit No. 4, Cors. Nos. 3 of the Detroit No. 19 and Detroit No. 22 lodes, all of this survey Thence S 52° 53' W
1388.0	Cross trail, course southerly
1500.0	Cor. No. 4 Identical with Cor. No. 2 of the Detroit No. 19 lode; Cor. No. 3 of the Detroit No. 16 lode; Cor. No. 4 of the Detroit No. 15 lode, all of this survey Set a diorite rock 25x11x5 ins., 16 inches in the ground, for Cor. No. 4; marked D14-4-4167; D19-2- 4167; D16-3-4167; D15-4-4167; from which A pine post, 4 feet long, 4 inches square, set 18 inches in the ground in a mound of stones, bears S 43° 22' E 6.1 ft. A diorite ledge 13x16 ins., 16 inches above the ground, bears S 49° 33' E 3.3 ft. dist., marked BR x D14-4-4167 A diorite ledge 21x50 ins., 41 inches above the ground, bears S 66° 10' W 18.2 ft., dist., marked BR x D14-4-4167 Thence N 43° 22' W
248.0	Cross Rock House Gulch, 40 feet wide, course southerly
300.0	Original location for the west end center, identical with the east end center of the Detroit No. 15 lode of this survey, being a mound of stones 3 feet high with 3 feet base
600.0	Cor. No. 1 and place of beginning.

DETROIT NO. 19

Beginning at Cor. No. 1 of the Detroit No. 19 lode
Identical with Cor. No. 2 of the Detroit No. 20 lode;
Cor. No. 4 of the Detroit No. 17 lode; Cor. No. 4
of the Detroit No. 16 lode; all of this survey
Set a diorite rock 26x7x6 ins., 16 inches in the

Feet

ground for Cor. No. 1; marked D19-1-4167; D20-2-4167; D16-4-4167; D17-4-4167; from which

A pine post 4 feet long, 4 inches square, set 18 inches in the ground in a mound of stones, bears S 43° 22' E 5.3 ft.

A diorite ledge 24x28 ins., 44 inches above the ground, bears N 48° 22' E 41.7 ft. dist., marked BR x D19-1-4167

A porphyry ledge 14x28 ins., 18 inches above the ground, bears S 0° 08' E 29.55 ft., dist., marked BR x D19-1-4167

The 1/4 Cor. between Secs. 14 and 23, T4 S, R29 E, G & S R B & M; an iron pipe 1 in. diam., 12 inches above ground, with brass cap properly marked bears S 32° 00' E 1417.0 ft.

Thence N 43° 22' W

78.0 Cross trail, course southerly

274.0 Cross trail, course easterly

300.0 Original location for the west end center, identical with the east end center of the Detroit No. 16 lode of this survey, being a mound of rocks 3 feet high with 3 feet base

345.0 Cross trail, course southerly

600.0 Cor. No. 2

Identical with Cor. No. 4 of the Detroit No. 14, Cor. No. 3 of the Detroit No. 16 and Cor. No. 4 of the Detroit No. 15 lodes of this survey

Thence N 52° 53' E

112.0 Cross trail course southerly

1500.0 Cor. No. 3

Identical with Cor. No. 12 of the Detroit No. 4, Cors. Nos. 3 of the Detroit No. 14 and Detroit No. 22

Thence S 43° 22' E

300.0 Original location for the east end center, identical with the west end center of the Detroit No. 22 lode of this survey

600.0 Cor. No. 4

Original location for the west end center, identical with Cor. No. 2 of the Detroit No. 22, Cors. Nos. 3 of the Detroit No. 23 and Detroit No. 20 lodes of this survey

Thence S 52° 53' W

1500.0 Cor. No. 1 and place of beginning.

DETOIT NO. 19
DETOIT NO. 20

Beginning at Cor. No. 1 of the Detroit No. 20 lode

Identical with Cor. No. 2 of the Detroit No. 20 lode

Identical with Cor. No. 2 of the Detroit No. 21 lode; Cor. No. 4 of the Detroit No. 18 lode; Cor. No. 1 of the Detroit No. 17 lode, all of this survey

Feet

Set a limestone rock 28x12x5 ins., 16 inches in the ground for Cor. No. 1; marked D20-1-4167; D21-2-4167; D18-4-4167; D17-1-4167; from which

The 1/4 Cor. Between Secs. 14 and 23, T 4 S, R 29 E, G & S R B & M, previously described, bears S 23° 53' E 837.1 ft.

A pine post, 4 feet long, 4 inches square set 18 inches in the ground in a mound of rocks, bears S 43° 22' E 5.0 ft.

A limestone rock in place, 14x20 ins., 13 inches above ground, bears E 38° 30' E 46.48 ft., dist., marked BR x D20-1-4167

A granite rock in place, 21x38 ins., 18 inches above ground, bears S 75° 32' E 18.0 ft. dist., marked BR x D20-1-4167

Thence N 43° 22' W

300.0 Original location for the west end center, identical with the east end center of the Detroit No. 17 lode of this survey, being a mound of rocks 3 feet high with 3 feet base

600.0 Cor. No. 2

Identical with Cor. No. 1 of the Detroit No. 19, 1 Cors. Nos. 4 of the Detroit No. 16 and Detroit No. 17 lodes of this survey.

Thence N 52° 53' E

1500.0 Cor. No. 3

Identical with Cor. No. 2 of the Detroit No. 22, Cor. No. 3 of the Detroit No. 23 and Cor. No. 4 of the Detroit No. 19 lodes, all of this survey

Thence S 43° 22' E

300.0 Original location for the east end center, identical with the west end center of the Detroit No. 23 lode of this survey

600.0 Cor. No. 4

Identical with Cor. No. 2 of the Detroit No. 23, 1 Cors. Nos. 3 of the Detroit No. 21 and Detroit No. 25 lodes of this survey

Thence S 52° 53' W

1500.0 Cor. No. 1 and place of beginning.

DETROIT NO. 21

Beginning at Cor. No. 1 of the Detroit No. 21 lode

Identical with Cor. No. 1 of the Detroit No. 18 lode of this survey

Set a porphyry rock 26x8x6 ins., 18 inches in the ground for Cor. No. 1; marked D21-1-4167; D18-1-4167; from which

A pine post, 4 feet long, 4 inches square, set 18 inches in the ground in a mound of rocks, bears N 43° 22' W 4.5 ft.

Feet

The 1/4 Cor. between Secs. 14 and 23, T 4 S, R 29 E, G & S R B & M, previously described, bears S 12° 30' W 337.2 ft.

A quartzite rock in place 15x30 ins., 9 inches above the ground, bears S 64° 45' E 31.7 ft. dist., marked BR x D21-1-4167

A quartzite rock in place 25x32 ins., 21 inches above the ground, bears S 18° 55' E 26.1 ft. dist., marked BR x D21-1-4167

Thence N 43° 22' W
 300.0 Original location for the west end center, identical with the west end center of the Detroit No. 18 lode of this survey, being a mound of rocks 3 feet high with 3 feet base

600.0 Cor. No. 2
 Identical with Cors Nos. 1 of the Detroit No. 20 and Detroit No. 17 and Cor. No. 4 of the Detroit No. 18 lodes, all of this survey.
 Thence N 52° 53' E

1500.0 Cor. No. 3
 Identical with Cor. No. 2 of the Detroit No. 23, Cor. No. 3 of the Detroit No. 25 and Cor. No. 4 of the Detroit No. 20 lodes of this survey.
 Thence S 43° 22' E

300.0 Original location for the east end center, identical with the west end center of the Detroit No. 25 lode of this survey
 600.0 Cor. No. 4

Identical with Cor. No. 2 of the Detroit No. 25 lode of this survey
 Thence S 52° 53' W
 1500.0 Cor. No. 1 and place of beginning.

DETROIT NO. 15

Beginning at Cor. No. 1 of the Detroit No. 15 lode
 Identical with Cor. No. 2 of the Detroit No. 16 lode of this survey,

Set a sandstone rock, 27x7x5 ins., 17 inches in the ground for Cor. No. 1; marked D15-1-4167; D16-2-4167; from which

The Cor. of Secs. 14, 15, 22 and 23, T 4 S, R 29 E, G & S R B & M; an iron pipe, 2 ins. diam, firmly set, with brass cap properly marked bears S 21° 07' W 775.65 ft.

A pine post 4 feet long, 4 inches square, set 18 inches in the ground, in a mound of rocks, bears N 52° 53' E 4.0 ft.

Thence N 43° 22' W
 300.0 Original location for the west end center, being a mound of rocks 3 feet high with 3 feet base

Feet
600.0 Cor. No. 2
Situating on line 2-3 of Survey No. 4168, Detroit No. 11 lode
Set a quartzite rock 26x8x8 ins., 16 inches in the ground for Cor. No. 2, marked D15-2-4167; from which
A monument of rocks 3 feet high with 3 feet base bears S 43° 22' E 5.6 ft.
Cor. No. 3 Survey No. 4168 Detroit No. 11 lode bears S 52° 53' W 238.8 ft.
Thence N 52° 53' E

1055.2 Cor. No. 2 of Survey No. 4168 Detroit No. 11 lode and Cor. No. 4 of Survey No. 4168 Detroit No. 10 lode
1500.0 Cor. No. 3
Identical with Cor. No. 1 of the Detroit No. 14 lode of this survey
Thence S 43° 22' E
300.0 Original location for the east end center, identical with the west end center of the Detroit No. 14 lode of this survey
352.0 Cross Rock House Gulch, course southerly, 40 feet wide
600.0 Cor. No. 4
Identical with Cor. No. 4 of the Detroit No. 14, Cor. No. 2 of the Detroit No. 19 and Cor. No. 3 of the Detroit No. 16 lodes of this survey
Thence S 52° 53' W
255.0 Cross Rock House Gulch, 40 feet wide, course southerly
1500.0 Cor. No. 1, and place of beginning
DETROIT NO. 16
Beginning at Cor. No. 1 of the Detroit No. 16 lode
Set a quartzite rock 26x8x8 ins., 4 inches in the ground to bed rock, built monument around corner 12 inches high, for Cor. No. 1, marked D16-1-4167; from which
The Cor. of Secs. 14, 15, 22 and 23, T 4 S, R 29 E, G & S R B & M, previously described, bears S 67° 26' W 748.8 ft.
Cor. No. 2 of Survey No. 4148 Rock House lode bears N 48° 25' E 269.50 ft.
A pine post 4 feet long, 4 inches square set 18 inches in the ground in a mound of rocks bears N 43° 22' W 5.0 ft.
A quartzite rock in place 27x37 ins., 16 inches above the ground, bears N 43° 10' E 14.0 ft. dist., marked BR x D16-1-4167
A quartzite rock in place 11x14 ins., 18 inches above the ground, bears S 83° 56' E 18.95 ft.

Feet	dist., marked BR x D16-144167
300.0	Original location for the west end center, being a mound of rocks 3 feet high with 3 feet base
600.0	Cor. No. 2
	Identical with Cor. No. 1 of the Detroit No. 15 lode of this survey
1245.0	Cross Rock House Gulch, 40 feet wide, course southerly
1500.0	Cor. No. 3
	Identical with Cor. Nos. 4 of the Detroit No. 14 and Detroit No. 15 and Cor. No. 2 of the Detroit No. 19 lodes of this survey
255.0	Cross trail, course southerly
300.0	Original location for the east end center, identical with the west end center of the Detroit No. 19 lode of this survey
326.0	Cross trail, course easterly
522.0	Cross trail, course southerly
600.0	Cor. No. 4
	Identical with Cor. No. 1 of the Detroit No. 19, Cor. No. 2 of the Detroit No. 20 and Cor. No. 4 of the Detroit No. 17 lodes of this survey
100.0	Cross trail, course southerly
378.0	Cross Rock House Gulch, 40 feet wide, course southerly
1229.5	Intersect line 2-3 of Survey No. 4148 Rock House lode at S 42° 05' E 21.04 ft. from Cor. No. 2
1243.0	Cor. No. 3 of the Detroit No. 17 lode of this survey
1472.52	Intersect line 1-2 of Survey No. 4148 Rock House lode at S 47° 55' W 242.11 ft. from Cor. No. 2
1500.0	Cor. No. 1 and place of beginning
	DETROIT NO. 17
	Beginning at Cor. No. 1 of the Detroit No. 17 lode
	Identical with Cor. No. 1 of the Detroit No. 20, Cor. No. 2 of the Detroit No. 21 and Cor. No. 4 of the Detroit No. 18 lodes of this survey
472.0	Cross trail, course southerly
750.0	Cross Rock House Gulch, course southerly, 40 feet wide
1243.0	Cor. No. 2
	Situated on line 5-4 of the Detroit No. 18 lode of this survey

Feet

Set a sandstone rock, 27x8x4 ins., 16 inches in the ground for Cor. No. 2, marked D17-2-4167; from which

A monument of rocks 3 feet high with 3 feet base bears S 52° 53' W 6.6 ft.

Cor. No. 2 of Survey No. 4148 Rock House Lode bears N 42° 05' W 619.72 ft.

Original location for Cor. No. 2 being a pine post 4 inches square set 18 inches in the ground in a mound of stones, bears S 52° 53' W 257.0 ft.

A sandstone rock in place 8 x 16 ins., 9 inches above ground bears N 16° 50' W 12.3 ft. dist., marked BR x D17-2-4167

A sandstone ledge 12x25 ins., 22 inches above the ground, bears N 79° 34' E 30.9 ft., dist., marked BR x D17-2-4167

Thence N 43° 22' W

300.0 West end center, being a mound of rocks 3 feet high with 3 feet base, whence original location for the west end center, being a mound of rocks 3 feet high with 3 feet base bears S 52° 53' W 257.0 ft.

600.0 Cor. No. 3

Situated on line 4-1 of the Detroit No. 16 lode of this survey

Set a sandstone rock, 26x10x4 ins., 16 inches in the ground, for Cor. No. 3, marked D17-3-4167; from which

A monument of rocks 3 feet high with 3 feet base bears North 6 feet

Original location for Cor. No. 3 bears S 52° 53' W 257.0 ft. identical with Cor. No. 1 of the Detroit No. 16 lode of this survey

Thence N 52° 53' E

13.5 Intersect line 2-1 of Survey No. 4148 Rock House lode at S 42° 05' E 21.04 ft. from Cor. No. 2

865.0 Cross Rock House Gulch, 40 feet wide, course southerly

1143.0 Cross trail course southerly

1243.0 Cor. No. 4

Identical with Cor. No. 1 of the Detroit No. 19, Cor. No. 2 of the Detroit No. 20 and Cor. No. 4 of the Detroit No. 16 lodes of this survey

Thence S 43° 22' E

300.0 Original location for the east end center, identical with the west end center of the Detroit No. 20 lode of this survey

600.0 Cor. No. 1 and place of beginning.

DETROIT NO. 18

Beginning at Cor. No. 1 of the Detroit No. 18 lode

Feet

Identical with Cor. No. 1 of the Detroit No. 21 lode of this survey

Thence S 52° 53' W

1256.5 Cor. No. 2

Situated on line 2-3 of Survey No. 4148 Rock House lode at N 42° 05' W 281.6 ft. from Cor. No. 3

Set a sandstone rock, 26x12x7 ins., 17 inches in the ground for Cor. No. 2, marked D18-2-4167; from which

A monument of rocks 3 feet high with 3 feet base bears S 52° 53' W 243.5 ft.

Original location for Cor. No. 2 being a pine post 4 feet long, 4 inches square, set 18 inches in the ground in a mound of rocks bears S 52° 53' W 243.5 ft.

A quartzite rock in place, 17x19 ins., 7 inches above the ground, bears S 42° 05' E 2.5 ft. dist., marked BR x D18-2-4167

A sandstone rock in place, 15 x 22 ins., 10 inches above the ground, bears S 80° 40' W 9.9 ft. dist., marked BR x D18-2-4167

Thence N 43° 22' W

107.0 Cross trail, course southerly

143.4 Cross Rock House Gulch, 40 feet wide, course southerly

300.0 West end center, being a mound of rocks 3 feet high with 3 feet base, whence the original location for the west end center being a mound of rocks 3 feet high with 3 feet base bears S 52° 53' W 243.5 ft.

600.0 Cor. No. 3

Set a sandstone rock, 25x8x7 ins., 16 inches in the ground for Cor. No. 3, marked D18-3-4167; from which

Original location for the Cor. No. 3 being a pine post 4 feet long, 4 inches square, set 18 inches in the ground in a mound of rocks bears S 52° 53' W 243.5 ft.

A mound of rocks 3 feet high with 3 feet base bears N 52° 53' E 6.9 ft.

Thence N 52° 53' E

13.5 Cor. No. 2 of the Detroit No. 17 lode of this survey and intersect line 2-3 of Survey No. 4148 Rock House lode at N 42° 05' W 880.28 ft. from Cor. No. 3

506.5 Cross Rock House Gulch, 40 feet wide, course southerly

784.5 Cross trail, course southerly

1256.5 Cor. No. 4

Identical with Cors. Nos 1 of the Detroit No. 20 and Detroit No. 17 and Cor. No. 2 of the Detroit No. 21 lodes of this survey

Thence S 43° 22' E

Feet
 300.0 Original location for the east end center, identical with the west end center of the Detroit No. 21 lode of this survey.
 600.0 Cor. No. 1 and place of beginning.

LODE LINES

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

- Detroit No. 24 lode, S 43° 22' E 450 ft., and N 43° 22' W 1050 ft.
- Detroit No. 26 lode, S 43° 22' E 600 ft., and N 43° 22' W 900 ft.
- Detroit No. 4 lode, S 52° 53' W 700 ft., and N 52° 53' E 800 ft.
- Detroit No. 22 lode, S 52° 53' W 620 ft., and N 52° 53' E 880 ft.
- Detroit No. 23 lode, S 52° 53' W 700 ft., and N 52° 53' E 800 ft.
- Detroit No. 25 lode, S 52° 53' W 700 ft., and N 52° 53' E 800 ft.

LOCATION

- Detroit No. 14 lode, S 52° 53' W 650 ft., and N 52° 53' E 850 ft.
- Detroit No. 19 lode, S 52° 53' W 500 ft., and N 52° 53' E 1000 ft.
- Detroit No. 20 lode, S 52° 53' W 750 ft., and N 52° 53' E 750 ft.
- Detroit No. 21 lode, S 52° 53' W 630 ft., and N 52° 53' E 870 ft.

- Detroit No. 15 lode, S 52° 53' W 1000 ft., and N 52° 53' E 500 ft.
- Detroit No. 16 lode, S 52° 53' W 1100 ft., and N 52° 53' E 400 ft.
- Detroit No. 17 lode, S 52° 53' W 493 ft., and N 52° 53' E 750 ft.
- Detroit No. 18 lode, S 52° 53' W 571.5 ft., and N 52° 53' E 685 ft.

AREAS

	acres
Total Area, Detroit No. 24 lode	20.538
Total Area, Detroit No. 26 lode	20.538
Total area, Detroit No. 4 lode	20.538
Total area, Detroit No. 22 lode	20.538
Total area, Detroit No. 23 lode	20.538
Total area, Detroit No. 25 lode	20.538

	acres
Total area, Detroit No. 14 lode	20.538
Total Area, Detroit No. 19 lode	20.538
Total Area, Detroit No. 20 lode	20.538
Total area, Detroit No. 21 lode	20.538
Total area, Detroit No. 15 lode	20.538
Total area, Detroit No. 16 lode	20.538

Area in conflict with
 Survey No. 4148 Rock House Lode - - - - - 0.058
 Total Area, Detroit No. 17 lode - - - - - 17.019

Area in conflict with
 Survey No. 4148 Rock House lode - - - - - 0.092
 Total Area, Detroit No. 18 lode - - - - - 17.204

Area in conflict with
 Survey No. 4148 Rock House lode - - - - - 0.092

LOCATION

This survey is located in the SE 1/4 of the SE 1/4 of Sec. 15; in Sec. 14; in the SW 1/4 of Sec. 13 and the NW 1/4 of Sec. 23; T 4 S, R. 29 E, G & S R B & M.

The survey of each of the lode locations of this survey is identical with the amended locations as marked on the ground, with the exception of the Detroit No. 17 and the Detroit No. 18 lodes as noted under those two claims.

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:-

No. 1 The discovery cut of the Detroit No. 24 lode, the face of which being the discovery point is on the center line, 450 ft. from the south end center, 4 feet wide, 10 ft. face runs N 45° E 12 ft. to face
 Value \$50

No. 1 The discovery cut of the Detroit No. 26 lode, the face of which being the discovery point is on the center line, 600 ft. from the south end center, 5 feet wide, 10 ft. face, runs S 43° 22' E 12 ft. to face
 Value \$65

No. 1 The discovery cut of the Detroit No. 22 lode, the face of which being the discovery point is on the center line, 620 ft. from the west end center, 4 feet wide, 10 ft. face, runs N 52° 53' E 16 ft. to face
 Value \$65

No. 2 An open cut, the mouth of which bears North 40.0 ft. from Cor. No. 2 Detroit No. 22 lode; 4 feet wide, 8 ft. face, runs S 46° W 10 ft. to face

- Value \$40
- No. 3 An open cut, the mouth of which bears N 34° 30' E 65.0 ft. from Cor. No. 2; 8 ft. wide, 14 ft. face, runs S 5° E 18 ft. to face and portal of tunnel, 4x6 ft. in size, running S 46° W 50 ft. to face. Value of cut and tunnel \$710
- No. 4 An open cut, the mouth of which bears N 75° 30' E 665 ft. from the west end center; 7 ft. wide, 8 ft. face, runs N 75° E 14 ft. to face. Value \$80
- No. 5 An open cut, the mouth of which bears S 35° 55' E 137 ft. from Cor. No. 4 Detroit No. 22 lode; 4 feet wide, 8 ft. face, runs N 30° E 12 ft. to face. Value \$45
- No. 1 The discovery shaft of the Detroit No. 4 lode, the center of which being the discovery point is on the center line 700 ft. from the west end center; 4x6 ft. in size, 10 ft. deep. Value \$50
- No. 2 An open cut, the mouth of which bears N 85° 15' W 234 ft. from Cor. No. 1 Detroit No. 4 lode; 4 feet wide, 8 ft. face runs N 65° E 14 ft. to face. Value \$50
- No. 1 The discovery shaft of the Detroit No. 23 lode, the center of which being the discovery point is on the center line 700 ft. from the west end center; 4x6 ft. in size, 10 ft. deep. Value \$50
- No. 1 The discovery shaft of the Detroit No. 25 lode, the center of which being the discovery point is on the center line 700 ft. from the west end center; 4x6 ft. in size, 10 ft. deep. Value \$50
- No. 1 The discovery cut of the Detroit No. 19 lode, the face of which being the discovery point is on the center line 500 ft. from the west end center; 4 feet wide, 10 ft. face, runs N 52° 53' E 12 ft. to face. Value \$50
- No. 2 A shaft, the center of which bears North 28 ft. from Cor. No. 1 Detroit No. 19 lode; 4x6 ft. in size; 16 ft. deep. Value \$200
- No. 3 An open cut, the mouth of which bears N 36° 55' E 48 ft. from Cor. No. 1 Detroit No. 19 lode; 4 feet wide, 8 ft. face, runs S 30° E 10 ft. to face. Value \$40
- No. 1 The discovery shaft of the Detroit No. 20 lode, the center of which being the discovery point is on the center line 750 ft. from the west end center; 6x8 ft. in size, 35 feet deep. Value \$700
- No. 2 An open cut, the mouth of which bears S 30° W 748 ft. from Cor. No. 3 Detroit No. 20 lode, 4 feet wide, 8 ft. face, runs N 35° E 20 ft. to face. Value \$65
- No. 3 An open cut, the mouth of which bears S 29° 25' W 672 ft.

from Cor. No. 3 Detroit No. 20 lode; 6 feet wide, 10 ft face, runs N 35° E 14 ft. to face
Value \$90

No. 1 The discovery cut of the Detroit No. 21 lode, the face of which being the discovery point is on the center line 630 ft. from the west end center; 4 feet wide, 10 ft. face, runs N 52° 53' E 18 ft. to face
Value \$75

No. 1 The discovery cut of the Detroit No. 17 lode, the face of which being the discovery point is on the center line 750 ft. from the east end center; 5 feet wide, 10 ft. face, runs S 52° 53' W 15 ft. to face
Value \$80

No. 2 Open cut, the mouth of which bears S 42° 48' W 473 ft. from Cor. No. 4 Detroit No. 17 lode; 5 feet wide, 10 ft. face, runs S 50° W 12 ft. to face
Value \$65

No. 3 An open cut, the mouth of which bears S 42° 26' W 446 ft. from Cor. No. 4 Detroit No. 17 lode; 4 feet wide, 10 ft. face, runs S 50° W 12 ft. to face and portal of tunnel, 4x6 ft. in size running S 50° W 42 ft., to breast
Value of cut and tunnel \$470

No. 4 An open cut, the mouth of which bears S 46° 05' W 321 ft. from Cor. No. 4 Detroit No. 17 lode; 10 feet wide, 10 ft. face runs N 53° W 10 ft. to face; at face is shaft 7x8 ft. in size, 3 feet deep
Value of cut and shaft \$140

No. 5 An open cut, the mouth of which bears S 47° 50' W 300 ft. from Cor. No. 4 Detroit No. 17 lode; 5 feet wide, 8 ft. face, runs N 53° W 10 ft. to face
Value \$45

No. 6 An open cut, the mouth of which bears S 57° 15' W 634 ft. from Cor. No. 1 Detroit No. 17 lode; 4 feet wide, 8 ft. face, runs N 60° W 14 ft. to face
Value \$50

No. 7 An open cut, the mouth of which bears S 54° 55' W 570 ft. from Cor. No. 1 Detroit No. 17 lode; 4 feet wide, 10 ft. face, runs N 60° W 12 ft. to face
Value \$50

No. 1 The discovery cut of the Detroit No. 18 lode, the face of which being the discovery point is on the center line 685 ft. from the east end center; 4 feet wide, 10 ft. face, runs S 52° 53' W 14 ft. to face
Value \$60

No. 1 The discovery cut of the Detroit No. 14 lode, the face of which being the discovery point is on the center line 650 ft. from the west end center; 5 feet wide, 10 ft. high, runs East 14 ft. to face
Value \$75

No. 2 An open cut, the mouth of which bears N 38° 35' E 365 ft. from Cor. No. 4 Detroit No. 14 lode; 4 feet wide, 10 ft. face, runs N 50° E 12 ft. to face
Value \$50

No. 3 A shaft, the center of which bears N 38° 35' E 396 ft. from Cor. No. 4 Detroit No. 14 lode; 5x6 ft. in size, 8 ft. deep
Value \$50

Feet

No. 4 An open cut, the mouth of which bears S 57° 25' W 589 ft. from Cor. No. 3 of the Detroit No. 14 lode; 5 feet wide, 10 ft. face, runs S 20° E 18 ft. to face
Value \$100

No. 5 An open cut, the mouth of which bears N 71° 40' E 700 ft. from Cor. No. 1 of the Detroit No. 14 lode; 8 feet wide, 10 ft. face, runs S 65° E 12 ft. to face
Value \$100

No. 6 An open cut, the mouth of which bears N 65° 55' E 734 feet from Cor. No. 1 of the Detroit No. 14 lode; 4 feet wide, 10 ft. face, runs S 65° E 12 ft. to face
Value \$50

No. 1 The discovery cut of the Detroit No. 15 lode, the face of which being the discovery point is on the center line 500 feet from the east end center; 4 feet wide, 10 ft. face runs S 52° 53' W 14 ft. to face
Value \$60

No. 2 An open cut, the mouth of which bears N 26° 05' W 40 ft. from Cor. No. 1 of the Detroit No. 15 lode; 5 feet wide 14 ft. face, runs N 75° E 18 ft. to face and portal of tunnel 4x7 ft. in size, running East 46 ft. to a point, thence S 70° E 24. ft. to breast
A 1/2 interest in this tunnel has been allotted to the Detroit No. 15 and the Detroit No. 16 lodes as the tunnel starts on Detroit No. 15 and runs into Detroit No. 16
Value of 1/2 interest \$585

No. 3 An open cut, the mouth of which bears North 60 feet from Cor. No. 1 of the Detroit No. 15 lode; 5 feet wide, 10 ft. face, runs S 85° E 12 ft. to face and portal of tunnel 4x6 ft. in size, running S 85° E 70 ft. to a point, thence S 70° E 38. ft. to breast. A 1/2 interest in this tunnel has been allotted to the Detroit No. 15 and Detroit No. 16 lodes, both of this survey, as the tunnel starts on the Detroit No. 15 lode and runs into the Detroit No. 16 lode
Value of 1/2 interest \$840

No. 4 An open cut, the mouth of which bears N 29° 30' W 108 ft. from Cor. No. 1 of the Detroit No. 15 lode; 4 feet wide, 10 ft. face runs S 60° W 12 ft. to face
Value \$50

No. 5 An open cut. the mouth of which bears N 2° 05' E 239 ft. from Cor. No. 1 of the Detroit No. 15 lode; 6 feet wide, 8 ft. face runs N 45° E 12 ft. to face
Value \$50

No. 6 An open cut, the mouth of which bears N 47° 40' E 495 ft. from Cor. No. 1 of the Detroit No. 15 lode; 8 feet wide, 10 ft. face, runs N 60° E 20 ft. to face
Value \$160

No. 1 The discovery cut of the Detroit No. 16 lode, the face of which being the discovery point is on the center line 400 feet from the east end center; 4 feet wide, 10 ft. face, runs S 52° 53' W 13 ft. to face
Value \$55

No. 2 An open cut, the mouth of which bears N 50° 10' E 402 ft. from the west end center; 4 feet wide, 10 ft. face runs N 60° E 12 ft. to face
Value \$50

A 1/2 interest in No. 2 and No. 3 of the Detroit No. 15 allotted to the Detroit No. 16
Value \$1425

A 1/26 interest in Improvement No. 2 of the Detroit No. 12 lode of Survey No. 4168 has been allotted to each of the claims of this survey. Value of 1/26 interest \$ 180

A 1/26 interest in Improvement No. 2 of the Detroit No. 13 lode of Survey No. 4168 has been allotted to each of the claims of this survey. Value of 1/26 interest \$ 172

A 1/26 interest in Improvement No. 3 of the Detroit No. 13 lode of Survey No. 4168 has been allotted to each of the claims of this survey. Value of 1/26 interest \$ 70

A 1/26 interest in Improvement No. 4 of the Detroit No. 13 lode of Survey No. 4168 has been allotted to each of the claims of this survey. Value of 1/26 interest \$ 76

A 1/75 interest in Improvement No. 1 of the Novo No. 5 lode of Survey No. 4168 has been allotted to each of the claims of this survey. Value of 1/75 interest \$ 70

A 1/75 interest in diamond drilling and other improvements made in the Christie and Kentucky tunnels situated on Survey No. 2709 Copper Bluff and Kentucky lodes has been allotted to each of the claims of this survey. Value of 1/75 interest \$ 761.89

No. 3 An open cut, the mouth of which bears North 60 feet from Cor. No. 1 of the Detroit No. 13 lode; 5 feet wide, 10 ft. face, runs S 85° E 12 ft. to face and portal of tunnel 420 ft. in size, running S 85° E 70 ft. to a point, thence S 70° E 38 ft. to greatest. A 1/2 interest in this tunnel has been allotted to the Detroit No. 13 and Detroit No. 12 lodes, both of this survey, as the tunnel starts on the Detroit No. 13 lode and runs into the Detroit No. 12 lode. Value of 1/2 interest \$240

No. 4 An open cut, the mouth of which bears N 29° 30' W 108 ft. from Cor. No. 1 of the Detroit No. 13 lode; 4 feet wide, 10 ft. face runs S 60° W 12 ft. to face. Value \$50

No. 5 An open cut, the mouth of which bears N 2° 05' E 239 ft. from Cor. No. 1 of the Detroit No. 13 lode; 8 feet wide, 8 ft. face runs N 45° E 18 ft. to face. Value \$50

No. 6 An open cut, the mouth of which bears N 47° 40' E 498 ft. from Cor. No. 1 of the Detroit No. 13 lode; 8 feet wide, 10 ft. face, runs W 60° E 20 ft. to face. Value \$100

No. 7 The discovery cut of the Detroit No. 13 lode, the face of which bears the discovery point is on the center line 400 feet from the east end center; 4 feet wide, 10 ft. face, runs S 52° 33' W 13 ft. to face. Value \$55

No. 8 An open cut, the mouth of which bears N 30° 10' E 402 ft. from the west end center; 4 feet wide, 10 ft. face runs W 60° E 12 ft. to face. Value \$50

A 1/2 interest in No. 2 and No. 3 of the Detroit No. 13 lode. Value \$1425

FINAL OATHS FOR SURVEYS

LIST OF NAMES

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

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 Western Copper & Mining Co. known as the - Detroit No. 4, Detroit No. 14, Detroit No. 15, Detroit No. 16, Detroit No. 17, Detroit No. 18, Detroit No. 19, Detroit No. 20, Detroit No. 21, Detroit No. 22, Detroit No. 23, Detroit No. 24, Detroit No. 25 and Detroit No. 26

and showing the respective capacities in which they acted.

Allen Hanley, Chainman.

....., Chainman.

Jack Roland, Axman.

....., Flagman.

FINAL OATHS OF ASSISTANTS

We, Allen Hanley

and Jack Roland, do solemnly swear that we assisted Ralph L. Motz

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

the boundaries of the mining claim of Western Copper & Mining Co., known as the -

Detroit No. 4, Detroit No. 14, Detroit No. 15, Detroit No. 16, Detroit No. 17, Detroit No. 18, Detroit No. 19, Detroit No. 20, Detroit No. 21, Detroit No. 22, Detroit No. 23, Detroit No. 24, Detroit No. 25 and Detroit No. 26

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, Arizona.

Allen Hanley, Chainman.

....., Chainman.

Jack Roland, Axman.

....., Flagman

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

day of December, 19 33

Frank A. Starnes

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

My commission expires Sept. 4, 1934.

Oct 17. 1936

FINAL OATH OF U. S. MINERAL SURVEYOR.

I, Ralph L. Motz, U. S. Mineral Surveyor, do solemnly swear that, in pursuance of instructions received from the Office Cadastral Engineer, at Phoenix, Arizona, dated August 9, 1933.

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 Western Copper & Mining Co., Known as the Detroit No. 4, Detroit No. 14, Detroit No. 15, Detroit No. 16, Detroit No. 17, Detroit No. 18, Detroit No. 19, Detroit No. 20, Detroit No. 21, Detroit No. 22, Detroit No. 23, Detroit No. 24, Detroit No. 25 and Detroit No. 26 situate in Greenlee Gold Mountain Mining District,

Greenlee County, Arizona, in Section 8 13, 14, 15, 23, Township No. 4 S, Range No. 29 E, G & S R B & M

and designated as Survey No. 4167, as represented in the foregoing field notes, which accurately show the boundaries of said mining claim as distinctly marked by monuments on the ground, and described in the attached copy of the location certificate, which was received by me from the Office Cadastral Engineer with said instructions, and that all corners of said survey have been established and perpetuated in strict accordance with the law, official regulations and instructions thereunder; and I do further solemnly swear that the foregoing are the true and original field notes of said survey and my report therein, and that the labor expended and improvements made upon said mining claim by claimant or 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.

Ralph L. Motz
U. S. Mineral Surveyor.

Subscribed and sworn to by the said Ralph L. Motz
U. S. Mineral Surveyor, before me D. M. Simpson
Notary Public this 29th
day of January, 1934

D. M. Simpson

Notary Public, in and for the County of Cochise, State of Arizona.
My commission expires

My Commission Expires August 9, 1937.



OFFICE CADASTRAL ENGINEER'S FINAL CERTIFICATE ON FIELD NOTES

Department of the Interior

PUBLIC SURVEY OFFICE

Phoenix, Arizona

February 21, 1934

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 Western Copper and Mining Co., known as the
Detroit No. 4, Detroit No. 14, Detroit No. 15, Detroit No. 16,
Detroit No. 17, Detroit No. 18, Detroit No. 19, Detroit No. 20,
Detroit No. 21, Detroit No. 22, Detroit No. 23, Detroit No. 24,
Detroit No. 25, Detroit No. 26situate in Greenlee Gold MountainMining District Greenlee County Arizonain Section 13, 14,
15, 23, Township No. 4 S, Range No. 29 E. G & S R B & M anddesignated as Survey No. 4167, has been correctly copied from the originals on file inthis 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.

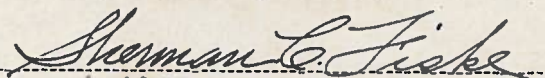
I further certify that Five Hundred Dollars worth of labor has been expended or improvements made upon, or for the benefit of, each location embraced in said mining claim by claimant Western Copper & Mining Company or its grantors, and that said improvements consist of 7 Shafts, 34 Cuts and 4 Tunnels, Value \$7,135.00 and an undivided interest to the amount of \$18,618.46 in certain common improvements located on claims of Mineral Surveys Nos. 2709 and 4168, as described in the foregoing Field Notes.

Total Value \$25,753.46.

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 PhoenixArizona is correct and in conformity with the foregoing Field Notes.

Sherman C. Fiske


Acting Office Cadastral Engineer.

CERTIFICATE OF APPROVAL OF FIELD NOTES AND SURVEY OF MINING CLAIM

DEPARTMENT OF THE INTERIOR PUBLIC SURVEY OFFICE

At Phoenix, Arizona

February 21, 1934.

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 Western Copper and Mining Co., known as the Detroit No. 4, Detroit No. 14, Detroit No. 15, Detroit No. 16, Detroit No. 17, Detroit No. 18, Detroit No. 19, Detroit No. 20, Detroit No. 21, Detroit No. 22, Detroit No. 23, Detroit No. 24, Detroit No. 25, Detroit No. 26 situate in Greenlee Gold Mountain mining district,

Greenlee County Arizona

in Sections 13, 14, 15, 23, Township No. 4 S, Range No. 29 E G & S R B & M

designated as Survey No. 4167

executed by Ralph L. Motz, U. S. Mineral

Surveyor, November 1st to November 15th, 1933, under my instructions dated

August 9, 1933 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 certificates filed by the applicant for survey is

are on file in this office and a true copy of said copies of said location certificates are included and

made a part of the transcript of the field notes.

Sherman C. Fiske Acting Office Cadastral Engineer.

4-683

MINERAL SURVEY No. 4167ARIZONA *Land District*SUPPLEMENTAL
FIELD NOTES

OF THE SURVEY OF THE MINING CLAIM OF

Western Copper & Mining Co.

KNOWN AS THE
 Detroit No. 4, Detroit No. 14, Detroit No. 15, Detroit No. 16,
 Detroit No. 17, Detroit No. 18, Detroit No. 19, Detroit No. 20,
 Detroit No. 21, Detroit No. 22, Detroit No. 23, Detroit No. 24,
 Detroit No. 25, Detroit No. 26

Greenlee Gold Mountain *Mining District,*Greenlee *County,* Arizona

13, 14,
 Section 15, 23, Township 4 S., Range 29 E.
 G. & S. R. B. & M.

Surveyed under instructions dated August 9, 1933

By Ralph L. Motz
 U. S. Mineral Surveyor.

Claim located _____, 19____

Survey commenced November 1, 1933Survey completed November 15, 1933

Address of claimant's attorney, Cleon T. Knapp,
Consol. Natl Bank Bldg.,
Tucson, Arizona

DATES OF AMENDED LOCATIONS

March 7, 9, 10 and 24, 1931

MINERAL SURVEY No. 4167, ARIZONA
SUPPLEMENTAL FIELD NOTES

Feet

On June 25, 1934, the Western Copper and Mining Company, claimants, made mineral entry for the land in sections 13, 14, 15 and 23, T. 4 S., R. 29 E., G. & S.R.B. & M., Arizona, included within Mineral Survey No. 4167, embracing the Detroit No. 4 and Nos. 14 to 26 inclusive, lode mining claims.

On June 12, 1935, the Commissioner of the General Land Office canceled the said mineral entry to the extent of that portion of the Detroit No. 15 lode lying in Section 15 and that portion of the Detroit No. 26 lode lying in Section 13.

In compliance with instructions received in the Commissioners' letter "N" of June 12, 1935, the following supplemental field notes have been prepared for the purpose of showing the courses and distances of the lines bounding the canceled portions of the Detroit No. 15 and Detroit No. 26 lodes, and the acreage of each.

DETROIT No. 15 lode
(in Section 15, T. 4 S., R. 29 E.)

Beginning at Cor. No. 2 of Detroit No. 15 lode of this survey

Thence, N. 52° 53' E.

on N.W. side line (2-3) of the claim.

166.23 Intersect the subdivision line between sections 14 and 15.

Thence, South

on section line.

240.65 Intersect the S.W. end line (1-2) of the claim.

Thence, N. 43° 22' W.

on S.W. end line (1-2) of the claim.

193.04 Cor. No. 2, and place of beginning.

AREA

	Acres
Area of Detroit No. 15 lode in Sec. 14 -	20.172
Area of Detroit No. 15 lode in Sec. 15 -	<u>0.366</u>
Total Area of Detroit No. 15 lode -	20.538

DETROIT No. 26 lode
(in Section 13, T. 4 S., R. 29 E.)

Beginning at Cor. No. 2 of the Detroit No. 26 lode of this survey

Thence, S. 52° 53' W.

on S.E. end line (2-3) of the claim.

300.00 South end center

600.00 Cor. No. 3.

Thence, N. 43° 22' W.

on S.W. side line (3-4) of the claim.

DETOIT LODE NO. 26
SECTION 13 AND 14

Feet		Feet
194.81	Intersect the west boundary of section 13, T. 4 S., R. 29 E. Thence, N. 0° 18' W. on section line.	
815.64	The east $\frac{1}{4}$ sec. cor. of section 14.	
873.45	Intersect the N.E. side line (1-2) of the claim. Thence, S. 43° 22' E. on N.E. side line (1-2) of the claim.	
898.24	Cor. No. 2, and place of beginning.	

AREA

	Acres
Area of Detroit No. 26 lode in Sec. 13 -	7.483
Area of Detroit No. 26 lode in Sec. 14 -	13.055
Total Area Detroit No. 26 lode -	20.538

AREA

Acres	
7.483	Area of Detroit No. 26 lode in Sec. 13
13.055	Area of Detroit No. 26 lode in Sec. 14
20.538	Total Area of Detroit No. 26 lode

SUPPLEMENTAL
**CERTIFICATE OF APPROVAL OF FIELD NOTES ~~AND SURVEY~~ OF
 MINING CLAIM**

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

At Phoenix, Arizona

June 20, 1935

I, Office Cadastral Engineer at Phoenix, Arizona

do hereby certify that the foregoing and hereto attached Supplemental Field Notes ~~and Plan~~ of the Survey of the Mining Claim of Western Copper and Mining Co. have been prepared in compliance with instructions from the Commissioner of the General Land Office dated June 12, 1935 (Phoenix 074719 "N" NFS) and that said Supplemental Field Notes of the Detroit No. 15 and Detroit No. 26 lode claims situate in Greenlee Gold Mountain mining district,

Greenlee County Arizona

in Section s. 13 and 15, Township No. 4 S., Range No. 29 E.
G. & S.R.B. & M.
 designated as Survey No. 4167

executed by Ralph L. Motz, U. S. Mineral Surveyor, November 1st to November 15th, 1933, under my instructions dated August 9, 1933, have been critically examined and the necessary

Supplemental corrections and explanations made, and the said Field Notes ~~and Plan~~ are hereby approved. ~~The certified copy of the location certificate filed by the applicant for survey is on file in this office and a true copy of said certified copy of said location certificate is included and made a part of the transcript of the field notes.~~

Sherman C. Fiske
 Acting Office Cadastral Engineer