

4-688

MINERAL SURVEY No. 4166

ARIZONA *Land District*

FIELD NOTES

OF THE SURVEY OF THE MINING CLAIM OF

Western Copper and Mining Company

KNOWN AS THE

Novo, Novo No. 3, Novo No. 10, Novo No. 20, Novo No. 22, Novo 21st, Novo No. 23
Novo No. 25, Novo No. 26, Novo No. 27, Novo No. 28, Novo No. 29 and Novo No. 30

Greenlee Gold Mountain *Mining District,*

Greenlee *County,* Arizona

Section s 10, 11 & 14, *Township* 4 S, *Range* 29 E

G & S R B & M

Surveyed under instructions dated August 8, *,* 1933

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

Claim located July 1, September 1 and 10, *19* 25

Survey commenced October 15, *19* 33

Survey completed October 31, *19* 33

Address of claimant's attorney, Cleon T. Knapp, Tucson, Arizona.

DATES OF AMENDED LOCATIONS

February 7, 13, 17 and 19, 1931.

Mineral Survey No. 4166 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. 1 of the Novo No. 25 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 $13^{\circ} 50' E$.

NOVO NO.20

Beginning at Cor. No. 1 of the Novo No. 20 lode, where I set a quartz porphyry rock 26x10x6 inches, 16 inches in the ground, for Cor. No. 1, marked N20-1-4166;

Situated on line 3-4 of Survey No. 2709, Good Site lode

Identical with Cor. No. 1, Survey No. 4168, Novo No. 19 lode

From which

The $1/4$ Cor. between Secs. 10 and 11, 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 $N 72^{\circ} 18' E$ 301.3 ft. dist.

A pine post, 4 inches square, 4 feet long, set 18 inches in the ground in a mound of rocks bears $N 52^{\circ} 53' E$ 3.7 ft.

A porphyry ledge 23x58 ins., 18 inches above ground, bears $N 22^{\circ} 41' W$ 16.90 ft. dist., marked BR x N20-1-4166

A porphyry ledge 50x71 ins., 135 inches above ground, bears $S 72^{\circ} 39' E$ 58.0 ft., dist., marked BR x N20-1-4166

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

550.0 Cross gulch, 20 feet wide, course southerly.

952.5 Cor. No. 3, Survey No. 2709, Good Site lode.

- 1500.0 Cor. No. 2
 Identical with Cor. No. 2 of the Novo 21st lode of this survey
 Set a granite rock 25x9x7 ins., 16 inches in the ground for Cor. No. 2, marked N20-2-4166; N21-2-4166 from which
 A pine post 4 inches square, 4 feet long, set 18 inches in the ground in a mound of rocks bears N 25° 00' W 2.6 ft.
 A granite ledge 18x43 ins., 29 inches above ground, bears S 87° 33' E 5.8 ft. dist., marked B R x N20-2-4166
 A porphyry ledge 12x23 ins., 23 inches above ground, bears S 80° 42' W 12.7 ft. dist., marked BR x N20-2-4166
 Thence S 25° 00' E
- 306.8 Original location for the east end center, identical with the west end center of the Novo 21st lode of this survey, being a mound of rocks 3 feet high with 3 feet base
- 613.6 Cor. No. 3
 Identical with Cor. No. 1 Novo 21st lode, Cor. No. 1 Novo No. 28 lode and Cor. No. 2 Novo No. 3 lode, all of this survey
 Set a quartzite rock 29x9x6 ins., 16 inches in the ground for Cor. No. 3, marked N20-3-4166; N21-1-4166; N28-1-4166; N3-2-4166; from which
 A pine post 4 inches square, 4 feet long, set 18 inches in the ground in a mound of rocks, bears N 25° 00' W 4.1 ft.
 A quartzite ledge 16x43 ins., 46 inches above ground bears N 39° 41' W 12.38 ft. dist., marked BR x N20-3-4166
 A quartzite ledge 28x45 ins., 41 inches above ground bears N 44° 44' E 32.7 ft. dist., marked BR x N20-3-4166
 Thence S 52° 53' W
- 1170.0 Cross gulch, 20 feet wide, course southerly
- 1345.0 Cross gulch, 20 feet wide, course southeasterly
- 1500.0 Cor. No. 4
 Identical with Cor. No. 1 Novo No. 3 lode of this survey; Cor. No. 1 Survey No. 4168 Novo No. 2 lode; and Cor. No. 2 Survey No. 4168 Novo No. 19 lode
 Set a porphyry rock 26x8x6 ins., 16 inches in the ground for Cor. No. 4, marked N20-4-4166; N3-1-4166 from which
 A pine post 4 feet long, 4 inches square, set 18 inches in the ground in a mound of rocks, bears S 25° 00' E 4.5 ft.
 a granite ledge 9x19 ins., 12 inches above ground,

bears S 29° 16' W 14.36 ft. dist., marked BR x N20-4-4166

A granite ledge 12x22 ins., 21 inches above ground, bears S 27° 52' E 36.0 ft. dist., marked BR x N20-4-4166

202 Thence N 25° 00' W
Cross gulch, 20 feet wide, course southeasterly

306.8 Original location for the west end center, identical with the east end center, Survey No. 4168 Novo No. 19 lode, being a mound of rocks 3 feet high with 3 feet base

613.6 Cor. No. 1 and place of beginning.

NOVO 21st

Beginning at Cor. No. 1 of the Novo 21st lode, which is identical with Cor. No. 3 of the Novo No. 20, Cor. No. 2, Novo No. 3, and Cor. No. 1 of Novo No. 28, lodes of this survey, from which
The 1/4 Cor. between Secs. 10 and 11, T 4 S, R 29 E, G & S R B & M, previously described, bears S 77° 34' W 1196.4 ft. dist.

Thence N 25° 00' W

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

613.6 Cor. No. 2
Identical with Cor. No. 2 of the Novo No. 20 lode of this survey

Thence N 52° 53' E

1500.0 Cor. No. 3
Set a quartzite rock 27x8x8 ins., 17 inches in the ground for Cor. No. 3, marked N21-3-4166, from which
A pine post 4 feet long, 4 inches square, set 18 inches in the ground in a mound of rocks, bears S 25° 00' E 4.6 ft.

A quartzite ledge 36x54 ins., 6 inches above ground, bears N 25° 00' W 11.8 ft. dist., marked BR x N21-3-4166

A quartzite ledge 34 x 62 ins., 36 inches above ground, bears S 83° 22' W 24.28 ft. dist., marked BR x N21-3-4166

Thence S 25° 00' E

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

613.6 Cor. No. 4
Identical with Cor. No. 2 of the Novo No. 28 lode of this survey

Set a sandstone rock 26x12x5 ins., 17 inches in the

ground for Cor. No. 4, marked N21-4-4166; N28- 2-4166; from which

A pine post 4 feet long, 4 inches square set 18 inches in the ground in a mound of rocks, bears N 25° 00' W 4.0 ft.

A sandstone ledge 37x46 ins., 23 inches above ground bears S 66° 19' W 25.8 ft. dist., marked BR x N21-4-4166

A sandstone ledge 27x110 ins., 22 inches above ground, bears S 13° 59' E 14.56 ft. dist., marked BR x N21-4-4166

Thence S 52° 53' W

1500.0 Cor. No. 1 and place of beginning.

NOVO NO. 28

Beginning at Cor. No. 1 of the Novo No. 28 lode, which is identical with Cor. No. 1 of the Novo 21st, Cor. No. 3, Novo No. 20, and Cor. No. 2 of Novo No. 3, lodes of this survey.

Thence N 52° 53' E

1500.0 Cor. No. 2

Identical with Cor. No. 4 of the Novo 21st lode of this survey

Thence S 25° 00' E

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

613.6 Cor. No. 3

Identical with Cor. No. 2 of the Novo No. 29 lode of this survey

Set a sandstone rock 30x7x4 ins., 20 inches in the ground, marked N28-3-4166; N29-2-4166; from which

A pine post 4 feet long, 4 inches square, set 18 inches in the ground in a mound of rocks bears N 25° 00' W 5.5 ft.

A sandstone ledge 25x55 ins., 44 inches above ground bears S 37° 54' W 3.2 ft. dist., marked BR x N28-3-4166

A sandstone ledge 10x28 ins., 10 inches above ground bears N 25° 00' W 13.88 ft. dist., marked BR x N28-3-4166

Thence S 52° 53' W

540.0 Cross gulch, 10 feet wide, course southeasterly

1500.0 Cor. No. 4

Identical with Cor. No. 1 Novo No. 29; Cor. No. 3 Novo; Cor. No. 3 Novo No. 3 lodes, all of this survey

Set a granite rock 26x8x8 ins., 14 inches in the ground to bed rock, marked N28-4-4166; N29-1-4166; N-3-4166 N3-3-4166

from which

A pine post, 4 feet long, 4 inches square set 18 inches in the ground in a mound of rocks bears N 25° 00' W 5.6 ft.

A granite ledge 18x34 ins., 7 inches above ground bears N 21° 28' E 13.88 ft. dist., marked BR x N28-4-4166

A granite ledge 15x24 ins., 8 inches above ground bears S 69° 34' E 7.0 ft. dist., marked BR x N28-4-4166

Thence N 25° 00' W

158.6 Cross gulch, 10 feet wide, course southerly

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

613.6 Cor. No. 1 and place of beginning

NOVO NO. 3

Beginning at Cor. No. 1 of the Novo No. 3 lode, identical with Cor. No. 4 of the Novo No. 20 lode of this survey, and Cors. Nos. 1 and 2 of Novo No. 2 and Novo No. 19 lodes of Survey No. 4168, from which The 1/4 Cor. between Secs. 10 and 11, T 4 S, R 29 E, G & S R B & M, previously described bears N 2° 27' E 648.3 ft.

Thence N 52° 53' E

155.0 Cross gulch, 20 feet wide, course southeasterly

330.0 Cross gulch, 20 feet wide, course southerly

1500.0 Cor. No. 2

Identical with Cor. No. 3 of the Novo No. 20 and Cors. Nos. 1 of Novo 21st and Novo No. 28, lodes of this survey

Thence S 25° 00' E

306.8 Original location for the east end center, identical with west end center of the Novo No. 28 lode of this survey

445.0 Cross gulch, 10 feet wide, course southerly

613.6 Cor. No. 3

Identical with Cor. No. 4 of the Novo No. 28 Cor. No. 1 of Novo No. 29 and Cor. No. 3 of Novo, lodes of this survey

Thence S 52° 53' W

107.0 Cross gulch, 10 feet wide, course southerly

1500.0 Cor. No. 4

Identical with Cor. No. 2 of the Novo lode of this survey; Cor. No. 3 Survey No. 4168 Novo No. 1 lode; Cor. No. 2 Survey No. 4168 Novo No. 2 lode.

Set a porphyry rock 28x7x5 ins., 16 inches in the ground marked N3-4-4166; N-2-4166; from which

A pine post, 4 feet long, 4 inches square set 18 inches in the ground in a mound of stones, bears S 25° 00' E 4.8 ft.

A porphyry rock in place 18x26 inches; 15 inches above ground bears N 14° 14' W 5.4 ft. dist., marked BR x N3-4-4166

A porphyry ledge 8x24 ins., 26 inches above ground bears S 83° 06' E 45.3 ft. dist., marked BR x N3-4-4166

Thence N 25° 00' W

- 30.0 Cross gulch, 25 feet wide, course southerly
- 306.8 Original location for the west end center, identical with east end center Survey No. 4168 Novo No. 2 lode, being a mound of stones 3 feet high with 3 feet base.
- 613.6 Cor. No. 1 and place of beginning.

NOVO NO. 29

Beginning at Cor. No. 1 of the Novo No. 29 lode, identical with Cor. No. 4 of the Novo No. 28, and Cors. Nos. 3 of Novo and Novo No. 3 lodes of this survey, from which
The 1/4 Cor. between Secs. 10 and 11, T 4 S, R 29 E, G & S R B & M, previously described, bears N 78° 11' W 1458.6 ft.

Thence N 52° 53' E

- 960.0 Cross gulch, 10 feet wide, course southeasterly
- 1500.0 Cor. No. 2
Identical with Cor. No. 3 of the Novo No. 28 lode of this survey
Thence S 25° 00' E
- 200.0 Cross trail, course southerly
- 306.8 Original location for the east end center being a mound of stones 3 feet high with 3 feet base
- 613.6 Cor. No. 3
Identical with Cor. No. 3 of the Novo No. 30 lode of this survey

Set a granite rock 30x9x8 ins., 18 inches in the ground for Cor. No. 3; marked N29-3-4166; N30-3-4166, from which

A pine post 4 feet long, 4 inches square, set 18 inches in the ground in a mound of stones, bears N 25° 00' W 7.0 ft.

A quartzite ledge 22x31 ins., 20 inches above ground, bears N 52° 03' W 7.5 ft. dist., marked BR x N29-3-4166

A quartzite ledge 14x26 ins., 4 inches above ground bears N 27° 47' W 18.62 ft. dist., marked BR x

N29-3-4166

Thence S 52° 53' W

- 105.0 Cross gulch, 10 feet wide, course southeasterly
- 392.0 Cross trail, course southerly
- 1506.0 Cor. No. 4

Identical with Cor. No. 2 Novo No. 30 lode; Cor. No. 3 Novo No. 10 lode; Cor. No. 4 Novo lode, all of this survey.

On granite ledge outcrop 19x69 ins., 4 inches above ground, point for Cor. No. 4, marked N29-4-4166; N30-2-4166; N-4-4166; N10-3-4166; from which

A pine post 4 feet long, 4 inches square, set 18 inches in the ground in a mound of rocks, bears N 25° 00' W 3.75 ft.

A granite ledge 11x33 ins., 15 inches above ground bears N 25° 00' W 14.35 ft. dist., marked BR x N29-4-4166

A granite ledge 9x44 ins., 19 inches above ground bears S 25° 00' E 3.33 ft. dist., marked BR x N29-4-4166

Thence N 25° 00' W

306.8 Original location for the west end center, identical with the east end center of the Novo lode of this survey, being a mound of rocks 3 feet high with 3 feet base

613.6 Cor. No. 1 and place of beginning

NOVO

Beginning at Cor. No. 1 of the Novo lode

Identical with Cor. No. 2 of the Novo No. 10 lode of this survey; Cor. No. 3 of Survey No. 4168 Novo No. 9 lode; Cor. No. 4 of Survey No. 4168 Novo No. 1 lode, where I set

A porphyry rock 26x10x7 ins., 16 inches in the ground for Cor. No. 1; marked N-1-4166; N10-2-4166, from which

The Cor. of Secs. 10, 11, 14 and 15, T 4 S, R 29 E, G & S R B & M, being an iron post, 2 inches diam., 12 inches above ground, firmly set, with brass cap properly marked, bears S 29° 31' W 1030.3 ft. dist.

A pine post, 4 feet long, 4 inches square, set 16 inches in the ground to bedrock, in a mound of rocks, bears S 52° 53' W 2.7 ft.

A porphyry ledge 41x44 ins., 8 inches above ground, bears S 58° 02' W 11.1 ft. dist., marked BR x N-1-4166

A porphyry ledge 37x68 ins., 21 inches above ground, bears N 18° 37' E 11.6 ft. dist., marked BR x N-1-4166

Thence N 25° 00' W

- 275.0 Cross gulch, 25 feet wide, course southeasterly
- 306.8 Original location for the west end center, identical with the east end center, Survey No. 4168 Novo. No. 1 lode, being a mound of rocks 3 feet high with 3 feet base
- 613.6 Cor. No. 2
Identical with Cor. No. 4 of the Novo No. 3 lode of this survey and Cors. Nos. 3 and 2 of Novo No. 1 and Novo No. 2 lodes of Survey No. 4168
Thence N 52° 53' E
- 1393.0 Cross gulch, 10 feet wide, course southerly
- 1500.0 Cor. No. 3
Identical with Cor. No. 4 of the Novo No. 28, Cor. No. 1 of Novo No. 29 and Cor. 3 of Novo No. 3 lodes of this survey
Thence S 25° 00' E
- 306.8 Original location for the east end center, identical with the west end center of the Novo No. 29 lode of this survey.
- 613.6 Cor. No. 4
Identical with Cor. No. 4 of the Novo No. 29, Cor. No. 2 of Novo No. 30, and Cor. No. 3 of Novo No. 10 lodes of this survey
Thence S 52° 53' W
- 1400.0 Cross gulch, 30 feet wide, course southerly
- 1500.0 Cor. No. 1 and place of beginning.

NOVO NO. 30

Beginning at Cor. No. 1 of the Novo No. 30 lode

Identical with Cor. No. 2 of Novo No. 27 lode; Cor. No. 4 of the Novo No. 22 lode; Cor. No. 4 of the Novo No. 10 lode, all of this survey, where I set

A quartzite rock 26x10x5 ins., 16 inches in the ground for Cor. No. 1, marked N30-1-4166; N27-2-4166; N22-4-4166; N10-4-4166; from which

The 1/4 Cor. between Secs. 11 and 14, 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 28° 31' E 1416.2 ft. dist.

A pine post, 4 feet long, 4 inches square, set 14 inches in the ground to bedrock in a mound of rocks, bears N 25° 00' W 5.1 ft.

A quartzite ledge 16x27 ins., 18 inches above ground, bears S 3° 11' W 14.68 ft. dist., marked BR x N30-1-4166

A quartzite ledge 12x23 ins., 51 inches above ground, bears S 47° 47' E 19.82 ft. dist., marked BR x N30-1-4166

- Thence N 25° 00' W
- 306.8 Original location for the west end center, identical with the east end center of the Novo No. 10 lode of this survey, being a mound of rocks 3 feet high with 3 feet base
- 613.6 Cor. No. 2
Identical with Cors. Nos. 4 of the Novo and Novo No. 29 lodes and Cor. No. 3 of Novo No. 10 lode all of this survey
- 1108.0 Cross trail course southerly
Thence N 52° 53' E
- 1395.0 Cross gulch, 10 feet wide, course southeasterly
- 1500.0 Cor. No. 3
Identical with Cor. No. 3 of the Novo No. 29 lode of this survey
- 155.0 Cross gulch, course southeasterly
Thence S 25° 00' E
- 306.8 Original location for the east end center, being a mound of stones 3 feet high with 3 feet base
- 613.6 Cor. No. 4
Identical with Cor. No. 3 of the Novo No. 27 lode of this survey
- Set a quartz rock 25x9x5 ins., 16 inches in the ground for Cor. No. 4, marked N30-4-4166; N27-3-4166; from which
- A pine post 4 feet long, 4 inches square, set 16 ins. in the ground to bedrock in a mound of rocks, bears N 25° 00' W 8.0 ft.
- A quartz ledge 11x28 ins., 9 inches above ground, bears N 64° 15' W 10.4 ft. dist., marked BR x N30-4-4166
- A quartz ledge 16x68 ins., 9 inches above ground, bears N 2° 11' W 31.55 ft. dist., marked BR x N30-4-4166
- Thence S 52° 53' W
- 680.0 Cross gulch, 10 feet wide, course southeasterly
- 710.0 Cross trail, course southeasterly
- 1500.0 Cor. No. 1 and place of beginning.

NOVO NO. 10

Beginning at Cor. No. 1 of the Novo No. 10 lode

Identical with Cor. No. 3 of the Novo No. 22 lode of this survey; Cor. No. 2 of Survey No. 4168 Novo No. 11 lode; Cor. No. 3 of Survey No. 4168 Novo No. 9 lode, where I set

A granite rock 26x10x6 ins., 13 inches in the

ground to bed rock for Cor. No. 1, marked N10-1-4166; N22-3-4166, from which

The Cor. of Secs. 10, 11, 14 and 15, T 4 S, R 29 E, G & S R B & M, previously described, bears S 66° 04' W 839.0 ft. dist.

A pine post, 4 feet long, 4 inches square, set 14 inches in the ground to bedrock in a mound of rocks bears S 52° 53' W 3.6 ft.

A granite ledge 10x64 ins., 21 inches above ground, bears S 4° 09' E 13.75 ft. dist., marked BR x N10-1-4166

A granite ledge 29x37 ins., 4 inches above ground bears S 69° 42' E 7.9 ft. dist., marked BR x N10-1-4166

Thence N 25° 00' W

306.8 Original location for the west end center, identical with the east end center of Survey No. 4168 Novo No. 9 lode, being a mound of stones 3 feet high with 3 feet base

500.0 Cross gulch, 30 feet wide, course southwesterly

613.6 Cor. No. 2

Identical with Cor. No. 1 of the Novo lode of this survey and Cors. Nos. 2 and 4 of Novo No. 9 and Novo No. 1 lodes of Survey No. 4168
Thence N 52° 53' E.

100.0 Cross gulch, 30 feet wide, course southerly

1500.0 Cor. No. 3

Identical with Cors. Nos. 4 of the Novo and Novo No. 29 lodes and Cor. No. 2 of Novo No. 30 lode., all of this survey

Thence S 25° 00' E

306.8 Original location for the east end center, identical with the west end center of the Novo No. 30 lode of this survey

613.6 Cor. No. 4

Identical with Cor. No. 1 of the Novo No. 30, Cor. No. 2 of Novo No. 27 and Cor. No. 4 of Novo No. 22 lodes, all of this survey

Thence S 52° 53' W

1500.0 Cor. No. 1 and place of beginning.

NOVO NO. 27

Beginning at Cor. No. 1 of the Novo No. 27 lode

Identical with Cor. No. 2 of the Novo No. 26 lode; Cor. No. 4 of the Novo No. 23 lode; Cor. No. 1 of the Novo No. 22 lode, all of this survey,
I set

Point for Cor. No. 1 on a quartzite ledge outcrop 16x49 ins., 6 inches above ground, marked N27-1-4166; N26-2-4166; N23-4-4166; N22-1-4166; from

which

The 1/4 Cor. between Secs. 11 and 14, T 4 S, R 29 E, G & S R B & M, bears S 31° 10' E 804.6 ft. dist.

A pine post 4 feet long, 4 inches square, set 12 inches in the ground to bed rock in a mound of rocks, bears N 25° 00' W 4.6 ft.

A quartzite ledge 19x21 ins., 28 inches above ground, bears N 25° 00' W 10.25 ft. dist., marked BR x N27-1-4166

A quartzite ledge 27x50 ins., 9 inches above ground bears S 25° 00' E 8.2 ft. dist., marked BR x N27-1-4166

Thence N 25° 00' W

306.8 Original location for the west end center, identical with the east end center of the Novo No. 22 lode of this survey, being a mound of stones, 3 feet high with 3 feet base

613.6 Cor. No. 2
Identical with Cor. No. 1 of the Novo No. 30 Cors. Nos. 4 of Novo No. 10 and Novo No. 22 lodes, all of this survey

Thence N 52° 53' E

790.0 Cross trail, course southeasterly

820.0 Cross gulch, 10 feet wide, course southeasterly

1500.0 Cor. No. 3

Identical with Cor. No. 4 of the Novo No. 30 lode of this survey

Thence S 25° 00' E

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

560.0 Cross gulch, 20 feet wide, course easterly

613.6 Cor. No. 4

Identical with Cor. No. 3 of the Novo No. 26 lode of this survey

Set a sandstone rock 30x10x9 ins., 16 inches in the ground for Cor. No. 4, marked N27-4-4166; N26-3-4166; from which

A pine post 4 feet long, 4 inches square set 18 inches in the ground in a mound of rocks, bears N 25° 00' W 9.0 ft.

A sandstone ledge 13x128 ins., 55 inches above the ground, bears N 78° 27' W 19.2 ft., dist., marked BR x N27-4-4166

A sandstone ledge 6x22 ins., 28 inches above ground, bears S 9° 05' E 20.44 ft. dist., marked BR x N27-4-4166

Thence S 52° 53' W

302.0 Cross trail, course southeasterly
 1500.0 Cor. No. 1 and place of beginning.

NOVO NO. 22

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

Identical with Cor. No. 1 of the Novo No. 27, Cor. No. 2 of Novo No. 26 and Cor. No. 4 of Novo No. 23 lodes all of this survey

Thence S 52° 53' W

1500.0 Cor. No. 2

Identical with Cor. No. 3 of the Novo No. 23 lode of this survey; Cor. No. 3 of Survey No. 4168 Novo No. 18 lode; Cor. No. 3 of Survey No. 4168 Novo No. 11 lode

Set a quartzite rock 26x7x5 ins., 18 inches in the ground, for Cor. No. 2, marked N22-2-4166; N23-3-4166; 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 3.6 ft.

A granite ledge 30x44 ins., 50 inches above ground bears N 3° 24' E 68.0 ft., dist., marked BR x N22-2-4166

A granite ledge 22x25 ins., 14 inches above ground bears S 89° 36' W 21.34 ft., dist., marked BR x N22-2-4166

Thence N 25° 00' W

306.8 Original location for the west end center, identical with east end center of Survey No. 4168 Novo No. 11 lode, being a mound of rocks 3 feet high with 3 feet base

613.6 Cor. No. 3

Identical with Cor. No. 1 of the Novo No. 10 lode of this survey and Cors. Nos. 2 and 3 of Novo. No. 11 and Novo No. 9 lodes of Survey No. 4168

Thence N 52° 53' E

1500.0 Cor. No. 4

Identical with Cor. No. 1 of the Novo No. 30, Cor. No. 2 of Novo No. 27 and Cor. No. 4 of Novo No. 10 lodes all of this survey

Thence S 25° 00' E

306.8 Original location for the east end center, identical with the west end center of the Novo No. 27 lode of this survey

613.6 Cor. No. 1 and place of beginning.

NOVO NO. 26

Beginning at Cor. No. 1 of the Novo No. 26 lode

Identical with Cor. No. 1 of the Novo No. 25 lode of this survey; Cor. No. 1 of the Novo No. 23 lode of

this survey; Cor. No. 1 of Survey No. 4165 Detroit
No. 7 lode

A granite rock 7x12 ins., 12 inches above ground
marked N26-1-4166; N25-1-4166; N23-1-4166; from
which

The 1/4 Cor. between Secs. 11 and 14, T 4 S, R 29
E, G & S R B & M, previously described bears
S 49° 52' E 205.4 ft.

Thence N 25° 00' W

306.8 Original location for the west end center, identical with
the east end center of the Novo No. 23 lode of this
survey, being a mound of stones 3 feet high with 3
feet base

613.6 Cor. No. 2

Identical with Cor. Nos. 1 of the Novo No. 27 and Novo
No. 22 lodes and Cor. No. 4 of Novo No. 23 lode, all
of this survey

Thence N 52° 53' E

1198.0 Cross trail, course southeasterly

1500.0 Cor. No. 3

Identical with Cor. No. 4 of the Novo No. 27 lode of
this survey

Thence S 25° 00' E

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

613.6 Cor. No. 4

Identical with Cor. No. 2 of the Novo No. 25 lode of
this survey

Set a granite rock 29x6x5 ins., 17 inches in the
ground for Cor. No. 4, marked N26-4-4166; N25-2-
4166; from which

A pine post 4 feet long, 4 inches square set 18
inches in the ground in a mound of rocks, bears
N 25° 00' W 4.8 ft

Thence S 52° 53' W

435.0 Cross gulch, 10 feet wide, course easterly

612.0 Cross trail, course southerly

1500.0 Cor. No. 1 and place of beginning

NOVO NO. 23

Beginning at Cor. No. 1 of the Novo No. 23 lode

Identical with Cor. Nos. 1 of the Novo No. 26 and Novo
No. 25 lodes of this survey and Cor. No. 1 of Detro
No. 7 lode of Survey No. 4165
Thence S 52° 53' W

1500.0 Cor. No. 2

Identical with Cor. No. 4 of Survey No. 4165 Detroit

No. 7 lode; Cor. No. 3 of Survey No. 4168 Detroit No. 6 lode; Cor. No. 4 of Survey No. 4168 Novo No. 18 lode, A granite rock, 7x16 ins., 9 ins. above the ground, marked N23-2-4166, Thence N 25° 00' W

306.8 Original location for the west end center, identical with the east end center of Survey No. 4168 Novo No. 18 lode, being a mound of rocks 3 feet high with 3 feet base

613.6 Cor. No. 3
Identical with Cor. No. 2 of the Novo No. 22 lode of this survey and Cors. Nos. 3 of Novo No. 11 and Novo No. 18 lodes of Survey No. 4168
Thence N 52° 53' E

1500.0 Cor. No. 4
Identical with Cors. Nos. 1 of the Novo No. 27 and Novo No. 22 lodes and Cor. No. 2 of Novo No. 26 lode, all of this survey
Thence S 25° 00' E

306.8 Original location for the east end center, identical with the west end center of the Novo No. 26 lode of this survey

613.6 Cor. No. 1 and place of beginning.

NOVO NO. 25

Beginning at Cor. No. 1 of the Novo No. 25 lode
Identical with Cors. Nos. 1 of the Novo No. 26 and Novo No. 23 lodes of this survey and Cor. No. 1 of Detroit No. 7 lode of Survey No. 4165
Thence N 52° 53' E

888.0 Cross trail, course southerly

1065.0 Cross gulch, 10 feet wide, course easterly

1500.0 Cor. No. 2
Identical with Cor. No. 4 of the Novo No. 26 lode of this survey
Thence S 25° 00' E

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

613.6 Cor. No. 3
Identical with Cor. No. 2 of Survey No. 4165 Novo No. 24 lode

A granite rock 9x10 ins., 10 inches above ground marked N25-3-4166
Thence S 52° 53' W

120.0 Cross gulch, 20 feet wide, course southeasterly

1125.0 Cross gulch, 10 feet wide, course southeasterly

1500.0 Cor. No. 4

Identical with Cors. Nos. 1 of Novo No. 24 and Detroit.
 No. 9 lodes and Cor. No. 2 of Detroit No. 7 lode all
 of Survey No. 4165
 A granite rock 7x10 ins., 12 inches above ground,
 Marked N25-4-4166

 Thence N 25° 00' W

306.8 Original location for the west end center, identical
 with the east end center of Survey No. 4165 Detroit
 No. 7 lode

613.6 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:-

- Novo No. 20 lode, S 52° 53' W 100 ft., and N 52° 53' E
1400 ft.
- Novo 21st lode, S 52° 53' W 800 ft., and N 52° 53' E
700 ft.
- Novo No. 28 lode, S 52° 53' W 70 ft., and N 52° 53' E
1430 ft.
- Novo No. 3 lode, S 52° 53' W 150 ft., and N 52° 53' E
1350 ft.
- Novo No. 29 lode, S 52° 53' W 100 ft., and N 52° 53' E
1400 ft.
- Novo lode, S 52° 53' W 700 ft., and N 52° 53' E 800 ft.,
- Novo No. 30, S 52° 53' W 1350 ft., and N 52° 53' E
150 ft.
- Novo No. 10 lode, S 52° 53' W 135 ft., and N 52° 53' E
1365 ft.
- Novo No. 27 lode, S 52° 53' W 1050 ft., and N 52° 53' E
450 ft.
- Novo No. 22 lode, S 52° 53' W 920 ft., and N 52° 53' E
580 ft.
- Novo No. 26 lode, S 52° 53' W 900 ft., and N 52° 53' E
600 ft.
- Novo No. 23 lode, S 52° 53' W 340 ft., and N 52° 53' E
1160 ft.
- Novo No. 25 lode, S 52° 53' W 1140 ft., and N 52° 53' E
360 ft.

AREAS

- Total Area - Novo No. 20 lode - - - - - acres 20.659
- Total Area - Novo 21st lode - - - - - 20.659
- Total Area - Novo No. 28 lode - - - - - 20.659
- Total area - Novo No. 3 lode - - - - - 20.659

acres

- Total area - Novo No. 29 lode - - - - - 20,659
- Total Area - Novo lode - - - - - 20,659
- Total Area - Novo No. 30 lode - - - - - 20,659
- Total area - Novo No. 10 lode - - - - - 20,659
- Total area - Novo No. 27 lode - - - - - 20,659
- Total Area - Novo No. 22 lode - - - - - 20,659
- Total area - Novo No. 26 lode - - - - - 20,659
- Total area - Novo No. 23 lode - - - - - 20,659
- Total area - Novo No. 25 lode - - - - - 20,659

LOCATION

This survey is located in the SE 1/4 and the NE 1/4 of Sec. 10; Sec. 11 and the N 1/2 of Sec. 14, T 4 S, R 29 E, G & S R B & M., Arizona

The survey of each of the lode locations of this survey is identical with the amended notices 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:-

- No. 1 The discovery cut of the Novo No. 20 lode, the face of which being the discovery point, is on the center line 100 ft. from the west end center, 4 feet wide, 10 ft. face, runs North 12 ft. to face
Value \$50
- No. 1 The discovery cut of the Novo 21st lode, the face of which being the discovery point, is on the center line 700 ft. from the east end center; 5 ft. wide, 10 ft. face, runs S 10° W 16. ft. to face.
Value \$80
- No. 1 The discovery cut of the Novo No. 3 lode, the face of which being the discovery point, is on the center line 150 ft. from the west end center; 4 feet wide, 10 ft. face, runs N 52° 53' E 12 ft. to face.
Value \$50
- No. 1 The discovery cut of the Novo No. 28 lode, the face of which being the discovery point, is on center line 70 ft. from the west end center; 4 feet wide, 12 ft. face, runs N 52° 53' E 15 ft. to face
Value \$75
- No. 2 A shaft, the center of which bears S 5° 55' W 148 ft., from Cor. No. 2 Novo No. 28 lode; 4x6 ft., 10 ft. deep
Value \$60
- No. 1 The discovery cut of the Novo lode, the face of which being the discovery point, is on the center line 700 ft. from the west end center; 4 ft. wide; 10 ft. face, runs N 52° 53' E 13 ft. to face
Value \$55

- No. 2 An open cut, the mouth of which bears S 26° 35' W 170 ft. from Cor. No. 3 Novo lode; 6 feet wide, 10 ft. face, runs N 20° E 24 ft. to face
Value \$150
- No. 3 An open cut, the mouth of which bears South 117 ft. from Cor. No. 3 Novo lode; 5 feet wide, 12 ft. face, runs N 20° E 14 ft. to face and portal of tunnel 4x6 ft. in size, running N 10° W 60 ft. to breast
Value of cut and tunnel \$835
- No. 1 The discovery cut of the Novo No. 29 lode, the face of which being the discovery point, is on the center line 100 ft. from the west end center; 4 feet wide, 12 ft. face, runs N 52° 53' E 12 ft. to face
Value \$60
- No. 2 An open cut, the mouth of which bears N 62° 50' E 750 ft. from Cor. No. 1 Novo No. 29 lode; 6 ft. wide, 10 ft. face, runs S 60° W 12 ft. to face
Value \$75
- No. 3 An open cut, the mouth of which bears S 30° W 508 ft. from Cor. No. 2 Novo No. 29 lode; 5 feet wide, 12 ft. face, runs West 14 ft. to face and portal of tunnel 4x6 ft. in size, running West 11 ft. to breast
Value of cut and tunnel \$200
- No. 4 An open cut, the mouth of which bears S 22° 25' W 442 ft. from Cor. No. 2 Novo No. 29 lode; 5 feet wide, 10 ft. face, runs N 25° W 14 ft. to face and portal of tunnel 5x7 ft. in size, running N 25° W 42 ft. to breast.
Value of cut and tunnel \$705
- No. 1 The discovery cut of the Novo No. 10 lode, the face of which being the discovery point, is on the center line 135 ft. from the west end center; 4 feet wide, 10 ft. face, runs S 45° E 13 ft. to face
Value \$60
- No. 1 The discovery cut of the Novo No. 30 lode, the face of which being the discovery point, is on the center line 150 ft. from the east end center; 4 feet wide, 10 ft. face runs S 52° 53' W 12 ft. to face
Value \$60
- No. 1 The discovery cut of the Novo No. 22 lode, the face of which being the discovery point, is on the center line 580 ft. from the east end center,; 5 feet wide, 10 ft. face runs North 13 ft. to face
Value \$65
- No. 2 An open cut, the mouth of which bears N 63° 10' E 300 ft. from Cor. No. 3 Novo No. 22 lode; 6 feet wide, 8 ft. face, runs N 50° W 10 ft. to face
Value \$50
- No. 3 A shaft, the center of which bears N 60° 05' E 350 ft. from Cor. No. 3 Novo No. 22 lode; 4x6^{ft} in size, 10 ft. deep
Value \$60
- No. 1 The discovery cut of the Novo No. 27 lode, the face of which being the discovery point is on the center line 450 ft. from the east end center; 5 feet wide, 10 ft. face, runs S 80° W 14 ft. to face
Value \$75
- No. 1 The discovery cut of the Novo No. 23 lode, the face of which being the discovery point is on the center line 340 ft. from the west end center; 5 feet wide, 10 ft. face, runs N 25° W 10 ft. to face
Value \$50

No. 2 An open cut, the mouth of which bears S 41° 15' E 98 ft. from Cor. No. 3 Novo No. 23 lode; 4 feet wide, 10 ft. face runs N 50° W 12 ft. to face. Value \$50

No. 1 The discovery cut of the Novo No. 26 lode, the face of which being the discovery point is on the lode line 600 ft. from the east end center; 4 feet wide, 10 ft. face, runs N 75° W 12 ft. to face. Value \$50

No. 1 The discovery cut of the Novo No. 25 lode, the face of which being the discovery point is on the lode line 360 ft. from the east end center; 4 feet wide, 10 ft. face, runs S 52° 53' W 12 ft. to face. Value \$50

No. 2 An open cut, the mouth of which bears S 76° E 79 ft. from Cor. No. 1 Novo No. 25 lode; 5 feet wide, 8 ft. face; runs N 76° W 10 ft. to face; at face is shaft 5x5 ft. in size, 2 ft. deep. Value of cut and shaft \$70

No. 3 An open cut, the mouth of which bears S 72° 30' E 60 ft. from the west end center of the Novo No. 25 lode; 4 feet wide, 9 ft. face, runs S 80° W 10 ft. to face, at face is shaft 4x6 ft. in size, 2 feet deep. Value of cut and shaft \$70

A 1/30 interest in Improvement No. 2 of the Novo No. 14 lode of survey No. 4168 has been allotted to each claim of this survey. Value of 1/30 interest \$589

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

A 1/75 interest in diamond drilling and other improvements made in 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. 1 The discovery cut of the Novo No. 22 lode, the face of which being the discovery point is on the center line 580 ft. from the east end center; 5 feet wide, 10 ft. face runs North 12 ft. to face. Value \$65

No. 2 An open cut, the mouth of which bears N 82° 10' E 300 ft. from Cor. No. 3 Novo No. 22 lode; 6 feet wide, 8 ft. face, runs N 50° W 10 ft. to face. Value \$50

No. 3 A shaft, the center of which bears N 80° 05' E 350 ft. from Cor. No. 3 Novo No. 22 lode; 4x6 in size, 10 ft. deep. Value \$60

No. 1 The discovery cut of the Novo No. 27 lode, the face of which being the discovery point is on the center line 450 ft. from the east end center; 5 feet wide, 10 ft. face, runs S 80° W 14 ft. to face. Value \$75

No. 1 The discovery cut of the Novo No. 23 lode, the face of which being the discovery point is on the center line 240 ft. from the west end center; 5 feet wide, 10 ft. face, runs N 25° W 10 ft. to face. Value \$50

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 and Mining Company - known as - Novo, Novo No. 3, Novo No. 10, Novo No. 20, Novo No. 22, Novo 21st, Novo No. 23, Novo No. 25, Novo No. 26, Novo No. 27, Novo No. 28, Novo No. 29 and Novo No. 30

and showing the respective capacities in which they acted.

Allen Hanley , Chainman.

..... , Chainman.

George Dunagan , Axman.

..... , Flagman.

FINAL OATHS OF ASSISTANTS

We, Allen Hanley

and George Dunagan, 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 and Mining Company - known as the -

Novo, Novo No. 3, Novo No. 10, Novo No. 20, Novo No. 22, Novo 21st, Novo No. 23,

Novo No. 25, Novo No. 26, Novo No. 27, Novo No. 28, Novo No. 29 and Novo No. 30

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.

Allen Hanley , Chainman.

Geo. Dunagan , Axman.

..... , Flagman

Subscribed and sworn to by the above-named persons before me this NOV 10 1933

day of November, 1933

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

My commission expires Oct 11-1936



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 8, 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 and Mining Company - known as the, - Novo, Novo No. 3, Novo No. 10, Novo No. 20, Novo No. 22, Novo No. 21, Novo No. 23, Novo No. 25, Novo No. 26, Novo No. 27, Novo No. 28, Novo No. 29 and Novo No. 30 lodes situate in Greenlee Gold Mountain Mining District, Greenlee County, Arizona, in Section 10, 11, 14, Township No. 4 S, Range No. 29 E, G. & S. R. B. & M, and designated as Survey No. 4166, 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
Notary Public this 13th
day of November, 1933

D. M. Simpson
Notary Public, in and for the County of Cochise,
State of Arizona.

GOVERNMENT PRINTING OFFICE
My commission expires Aug. 9, 1937



OFFICE CADASTRAL ENGINEER'S FINAL CERTIFICATE ON FIELD NOTES

Department of the Interior

PUBLIC SURVEY OFFICE

Phoenix, Arizona

February 12, 1934

I, Office Cadastral Engineer 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 Company

known as the Novo, Novo No. 3, Novo No. 10, Novo No. 20, Novo No. 22,

Novo 21st, Novo No. 23, Novo No. 25, Novo No. 26, Novo No. 27,

Novo No. 28, Novo No. 29 and Novo No. 30

situate in Greenlee Gold Mountain

Mining District Greenlee County Arizona

in Sections 10, 11, 14 Township No. 4 S., Range No. 29 E.,

designated as Survey No. 4166, 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 Western Copper and Mining Company or its grantors,

and that said improvements consist of 4 shafts, 22 cuts, 3 tunnels + value \$3105.00 and an undivided interest to the amount of \$18,471.57 in certain common improvements located on claims of Mineral Surveys Nos. 2709 and 4168, as described in detail in the foregoing Field Notes.

Total Value of Improvements \$21,576.57.

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

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 12, 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 Company

Novo, Novo No. 3, Novo No. 10, Novo No. 20, Novo No. 22, Novo 21st,

Novo No. 23, Novo No. 25, Novo No. 26, Novo No. 27, Novo No. 28, situate in Novo No. 29 and Novo No. 30 mining district,

situate in Greenlee Gold Mountain Mining District,

in Sections 10, 11 & 14, Township No. 4 S., Range No. 29 E.

G & S R B & M, designated as Survey No. 4166

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

Surveyor, October 15th to October 31st, 1933, under my instructions dated

August 8, 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 certificate filed by the applicant for survey is

are 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,

Sherman C. Fiske

Acting Office Cadastral Engineer.