

4-683

UNITED STATES
DEPARTMENT OF THE INTERIOR
GENERAL LAND OFFICE

MINERAL SURVEY NO. 4271

Arizona Land District.

FIELD NOTES

Of The Survey Of The Mining Claim Of

Western Copper and Mining Company

Known As The

NOVO NO. 31, NOVO NO. 32 and NOVO NO. 33 lodes

Greenlee Gold Mountain Mining District,

Greenlee County, Arizona

Section s 11, 13 & 14, Township 4.S., Range 29 E., G&SRM

Surveyed under instructions dated May 14, 1943

by Ralph L. Motz
Mineral Surveyor.

Novo No. 31 and Novo No. 32, May 27, 1935,
Claims located; Novo No. 33, June 3, 1937

Survey commenced January 26, 1944

Survey completed January 29, 1944

Address of claimant 's attorney, Cleon T. Knapp,
c/o Knapp, Boyle & Thompson,
910 Valley National Bldg.,
Tucson, Arizona.

DATES OF AMENDED LOCATIONS

Feet

Mineral Survey No. 4271 was made with a C. L. Berger & Sons precise transit, with horizontal limb 6.25 inches in diameter, having 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 colored glass slide in a prismatic eye piece for making direct observations upon the sun. The instrument was in good condition at the time of survey and adjustments were in good order. All azimuths in this record are referred to the true meridian as determined by me in connection with Mineral Survey No. 4165, which survey adjoins this survey on the northwest, by the method of deflection angles and calculated courses.

The lines were measured with a Keuffel & Esser steel tape, 100 feet in length, graduated to feet, tenths and hundredths of feet for the entire length; a Keuffel & Esser steel tape, 300 feet in length, graduated to feet, tenths and hundredths of feet for the entire length; a Lufkin steel tape, 25 feet in length, graduated to feet, inches and fractions of inches for the entire length. All tapes were compared with a Lufkin standard tape at the time of beginning the survey, and found correct.

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

NOVO NO. 31

Beginning at Cor. No. 1 of the Novo No. 31 lode

Set a granite rock, 28x6x7 ins., 18 ins. in the ground mkd. N31-1-4271; from which

The closing corner, Secs. 11 and 14, T. 4 S., R. 29 E., G. & S. R. M. (~~on west line of Sec. 13~~) bears S. 39° 02' W., 165.6 ft., being an iron pipe with brass cap, loosely set in a monument and marked as described in the official record.

A monument of rocks, 3 ft. high, 3 ft. base, bears northwesterly 3 ft.

A granite rock in place, 18x31 ins., 30 ins. above ground bears N. 37° 07' E., 8.0 ft.; mkd. ER x N31-1-4271

A granite rock in place, 19x24 ins., 13 ins. above ground bears S. 40° 16' W., 10.6 ft., mkd. ER x N31-1-4271.

thence S. 52° 53' W.,

455.2 Cor. No. 1 of the Novo No. 32 lode of this survey

1333.0 Cross Western Gulch, 20 ft. wide, course southerly

1500.0 Cor. No. 2

Situated on line 4-1 of the Novo No. 32 lode of this survey and identical with Cor. No. 3 Sur. No. 4165 Detroit No. 3 lode, being

A granite rock, 8x9 ins., 17 ins. above ground; mkd. D3-3-4165; N31-2-4271; from which

A granite rock in place, 32x41 ins., 10 ins. above ground bears N. 73° 128 W., 20.7 ft., mkd. ER X N31-2-4271

Feet	
	<p>▲ granite rock in place, 21x43 ins., 8 ins. above ground bears N. 88° 39' W., 6.2 ft., mkd. BR X N31-2-4271</p> <p>▲ pine post 4 ins. square, 30 ins. above ground in a mound of rocks, bears S. 52° 53' W., 4.3 ft.</p> <p>thence N. 37° 07' W.,</p>
300.0	Intersect the west end of the lode line at the original location for the west end center, identical with the east end center of the Detroit No. 5 lode, Sur. No. 4165, being a monument of rocks 3 ft. high, 3 ft. base
600.0	<p>Cor. No. 3</p> <p>Identical with Cor. No. 2 Sur. No. 4165 Detroit No. 3 lode and situated on line 3-4 of the Novo No. 24 lode, Sur. No. 4165; being</p> <p>▲ granite rock, 7x9 ins., 12 ins. above ground, mkd. D3-2-4165; N31-3-4271; from which</p> <p>▲ granite rock in place, 22x48 ins., 11 ins. above ground, bears N. 50° 40' W., 15.35 ft., mkd. BR X N31-3-4271</p> <p>▲ granite ledge, 20x81 ins., 67 ins. above ground, bears N. 10° 55' E., 29.08 ft., mkd. BR X N31-3-4271</p> <p>▲ pine post, 4 ins. square, 30 ins. above ground in a mound of rocks bears S. 52° 53' W., 4.7 ft.</p> <p>thence N. 52° 53' E.,</p>
281.0	Cross Western Gulch, 20 ft. wide; course southeasterly
356.0	Cor. No. 3 Sur. No. 4165 Novo No. 24 lode
1500.0	<p>Cor. No. 4</p> <p>Set a granite rock, 6x10x30 ins., 20 ins. in the ground, mkd. N31-4-4271; from which</p> <p>▲ monument of rocks, 3 ft. high, 3 ft. base, bears northeasterly 3 ft.</p> <p>▲ granite ledge, 25x52 ins., 14 ins. above ground bears N. 52° 53' E., 26.4 ft., mkd. BR X N31-4-4271</p> <p>▲ granite ledge, 18x46 ins., 22 ins. above ground bears N. 37° 07' W., 32.7 ft., mkd. BR X N31-4-4271</p> <p>thence S. 37° 07' E.,</p>
300.0	Intersect the east end of the lode line at the original location for the east end center, being a monument of rocks, 3 ft. high, 3 ft. base
600.0	Cor. No. 1 and place of beginning.
	NOVO NO. 32
	Beginning at Cor. No. 1 of the Novo No. 32 lode
	Set a granite rock, 26x12x8 ins., 17 ins. in the ground,

Feet	
	<p>mkd. N32-1-4271; from which</p> <p>The closing corner of Secs. 11 and 14 (on west line of Sec. 15) T. 4 S., R. 29 E., G. & S. R. M., bears N. 60° 33' E., 297.1 ft., previously described</p> <p>A monument of rocks, 3 ft. high, 3 ft. base, bears northwesterly 3 ft.</p> <p>A granite rock in place, 31x33 ins., 36 ins. above ground bears N. 36° 33' W., 14.2 ft., mkd. BR X N32-1-4271</p> <p>A granite rock in place, 12x14 ins., 4 ins. above ground bears S. 25° 15' W., 14.5 ft., mkd. BR X N32-1-4271</p> <p>thence S. 43° 22' E.,</p>
301.75	Intersect the east end of the lode line at the original location for the east end center, being a monument of rocks, 3 ft. high, 3 ft. base
603.5	Cor. No. 2
	<p>Set a granite rock, 5x9 ins., 28 ins. long, 18 ins. in the ground, mkd. N32-2-4271; from which</p> <p>A monument of rocks, 3 ft. high, 3 ft. base, bears easterly 3 ft.</p> <p>thence S. 52° 53' W.,</p>
896.5	Cor. No. 3 of the Novo No. 33 lode of this survey
927.0	Cross Western Gulch, 25 ft. wide, course southeasterly
1198.25	North end center of the Novo No. 33 lode of this survey
1500.0	Cor. No. 3
	<p>Identical with Cor. No. 2 of the Novo No. 33 lode of this survey and situated on line 4-1 Sur. No. 4167 Detroit No. 24 lode</p> <p>Set a sandstone rock, 28x12x6 ins., 20 ins. in the ground, mkd. N32-3-4271; N33-2-4271; from which</p> <p>A quartzite rock in place, 12x15 ins., 12 ins. above ground bears N. 1° 16' W., 6.4 ft., mkd. BR X N32-3-4271</p> <p>A pine post 4 ins., square, 50 ins. above ground in a monument of rocks, bears N. 43° 22' W., 3.5 ft.</p> <p>thence N. 43° 22' W.,</p>
301.75	Intersect the west end of the lode line at the original location for the west end center, being a pine post, 4 ins. square, 4 ft. long, set 18 ins. in the ground in a mound of rocks, mkd. N32-WECT-4271
603.5	Cor. No. 4
	<p>Identical with Cor. No. 4 Sur. No. 4167 Detroit No. 24 lode and situated on line 3-4 Sur. No. 4165 Detroit No. 3 lode, being</p> <p>A granite rock, 5x9 ins., 10 ins. above ground, mkd. D24-4-4167; N32-4-4271; from which</p>

Feet	
	A pine post 4 ins. square, 30 ins. above ground in a mound of rocks, bears N. 52° 54' E., 4.0 ft.
	A granite ledge, 32x41 ins., 10 ins. above ground bears S. 22° 57' E., 63.7 ft., mkd. BR X N32-4-4271
	A granite rock in place, 14x15 ins., 13 ins. above ground bears N. 47° 38' E., 53.7 ft., mkd. BR x N32-4-4271
	thence N. 52° 53' E.,
455.2	Cor. No. 3 Sur. No. 4165 Detroit No. 3 and Cor. No. 2 of the Novo No. 31 lode of this survey
622.2	Cross Western Gulch, 20 ft. wide, course southerly
1500.0	Cor. No. 1 and place of beginning.
	NOVO NO. 33
	Beginning at Cor. No. 1 of the Novo No. 33 lode
	Situated on line 1-2 Sur. No. 4167 Detroit No. 26 lode and on line between the East 1/4 Cor. of Sec. 14 and the West 1/4 Cor. of Sec. 13, T. 4 S., R. 29 E., G. & S. R. M.
	Set a quartzite rock, 12x15x26 ins., 18 ins. in the ground, mkd. N33-1-4271; from which
	A monument of rocks, 3 ft. high, 3 ft. base, bears easterly 3 ft.
	The East 1/4 Cor. Sec. 14, T. 4 S., R. 29 E., G. & S. R.M. bears S. 0° 18' E., 59.25 ft., being an iron pipe with brass cap, firmly set and marked as described in the official record.
	The West 1/4 Cor. Sec. 13, T. 4 S., R. 29 E., G. & S. R. M. bears N. 0° 18' W., 360.75 ft., being an iron pipe with brass cap, firmly set and marked as described in the official record.
	thence N. 45° 22' W.,
599.5	Cors. 1 and 1 of Sur. No. 4167 Detroit No. 26 and Detroit No. 24 lodes, respectively.
1496.0	Cor. No. 2
	Identical with Cor. No. 3 of the Novo No. 32 lode of this survey
	thence N. 52° 53' E.,
301.75	Intersect the north end of the lode line at the original location for the north end center, being a monument of rocks, 3 ft. high, 3 ft. base
573.0	Cross Western Gulch, 25 ft. wide, course southeasterly
603.5	Cor. No. 3
	Situated on line 2-3 of the Novo No. 32 lode of this survey

Feet	<p>A diorite rock in place, 5x14 ins., 6 ins. above ground, mkd. N33-3-4271; from which</p> <p>A granite rock in place, 12x25 ins., 18 ins. above ground bears N. 84° 19' W., 10.0 ft., mkd. BR X N33-3-4271,</p> <p>thence S. 43° 22' E.,</p> <p>796.1 787.37 Intersect the west line of Sec. 13 (and the east line of Sec. 14), T. 4 S., R. 29 E., G. & S. R. M. at N. 0° 17' E., 512.24 ft. from the West 1/4, Cor. of Sec. 13, T. 4 S., R. 29 E., G. & S. R. M.</p> <p>1282.0 Cross Western Gulch, 25 ft. wide, course easterly</p> <p>1496.0 1500.0 Cor. No. 4.</p> <p>Set a granite rock, 27x9x6 ins., 18 ins. in the ground, mkd. N33-4-4271; from which</p> <p>A monument of rocks, 3 ft. high, 3 ft. base, bears southerly 3 ft.</p> <p>thence S. 52° 53' W.,</p> <p>301.75 Intersect the south end of the lode line at the original location for the south end center, being a monument of rocks, 3 ft. high, 3 ft. base.</p> <p>603.5 Cor. No. 1 and place of beginning.</p>
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LODE LINES

The lode lines of the several lode claims of this survey are, counted from their respective points of discovery, as follows:-

- Novo No. 31 lode:- S. 52° 53' W., 300 ft., and, N. 52° 53' E., 1200 ft.
- Novo No. 32 lode:- S. 52° 53' W., 300 ft., and, N. 52° 53' E., 1200 ft.
- Novo No. 33 lode:- S. 43° 22' E., 496 ft., and, N. 43° 22' W., 1000 ft.

AREAS

	acres
Total area Novo No. 31 lode - - - - -	20.661
Total area Novo No. 32 lode - - - - -	20.658
Total area Novo No. 33 lode - - - - -	20.603

Area in conflict with
 NW 1/4 SW 1/4 and SW 1/4 NW 1/4 Sec. 13 - - - 4.841

LOCATION

This survey is located in the SE 1/4 SE 1/4 (Lot 7), of Sec. 11, the NW 1/4 NW 1/4, SW 1/4 NW 1/4 and NW 1/4 SW 1/4 of Sec. 13, and Lots 5 and 6 of Sec. 14, all of T. 4 S., R. 29 E., G. & S. R. M.

The survey of each of the lode locations embraced in this survey is identical with the location 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 his grantors is not less than \$500, and that said improvements consist of:-

- No. 1 The discovery cut of the Novo No. 31 lode, the face of which being the discovery point is on the center line 300 ft. from the west end center; now caved, originally 4 ft. wide, 10 ft. face, running N. 53° E., 12 ft.
Value \$60
- No. 2 An open cut, the mouth of which bears N. 37° 10' W., 52.0 ft. from a point on line 1-2 N. 52° 53' E., 200 ft. from Cor. No. 2; 5 ft. wide, 13 ft. face, running N. 40° E., 26 ft. to face and portal of tunnel, 4x6 ft. in size, runs N. 40° E., 35 ft. to face
Value \$725
- No. 1 The discovery cut of the Novo No. 32 lode, the face of which being the discovery point is on the center line 300 ft. from the west end center; 4 ft. wide, 10 ft. face, running North 32 ft. to face.
Value \$150
- No. 2 An open cut, the mouth of which bears East 10 ft. from a point on line 4-1 N. 52° 53' E., 655.2 ft. from Cor. No. 4 of the Novo No. 32 lode; 12 ft. wide, 12 ft. face, running East 15 ft. to face. In bottom of open cut is a shaft, 6x8 ft., 10 ft. deep
Value \$375
- No. 3 An open cut, the mouth of which bears from same point East 50 ft., 4 ft. wide, 8 ft. face, running North 8 ft. to face
Value \$30
- No. 1 The discovery cut of the Novo No. 33 lode, the face of which being the discovery point is on the center line, 496 ft. from south end center; 4 ft. wide, 12 ft. face running S. 8° W., 18 ft. to face and portal of tunnel, 4x6 ft. in size, runs S. 8° W., 28 ft. to breast
Value \$520

OTHER CORNER DESCRIPTIONS

Sur. No. 4165 - Novo No. 24 lode:- Cor. No. 3 is a granite rock 6x8 ins., 9 ins. above; Cor. No. 4 is a diorite rock, both firmly set and properly marked. I check line 3-4 as of record. Detroit No. 3 lode:- Cor. No. 2, Cor. No. 3 are described in this record; Cor. No. 4 is a rock firmly set and marked as described in the record.

Sur. No. 4167 - Detroit No. 26 lode:- Cor. No. 1 and Cor. No. 2 are rocks, firmly set and marked as described in the record. I find lines 4-1 of the Detroit No. 24 and 1-2 of the Detroit No. 26 lode to be as given in the record.

I find the closing corner of secs. 11 and 14 to be S. 0° 17' E. 400.6 ft. from the Cor. of Secs. 12 and 13, and N. 0° 23' E. 2216.8 ft. from the W $\frac{1}{4}$ Sec. Cor. of Sec. 13; consequently the N $\frac{1}{2}$ of the west boundary of Sec. 13 is N. 0° 17' E. 2617.4 ft., the closing corner of secs. 11 and 14 being to the east thereof.

UNITED STATES
DEPARTMENT OF THE INTERIOR
GENERAL LAND OFFICE

FINAL OATHS FOR SURVEYS

LIST OF NAMES

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

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 the NOVO NO. 31, NOVO NO. 32 and NOVO NO. 33 lodes

and showing the respective capacities in which they acted.

- Gilbert Carbajal....., *Chainman.*
-, *Chainman.*
-, *Arman.*
-, *Flagman.*

FINAL OATHS OF ASSISTANTS

We, Gilbert Carbajal

and, 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 NO. 31, NOVO NO. 32 and NOVO NO. 33 lodes

represented in the foregoing field notes as having been surveyed by said mineral surveyor and under his direction; and that said survey has been in all respects, to the best of our knowledge and belief, faithfully and correctly executed, and the corner and boundary monuments established according to law and the instructions furnished by the Office Cadastral Engineer, at Phoenix, Arizona.

- Gilbert Carbajal....., *Chainman.*
-, *Chainman.*
-, *Arman.*
-, *Flagman.*

Subscribed and sworn to by the above-named persons before me this 31st

day of January, 1944.

Wsd Mueschen

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

My commission expires Feb. 3, 1945.

UNITED STATES
DEPARTMENT OF THE INTERIOR
GENERAL LAND OFFICE

FINAL OATH OF MINERAL SURVEYOR

I, Ralph L. Motz, Mineral Surveyor,
do solemnly swear that, in pursuance of instructions received from the Office Cadastral
Engineer, at Phoenix, Arizona, dated May 14, 1943,
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 NO. 31, NOVO NO. 32 and NOVO NO. 33 lodes,
situate in Greenlee Gold Mountain Mining District,
Greenlee County, Arizona, in Section 8
11, 13 and 14, Township No. 4 S., Range No. 29 E., G&SRM
and designated as Survey No. 4271, as represented
in the foregoing field notes, which accurately show the boundaries of said mining claim
as distinctly marked by monuments on the ground, and described in the attached copy of
the location certificate, which was received by me from the Office Cadastral Engineer
with said instructions, and that all corners of said survey have been established and
perpetuated in strict accordance with the law, official regulations and instructions
thereunder; and I do further solemnly swear that the foregoing are the true and original
field notes of said survey and my report therein, and that the labor expended and im-
provements made upon said mining claim by claimant or its
grantors are as therein fully stated, and that the character, extent, location, and
itemized value thereof are specified therein with particularity and full detail, and
that no portion of said labor or improvements so credited to this claim has been included
in the estimate of expenditures upon any other claim.

Ralph L. Motz
(Mineral Surveyor)

Subscribed and sworn to by the said Ralph L. Motz
Mineral Surveyor, before me W. H. Miescher, Notary Public

this 31st
day of January, 19 44

W. H. Miescher
Notary Public, in and for the County
of Cochise, State of Arizona.

My commission expires Feb. 3, 1945.

OFFICE CADASTRAL ENGINEER'S FINAL CERTIFICATE ON FIELD NOTES

United States
Department of the Interior
 GENERAL LAND OFFICE
 PUBLIC SURVEY OFFICE

Phoenix, Arizona

March 6, 1944

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 NO. 31, NOVO NO. 32 and NOVO NO. 33 lodes

situate in Greenlee Gold Mountain

Mining District Greenlee County Arizona

and 14,
 in Sections 11, 13, Township No. 4 S., Range No. 29 E. G&SRM, and
 designated as Survey No. 4271, has been correctly copied from the originals on file in

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

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

or its grantors,
 and that said improvements consist of 6 cuts, 2 tunnels and 1 shaft,
 total value \$1860.00

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 District Land Office at Phoenix, Arizona, is correct and in conformity with the foregoing Field Notes.

E. A. Thompson

Office Cadastral Engineer.

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

March 6, 19 44

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

....., known as the
NOVO NO. 31, NOVO NO. 32 and NOVO NO. 33 lodes

situate in Greenlee Gold Mountain mining district,
Greenlee County, Arizona

in Section s. 11, 13 & 14, Township No. 4 S., Range No. 29 E.
G. & S.R.M., designated as Survey No. 4271

executed by Ralph L. Motz, Mineral
Surveyor, January 26 to 29, 19 44, under my instructions dated
May 14, 19 43, have been critically examined and the necessary

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

E. A. Thompson
Office Cadastral Engineer.