

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

MINERAL SURVEY NO. 4419

Arizona Land District.

FIELD NOTES

Of The Survey Of The Mining Claim Of

Phelps Dodge Corporation

Known As The

After Thought Lode

Greenlee Gold Mountain Mining District,

Greenlee County, Arizona

Section 3, Township 4 South, Range 29 East

Surveyed under order dated September 27, 1956

by Robert Lenon  
Mineral Surveyor.

Claim located February 18, 1956

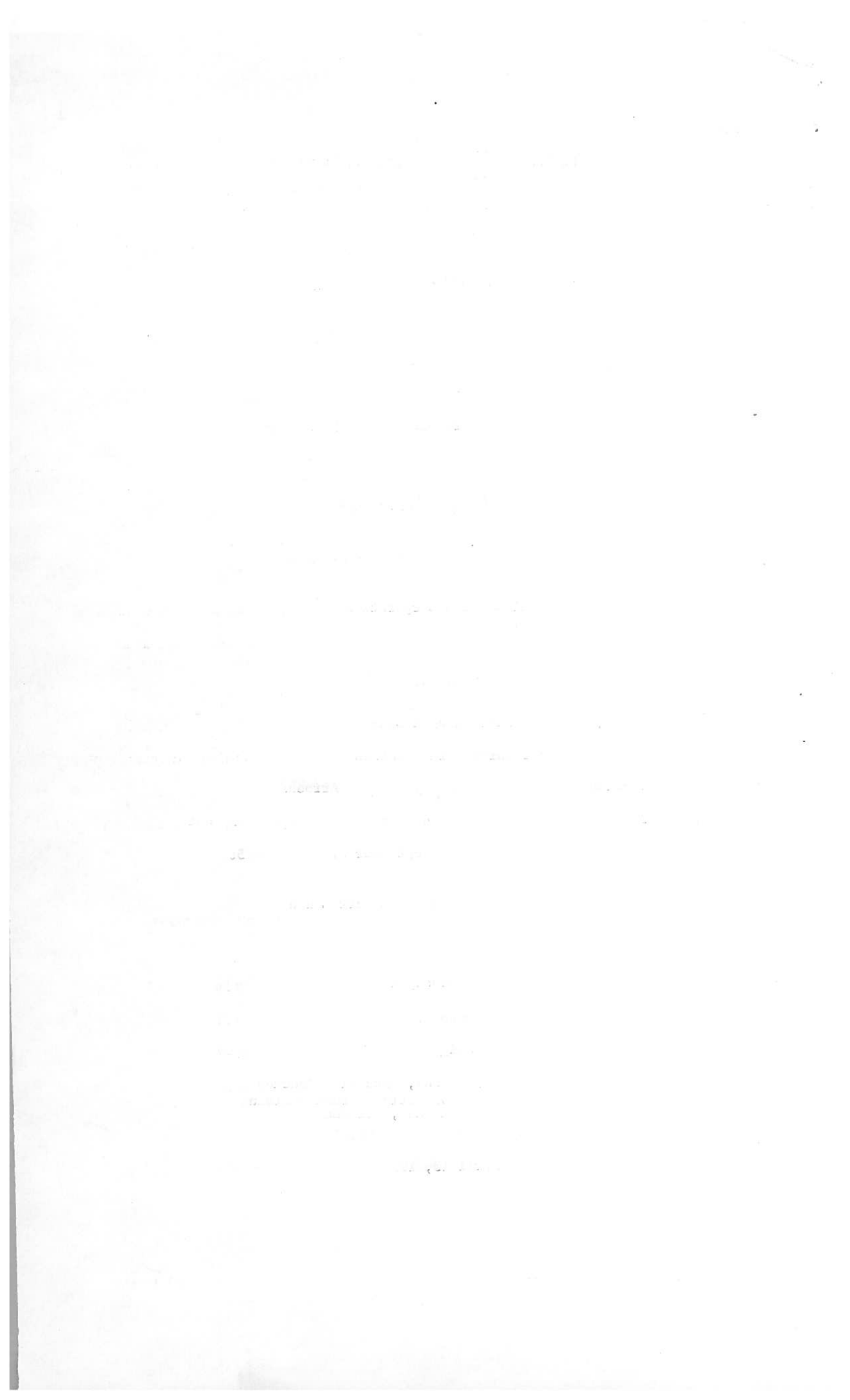
Survey commenced June 27, 1957

Survey completed July 2, 1957

Address of claimant c/o Evans, Kitchel & Jenckes  
807 Title & Trust Building  
Phoenix, Arizona

DATES OF AMENDED LOCATIONS

April 13, 1956



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Chains

This survey was made with a Bausch & Lomb Precise Transit No. 9259, with horizontal limb 5 1/2 ins. diam., having two single opposite verniers and full vertical circle 4 1/2 ins. diam., having two double opposite verniers, all verniers reading to one minute of arc. The instrument was in good condition at the time of the survey and all adjustments were in good order.

All azimuths in this record were determined by the method of double horizontal angles referred to the meridian determined by the following observations:

June 27th, 1957, at Phelps Dodge Triangulation Station No. 200, located in sec. 3, T. 4 S.; R. 29 E., Gila and Salt River Meridian, Greenlee County, Arizona, in the latitude 33° 06 1/2' N. and longitude 109° 20 1/2' W., I make a series of four altitude observations upon the sun for azimuth at approximately equal time intervals, two each with the telescope in direct and inverted positions, observing opposite limbs of the sun, and reading the horizontal angles from Phelps Dodge Triangulation Station No. 270, 2800 ft. northerly to the sun.

Mean time of observation; 105th meridian standard time

- (1) 9h 20m 00s AM
- (2) 9h 22m 00s AM

Declination of sun at mean time of observation

23° 19' N.

Mean observed vertical angles to sun's center

- (1) 50° 04 1/2'
- (2) 51° 20 1/2'

Mean horizontal angles, clockwise from reference point to sun's center

- (1) 92° 20 1/2'
- (2) 93° 14 1/2'

True bearing to reference point

N. 0° 07' E.

The lines were measured with a Lufkin steel tape, 300 ft. in length, graduated every foot, with the end feet graduated to tenths; and Lufkin steel tape, 100 ft. in length, graduated to feet, tenths, and hundredths; both 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 except for some of the ties to the older surveys; which were calculated.

The magnetic declination observed at each corner of the survey gave a uniform value of 12° 45' E.

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Feet

AFTER THOUGHT LODE

Beginning at cor. No. 1.

Set a copper-coated steel rod, stone mound alongside, 30 ins. long, 5/8 ins. diam., 27 ins. in the ground, with bronze cap mkd. AT-1-4419; from which

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Chains Feet	
	The S. $\frac{1}{2}$ sec. cor. of sec. 3, T. 4 S., R. 29 E., G. & S. R. B. & M., bears S. $64^{\circ} 48' W.$ , 1079.4 ft. dist., an iron pipe, $\frac{1}{2}$ ins. diam., firmly set with brass cap attached and properly mkd.
	A porphyry outcrop, 48x12 ins., 12 ins. high, bears N. $32^{\circ} 15' E.$ , 9.35 ft. dist., mkd. X-BR-1-4419.
	Thence N. $0^{\circ} 04' E.$
57.78	Cor. No. 2, Sur. No. 2907, War Eagle lode.
153.71	Intersect line 2-3, Sur. No. 1851, Mabel lode, at a point from which cor. No. 3 bears S. $37^{\circ} 11' E.$ , 178.14 ft. dist.
343.30	Cor. No. 2. Set a copper-coated steel rod, stone mound alongside, 30 ins. long, $\frac{5}{8}$ ins. diam., 27 ins. in the ground, with bronze cap mkd. AT-2-4419; from which A porphyry outcrop 48x48 ins., 12 ins. high, bears S. $73^{\circ} 28' E.$ , 18.32 ft. dist., mkd. X-BR-2-4419.
	Thence S. $89^{\circ} 56' E.$
125.00	Lode line, discovery point bears S. $0^{\circ} 04' W.$ , 165 ft. dist.
166.62	Intersect line 1-2, Sur. No. 2907, War Eagle lode, common to line 3-4, Sur. No. 4255-A Native Copper No. 3 lode (Els-Beth No. 3 lode, unsurveyed), at a point from which cor. No. 2 War Eagle, bears S. $30^{\circ} 20' W.$ , 330.58 ft. dist., and cor. No. 3, Native Copper No. 3, bears S. $30^{\circ} 20' W.$ , 122.88 ft. dist.
333.70	Cor. No. 3. Set a copper-coated steel rod, stone mound alongside, 30 ins. long, $\frac{5}{8}$ ins. diam., 27 ins. in the ground, with bronze cap mkd. AT-3-4419; from which A quartzite outcrop 36x24 ins., 12 ins. high, bears S. $73^{\circ} 40' W.$ , 19.5 ft. dist., mkd. X-BR-3-4419.
	Thence S. $0^{\circ} 04' W.$
178.08	Intersect line 2-3, Sur. No. 2709, White Tail lode, at a point from which cor. No. 2 bears S. $52^{\circ} 59' W.$ , 274.02 ft. dist.
285.16	Intersect line 2-3, Sur. No. 4255-A, Native Copper No. 3 lode, (Els-Beth No. 3 lode, unsurveyed), at a point from which cor. No. 3 bears N. $51^{\circ} 55' W.$ , 290.69 ft. dist.
343.30	Cor. No. 4. Set a copper-coated steel rod, stone mound alongside, 30 ins. long, $\frac{5}{8}$ ins. diam., 27 ins. in the ground, with bronze cap mkd. AT-4-4419; from which A porphyry outcrop 18x18 ins., 18 ins. high, bears N. $43^{\circ} 54' W.$ , 18.5 ft. dist., mkd. X-BR-4-4419.
	Thence N. $89^{\circ} 56' W.$
208.70	Lode line, discovery point bears N. $0^{\circ} 04' E.$ , 178.3 ft. dist.
218.60	Cor. No. 2, Sur. No. 2709, White Tail lode, falling on line 2-3, Sur. No. 1366, True Centre lode, at a point from which cor. No. 2 bears N. $31^{\circ} 21' W.$ , 13.95 ft. dist.

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Chains  
Feet  
241.60  
333.70

Intersect line 1-2, Sur. No. 1366, True Centre lode, common to line 3-4, Sur. No. 1851, Mabel lode, at a point from which cor. No. 2, True Centre lode, identical with cor. No. 3, Mabel lode, bears N. 52° 56' E., 19.72 ft. dist.  
Cor. No. 1 and place of beginning.

AREAS

	Acres
Total Area, After Thought lode:	2.630
Area in conflict with:	
Sur. No. 1366; True Centre lode	0.003
Sur. No. 1851, Mabel lode	0.203
Sur. No. 2709, White Tail lode	0.415
Sur. No. 2907, War Eagle lode	0.546
Sur. No. 2907, Ware Eagle lode, exclusive of its conflict with:	
Sur. No. 1851, Mabel lode	0.511
Sur. No. 4255-A, Native Copper No. 3 lode (Els-Beth #3 lode, unsurveyed)	0.953
Sur. No. 4255-A, Native Copper No. 3 lode (Els Beth #3), exclusive of its conflict with	
Sur. No. 2709, White Tail lode	0.867

LOCATION

This survey is located in the SE $\frac{1}{4}$ , sec. 3, T. 4 S., R. 29 E., G. & S. R. B. & M., Greenlee County, Arizona.  
This survey is wholly within the amended location as marked on the ground, Cor. No. 3 is identical with a corner of the location.

EXPENDITURES

No. 1 The discovery cut of the After Thought lode; the face of which being the discovery point is on the lode line 165 ft. from a point on line 2-3, 125 ft. from cor. No. 2; 11 ft. wide, runs N. 1° W., 30 ft. to 10 ft. face.  
Value, \$650.

OTHER IMPROVEMENTS

A cut, 5 ft. wide, the face of which bears S. 55° E., 130 ft. from cor. No. 2, runs N. 20° E., 15 ft. to 5 $\frac{1}{2}$  ft. face.  
Claimant unknown.

Mineral Survey No. 4419

Chains

OTHER CORNER DESCRIPTIONS AND SUPPLEMENTAL DATA

Sur. No. 1366 True Centre lode: Cor. No. 2 is a porphyry boulder, firmly set and properly mkd.; cors. Nos. 1 & 3 were not seen; line 1-2 is shown as approved.

Sur. No. 1851 Mabel lode: Cor. No. 3 is identical with cor. No. 2, Sur. No. 1366, True Center lode. Cor. No. 2 is in a rock slide and has been destroyed. The end center on line 2-3 was found. It is a mound of stone with no markings. Line 2-3 is shown to be N. 37° 11' W., instead of N. 37° 07' W. as approved.

Sur. No. 2709 White Tail lode: Cors. Nos. 2 & 3 are both 4x4 ins. posts, set in stone mounds. They are properly mkd. Line 2-3 was found to bear N. 52° 59' E. instead of N. 52° 53' E. as approved.

Sur. No. 2907 War Eagle lode: Cor. No. 2 has been destroyed. I reset it from the bearing rock. It is a copper-coated steel rod, stone mound alongside, 30 ins. long, 5/8 ins. diam., 27 ins. in the ground, with bronze cap mkd. WE-2-2907. Cor. No. 1 is a 4x6 ins. post, set in a mound of stone. Line 1-2 is shown approximately as approved.

Sur. No. 4255A: Cor. No. 3, identical with Cor. No. 3, Els-Beth lode (unsurveyed) is missing. Its position is determined from the record of Mineral Survey No. 4255A, and is re-monumented as the cor. of the Els-Beth No. 3 lode, with a copper coated steel rod, 30 ins. long, set 27 ins. in the ground, with brass cap mkd. EB-3-3.

The 1/2 cor. common to secs. 3 & 10, T. 4 S., R. 29 E. is an iron pipe, 3/4 ins. diam., firmly set in a stone mound, with brass cap attached, properly mkd.

FIELD ASSISTANTS

Frank Eastman  
Joe D. Alvarez  
Marlin Widger

Instrument  
Chain  
Chain

CORNER IMPROVEMENTS

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

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CERTIFICATE OF SURVEYOR

August 7, 1957

I, ROBERT LENON

Mineral Surveyor, hereby certify upon honor that in pursuance of an order received from the \_\_\_\_\_

OFFICE CADASTRAL ENGINEER, at PHOENIX, ARIZONA

dated SEPTEMBER 27, 1956, I have faithfully and correctly executed the survey of

the mining claim of PHELPS DODGE CORPORATION

known as the AFTER THOUGHT LODE  
(Lode, placer, or mill site)

situate in GREENLEE GOLD MOUNTAIN MINING DISTRICT, SEC. 3

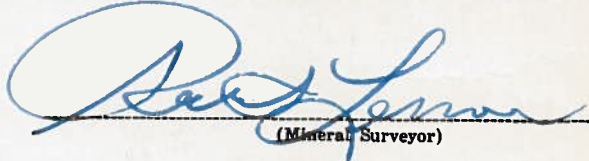
T. 4. S., R. 29 E., G. & S. R. Meridian, ARIZONA, and  
(State)

designated as Survey No. 4419, which is represented in the foregoing field notes as having been executed by me and under my direction, and that said survey has been made in strict conformity with said order, the Manual of Instructions for the Survey of the Public Lands of the United States, and in the specific manner described in the foregoing field notes, and I do further certify that the labor expended and improvements made

upon or for the benefit of the lode location(s) embraced in the said mining claim by  
(Lode or placer)

claimant(s) or its grantors are fully stated in my report therein, and that the character, extent, location, and itemized value thereof are specified therein with particularity and full detail, and that no portion of, or interest in, said labor and improvements so credited to this claim has been included in the estimate of expenditures upon any other claim.

Patagonia, Arizona  
(Place)

  
(Mineral Surveyor)

CERTIFICATE OF APPROVAL

Bureau of Land Management--Survey Office  
(Office)


Phoenix, Arizona October 29, 1958  
(Place) (Date)

The foregoing field notes of mineral survey No. 4419, in Section 3

, T. 4 South, R. 29 East, GSR Meridian,

Arizona, executed by Robert Lenon, Mineral Surveyor,  
(State)

under order dated September 27, 1956, having been critically examined and the necessary corrections made prior to their certification by the surveyor, the field notes and the survey therein described are hereby approved.

  
Lester S. Mann  
Office Cadastral Engineer

(Title)

CERTIFICATE OF TRANSCRIPT

I CERTIFY that the foregoing transcript of field notes of the above described mineral survey No. \_\_\_\_\_ is a true copy of the original field notes.

(Title)

