

Form 3860-10
(October 1979)
(formerly 3400-11)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

Mineral Survey number

4856

State

Arizona

Land District

Arizona

FIELD NOTES

Of the Survey of the Mining Claim of *(name and address of Claimant)*

Lynn Sheppard
P.O. Box 2625
Globe, Arizona 85502-2625

Known as the *(name of group, if any)*

Pioneer Mine

CONSISTING OF LOCATIONS NAMED AND LOCATED AS FOLLOWS

NAME OF LOCATION	DATE	
	LOCATED	AMENDED
DELINQUENT	06/02/03	02/23/07
CHALLENGE	03/06/08	
East Pioneer	11/06/13	02/01/68

Mining district Pioneer			County Gila	
Section 29	Township 2 S.,	Range 15 E.,	Meridian Gila and Salt River	Survey under order dated November 16, 1983
Survey commenced April 12, 1984		Survey completed April 17, 1984	Name of Mineral Surveyor O.T. Smith	

FEET

This survey was made with a Kern optical scale Theodolite, Model DKM2 No. 249491, having horizontal circle 2.95 in. diam. and vertical circle 2.76 in. diam. The circles are graduated in degree and minute increments. An optical micrometer, adjusted to the vertical and horizontal circles permits the reading of angles direct to 1 second accuracy and estimating to 0.1 second accuracy. 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 horizontal angles right referred to the meridian determined by the following observation:

April 12, 1984 at Cor. No. 2 of the DELINQUENT lode in latitude $33^{\circ} 14' 06''$ N., and longitude $110^{\circ} 50' 11''$ W., elevation 4620 ft. above sea level, and temperature 80° F., make a series of six altitude observations on the sun for azimuth at approximately equal time intervals, three each with the telescope in direct and reversed positions, observing opposite limbs of the sun, and reading the horizontal angle from a reference point about 190 feet northward SE. to the sun.

Mean time of observation, 105th
meridian standard time = $4^{\text{h}} 31^{\text{m}}$ p.m.
Declination of sun at mean time
of observation = $9^{\circ} 00' 20''$ N.
Mean observed vertical angle
to sun's center = $28^{\circ} 26' 04''$
Mean horizontal angle from ref-
erence point to sun's center = $309^{\circ} 35' 09''$
True bearing to reference
point = N. $47^{\circ} 44'$ W.

The tie lines and corner distances were measured with a Topcon Electronic Distance Meter, Model DM-C2 No. 911267, all other distances were measured with a Lufkin steel tape 300 feet in length graduated every foot for 300 feet, with the first and last foot graduated in tenths and hundredths and a steel tape 50 feet in length graduated in feet, tenths and hundredths; both tapes were compared with a Lufkin Ranger standardized tape at the time of beginning the survey, and found to be correct.

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

The magnetic declination observed at each corner of the survey gave a uniform value of $12^{\circ} 45'$ E.

Mineral Survey No. 4856

DELINQUENT LODE

At Cor. No. 1 of the DELINQUENT lode, identical with Cor. No. 1, M.S. No. 370 Great Republic lode.

FEET	
	<p>Replaced the 4 x 4 in. wood post for Cor. No. 1, M.S. No. 370 Great Republic lode, with an iron pipe, 18 ins. long, 3/4 ins. diam., set 11 ins. in the ground, in a concrete and rock base, with a brass cap firmly secure to the iron pipe, mkd. D-1-4856 GR-1-370; from which</p> <p>The $\frac{1}{4}$ sec. cor. of secs. 20 and 29, T. 2 S., R. 15 E., G. & S. R. M., bears N. $46^{\circ}20'10''$ E., 966.34 ft. dist.; monumented with an iron post, 3/4 in. diam., 10 ins. above ground, firmly set, with brass cap properly mkd.</p> <p>A quartzite rock in place, 12 x 26 ins., level with the ground, bears N. $36^{\circ}34'$ E., 10.28 ft. dist., mkd. X-BR-D-1-4856 and GR-1-370.</p> <p>A quartzite rock in place, 16 x 17 ins., 6 ins. above ground, bears N. $9^{\circ}04'$ W., 9.91 ft. dist., mkd. X-BR-D-1-4856 and GR-1-370.</p> <p>Thence S. $47^{\circ}44'$ E.</p>
91.00	Lode line; discovery point bears S. $36^{\circ}01'30''$ W., 118.0 ft. dist.
190.25	<p>Cor. No. 2.</p> <p>Set an iron pipe, 18 ins. long, 3/4 in. diam., 12 ins. in the ground, in a concrete and rock base, with a brass cap firmly secured to the iron pipe, mkd. D-2-4856, from which</p> <p>A copper plate bears N. $22^{\circ}11'$ E., 5.98 ft. dist., nailed in a blaze, 22 ins. above ground, on a mesquite, 6 ins. diam. Copper plate mkd. X-BT-D-2-4856 and S. $22^{\circ}11'$ W., 5.98 ft. to cor.</p> <p>A copper plate bears N. $52^{\circ}52'$ W., 23.96 ft. dist., nailed in a blaze, 14 ins. above ground, on a mesquite, 7 ins. diam. Copper plate mkd. X-BT-D-2-4856 and S. $52^{\circ}52'$ E., 23.96 ft. to cor.</p> <p>Thence S. $29^{\circ}44'40''$ W.</p>
151	Center of road, 15 ft. wide, bears S. $52^{\circ}30'$ E. and N. $52^{\circ}30'$ W.
172.13	Cor. No. 4 CHALLENGE lode of this survey.
240	Center of Crow Canyon, 12 ft. wide, course S. 15° E.
258	Center of road, 15 ft. wide, bears N. 15° W. and S. 2° W.
870	Center of road, 15 ft. wide, bears N. 45° W. and S. 20° E.
1520.21	Cor. No. 3, on line 3-4 CHALLENGE lode of this survey.

FEET	
	<p>Set an iron pipe, 18 ins. long, 3/4 in. diam., 11 ins. in the ground, in a concrete and rock base, with a brass cap firmly secured to the iron pipe, mkd. D-3-4856; from which</p> <p>A copper plate bears S. 80°06' E., 15.06 ft. dist., nailed in a blaze, 39 ins. above ground, on an oak, 9 ins. diam. Copper plate mkd. X-BT-D-3-4856, and N. 80°06' W., 15.06 ft. to cor.</p> <p>Thence N. 47°44' W.</p>
266.60	Lode line; discovery point bears N. 36°01'30" E., 1374.9 ft. dist.
357.60	<p>Cor. No. 4, identical with Cor. No. 2, M.S. No. 370 Great Republic lode.</p> <p>Replaced the 4 x 4 in. wood post for Cor. No. 2, M.S. No. 370 Great Republic lode with an iron pipe, 18 ins. long, 3/4 in. diam., set 15 ins. in the ground, in a concrete and rock base, with a brass cap firmly secure to the iron pipe, mkd. D-4-4856; from which</p> <p>A quartzite rock in place 16 x 20 ins., 10 ins. above ground, bears N. 24°37' E., 12 ft. dist., mkd. X-BR-D-4-4856 and GR-2-370.</p> <p>Thence N. 36°01'30" E.</p>
810	Center of road, 12 ft. wide, bears N. 10°30' W. and S. 10°30' E.
980	Center of road, 12 ft. wide, bears N. 59° W. and S. 59° E.
1363	Center of creek, 12 ft. wide course S. 23° E.
1492.90	Cor. No. 1, and place of beginning.
	<p style="text-align: center;">CHALLENGE LODE</p> <p>Beginning at Cor. No. 1 of the CHALLENGE lode, identical with Cor. No. 1 of the East Pioneer lode of this survey.</p> <p>Set an iron pipe, 18 ins. long, 3/4 in. diam., 13 ins. in the ground, in a concrete and rock base, with a brass cap firmly secured to the iron pipe, mkd. C-1-4856 and EP-1-4856; from which</p> <p>The 1/2 sec. cor. of secs. 20 and 29, T. 2 S., R. 15 E., G. & S. R. M., bears N. 13°58'13" E., 1288.69 ft. dist.</p> <p>A quartzite boulder in place, 2 x 4 ft., 2 ft. above ground, bears S. 72°54' E., 7.76 ft. dist., mkd. X-BR-C-1-EP-1-4856.</p>

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FEET	
	<p>A quartzite boulder in place, 2 x 3 ft., 3½ ft. above ground, bears S. 6° E., 7.22 ft. dist., mkd. X-BR-C-1-EP-1-4856.</p> <p>Thence S. 29°44'40" W.</p>
510	Center of road, 12 ft. wide, bears N. 16°30' E. and S. 16°30' W.
690	Center of Pioneer Creek, 15 ft. wide, course S. 16°30' W.
785	Center of road, 15 ft. wide, bears N. 68° E. and S. 68° W.
860	Center of road, 15 ft. wide, bears N. 7°30' E. and S. 6° W.
920	Fence line, barb wire, bears N. 5°30' E. and S. 5°30' W.
1105	Fence line, barb wire, bears N. 9°20' E. and S. 2° E.
1500.00	<p>Cor. No. 2, identical with Cor. No. 4 of East Pioneer lode of this survey.</p> <p>Set an iron pipe, 18 ins. long, ¾ in. diam., 12 ins. in the ground, in a concrete and rock base, with a brass cap firmly secure to the iron pipe, mkd. C-2-EP-4-4856; from which</p> <p>A diabase rock, 6 x 7 ins., 12 ins. above ground, bears S. 86°18' E., 4.08 ft. dist., mkd. cross on top, PS on N. face, 1 E P on E. face, 1 J on S. face.</p> <p>Thence N. 47°23' W.</p>
55	Center of road, 15 ft. wide, bears N. 16° E. and S. 16° W.
300.00	Lode line; discovery point bears N. 29°44'40" E., 1500.0 ft. dist.
451.85	<p>Cor. No. 3.</p> <p>Set an iron pipe, 18 ins. long, ¾ in. diam., 10½ ins. in the ground, in a concrete and rock base, with a brass cap firmly secure to the iron pipe, mkd., C-3-4856; from which</p> <p>A copper plate bears S. 1°37' E., 41.28 ft. dist., nailed in a blaze, 2 ft. above ground, on a mesquite, 7 ins. diam. Copper plate mkd. X-BT-C-3-4856 and N. 1°37' W., 41.28 ft. to cor.</p> <p>Thence N. 29°44'40" E.</p>
151.92	Cor. No. 3 DELINQUENT lode of this survey.
790	Center of road, 12 ft. wide, bears N. 25°30' W. and S. 25°30' E.
1395	Center of road, 15 ft. wide, bears S. 2° W. and N. 12°30' W.

<p>F E E T</p> <p>1432</p>	<p>Center of creek, 15 ft. wide, course S. 2° W.</p>
<p>1500.00</p>	<p>Cor. No. 4, on line 2-3 DELINQUENT lode of this survey.</p> <p>Set an iron pipe, 18 ins. long, 3/4 in. diam., 11 ins. in the ground, in a concrete and rock base, with a brass cap firmly secured to the iron pipe, mkd. C-4-4856.</p> <p>No local bearing objects or bearing trees available.</p> <p style="text-align: center;">Thence S. 47°23' E.</p>
<p>151.85</p>	<p>Lode line and discovery point.</p>
<p>201.85</p>	<p>A 2 x 2 in. wood post, 4 ft. above ground, in a mound of rock, for discovery monument, mkd. witness monument.</p>
<p>276</p>	<p>Center of road, 15 ft. wide, bears N. 56° E. and S. 56° W.</p>
<p>328</p>	<p>Center of Pioneer Creek, 20 ft. wide course S. 33°30' W.</p>
<p>402</p>	<p>Center of road, 20 ft. wide, bears S. 46° W. and N. 46° E.</p>
<p>451.85</p>	<p>Cor. No. 1, and point of beginning.</p>
<p>EAST PIONEER</p>	
<p>Beginning at Cor. No. 1 of the East Pioneer lode, identical with Cor. No. 1 of the CHALLENGE lode of this survey.</p> <p style="text-align: center;">Thence S. 47°23' E.</p>	
<p>300.00</p>	<p>Lode line; discovery point bears S. 29°44'40" W., 750.0 ft. dist.</p>
<p>600.00</p>	<p>Cor. No. 2</p> <p>A 3/4 in. iron pipe with brass cap 24 ins. above ground, in rock monument, mkd. U. S. G. L. O. 1946 S 29 T 2 S R 15 E-LB 3-E P 4. I stamp out the 4 and add 2-4856; from which</p> <p style="text-align: center;">A quartzite rock in place, 12 x 12 in., level with the ground, bears N. 0°02' E., 25.65 ft. dist., mkd. X-BR-EP-2-4856.</p> <p style="text-align: center;">Thence S. 29°44'40" W.</p>
<p>1300</p>	<p>Center of Pioneer Creek, 20 ft. wide, course S. 35° E.</p>
<p>1420</p>	<p>Center of road, 20 ft. wide, bears N. 1° W. and S. 1° E.</p>

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FEET									
1500.00	<p>Cor. No. 3.</p> <p>Set an iron pipe, 18 ins. long, 3/4 in. diam., 12 ins. in the ground, in a concrete and rock base, with a brass cap firmly secured to the iron pipe, mkd. EP-3-4856; from which</p> <p style="padding-left: 40px;">A diabase rock in place, 16 x 24 ins., 6 ins. above ground, bears S. 13°36' E., 13.74 ft. dist., mkd. X-BR-EP-3-4856.</p> <p style="padding-left: 80px;">Thence N. 47°23' W.</p>								
300.00	Lode line; discovery point bears N. 29°44'40" E., 750.0 ft. dist.								
528	Fence line, bears N. 81°30' E. and S. 81°30' W.								
600.00	<p>Cor. No. 4, identical with Cor. No. 2 of the CHALLENGE lode of this survey.</p> <p style="padding-left: 80px;">Thence N. 29°44'40" E.</p>								
395	Fence line, barb wire, bears N. 9°20' E. and S. 2° E.								
580	Fence line, barb wire, bears N. 5°30' E. and S. 5°30' W.								
640	Center of road, 15 ft. wide, bears N. 7°30' E. and S. 6° W.								
715	Center of road, 15 ft. wide, bears N. 68° E. and S. 68° W.								
810	Center of Pioneer Creek, 15 ft. wide, course S. 16°30' W.								
990	Center of road, 12 ft. wide, bears N. 16°30' E. and S. 16°30' W.								
1500.00	Cor. No. 1, and the place of beginning.								
Mineral Survey No. 4856									
<table border="0" style="width: 100%;"> <tr> <td style="text-align: center;">AREAS</td> <td style="text-align: center;">Acres</td> </tr> <tr> <td>Total area, DELINQUENT lode-----</td> <td style="text-align: right;">9,332</td> </tr> <tr> <td>Total area, CHALLENGE lode-----</td> <td style="text-align: right;">15.169</td> </tr> <tr> <td>Total area, East Pioneer lode--</td> <td style="text-align: right;">20.142</td> </tr> </table>		AREAS	Acres	Total area, DELINQUENT lode-----	9,332	Total area, CHALLENGE lode-----	15.169	Total area, East Pioneer lode--	20.142
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Total area, DELINQUENT lode-----	9,332								
Total area, CHALLENGE lode-----	15.169								
Total area, East Pioneer lode--	20.142								
<p>LOCATION</p> <p>This survey is located in sec. 29, T. 2 S., R. 15 E., G. & S. R. M., Gila County, Arizona.</p> <p>The survey of the DELINQUENT, CHALLENGE, and East Pioneer lodes is identical with the respective location or amended location as marked on the ground.</p>									

FEET	EXPENDITURES
	<p>The improvements and 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 are as follows:</p>
No. 1	<p>The discovery point of the DELINQUENT lode is on the lode line 118 ft. from line 1-2, 91 ft. from Cor. No. 1. No Value.</p>
No. 2	<p>A cut and shaft, the center of which bears S. 60° W., 121 ft. from Cor. No. 2 DELINQUENT lode; 5 ft. wide, 6 ft. face; running N. 40° E., 20 ft. to center of shaft, 4 x 5 ft., 75 ft. deep. Value \$1,125.</p>
No. 3	<p>A shaft, the center of which bears S. 64° W., 71 ft. from Cor. No. 2 DELINQUENT lode; 5 x 5 ft., 100 ft. deep. Value \$1,500.</p>
	<p>An interest in common improvement described as follows:</p>
No. 1	<p>A discovery cut and trench of the CHALLENGE lode, the center of which being the discovery point is on the line 4-1; S. 47° 23' E., 151.85 ft. from Cor. No. 4; 35 ft. wide, 20 to 75 ft. deep and face, running S. 32° 10' W., 235 ft. and N. 32° 10' E., 290 ft. Value \$78,600. Value of one-third interest, \$26,200.</p> <p>This improvement is in course of construction for the development of the CHALLENGE and DELINQUENT lodes of this survey and the CALIFORNIA lode, unsurveyed, which are all contiguous lode claims owned in common within the range of benefit of said trench and open cut.</p> <p>Five hundred dollars or over has been expended in this improvement in such a manner as tends to the development of each lode of this survey subsequent to its location and to the time since which common ownership and contiguity have prevailed; therefore an undivided one-third interest in its value is hereby credited to each of said lodes and a like interest apportioned to each of the other stated lodes of the common group.</p> <p>Except as above stated, no portion of or interest in this improvement has been credited heretofore as patent expenditure to any lode claim.</p>
No. 2	<p>A shaft, the center of which bears S. 18° 15' W., 364 ft. from Cor. No. 4 CHALLENGE lode; 8 x 12 ft., 420 ft. deep, partly timbered and concrete. Value \$6,300.</p>
No. 3	<p>A tunnel 8 x 10 ft. in size, the portal of which</p>

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FEET	
No. 1	<p>bears S. 53°30' W., 282 ft. from Cor. No. 1 CHALLENGE lode and runs S. 65°30' E., 25 ft. to breast, all concrete top, bottom, sides and breast, with wood door, used for powder magazine. Value \$750.</p>
No. 1	<p>The discovery point of the East Pioneer lode is on the lode line 750 ft. from line 1-2, 300 ft. from Cor. No. 1. No value.</p>
No. 2	<p>A tunnel 4 x 5 ft. in size, the portal of which bears N. 45°10' E., 505 ft. from Cor. No. 4 East Pioneer lode and runs S. 75° E., 25 ft. to breast. Value \$500.</p>
No. 3	<p>An open cut, the face of which bears N. 50° E., 557 ft. from Cor. No. 4 East Pioneer lode, 30 ft. wide, 55 ft. face, running N. 3°50' W., 140 ft. to face. Value \$30,500.</p>
OTHER IMPROVEMENTS	
<p>A dirt reservoir, 35 x 75 ft., 6 ft. deep, the north cor., of which bears S. 21° W., 438 ft. from Cor. No. 1 DELINQUENT lode; the long sides bear S. 42°10' E. Claimant herein.</p>	
<p>A round metal water reservoir, 20 ft. diam., 5½ ft. high, the center of which bears S. 20°25' W., 414 ft. from Cor. No. 4 CHALLENGE lode. Claimant herein.</p>	
<p>A round metal water reservoir, 10 ft. diam., 8 ft. high, the center of which bears S. 14° W., 418 ft. from Cor. No. 4 CHALLENGE lode. Claimant herein.</p>	
<p>A frame and stucco bunkhouse, the south cor. of which bears N. 41°57' E., 920 ft. from Cor. No. 3 CHALLENGE lode; 34 x 36 ft. in size; the long sides bears N. 17°20' E. Claimant herein.</p>	
<p>A metal storage shed, the south cor. of which bears N. 44°25' E., 814 ft. from Cor. No. 3 CHALLENGE lode; 23 x 30 ft. in size; the long sides bear N. 74°30' W. Claimant herein.</p>	
<p>A corrugated iron Mill building now used for storage and barn, the south cor. of which bears N. 49°45' E., 754 ft. from Cor. No. 3 CHALLENGE lode; 46 x 50 ft. in size; the long sides bear N. 82° W. Claimant herein.</p>	
OTHER CORNER DESCRIPTIONS AND SUPPLEMENTAL DATA	
<p>M. S. No. 370 Great Republic lode: Cors. Nos. 1 and 2 are monumented with 4 x 4 in. wood</p>	

FEET	<p>post in rock monument, firmly set and properly mkd. nearly rotted in two at ground level. Set an iron pipe with brass cap properly mkd. in place of wood posts. Line 1-2 was found to be S. 36°01'30" W., 1492.90 ft., instead of S. 36°05' W., 1493.00 as approved.</p>								
	<p>MEMORANDUM</p> <p>To conform with the cor. monuments in the field, and not have gaps. Line 1-2 of the DELINQUENT is 190.25 ft. instead of 183 ft. and line 3-4 is 357.6 ft. instead of 361.4 shown in the location notice. Other lines of the survey were found to be very nearly correct.</p>								
	<p>FIELD ASSISTANTS</p> <table style="width: 100%; border: none;"> <thead> <tr> <th style="text-align: left; padding: 5px;">Name</th> <th style="text-align: left; padding: 5px;">Capacity</th> </tr> </thead> <tbody> <tr> <td style="padding: 5px;">Marvin H. Davis</td> <td style="padding: 5px;">Transitman</td> </tr> <tr> <td style="padding: 5px;">Loren E. Bunney</td> <td style="padding: 5px;">Chairman</td> </tr> <tr> <td style="padding: 5px;">Mark Bunney</td> <td style="padding: 5px;">Chairman</td> </tr> </tbody> </table>	Name	Capacity	Marvin H. Davis	Transitman	Loren E. Bunney	Chairman	Mark Bunney	Chairman
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FEET

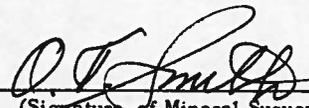
CERTIFICATE OF SURVEYOR

Name of Mineral Surveyor O. T. Smith	Date May 24, 1984
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I HEREBY CERTIFY That in pursuance of an order received from the Department of the Interior, Bureau of Land Management, at Phoenix, Arizona, dated November 16, 1983, I have carefully executed the survey of the claim of Lynn Sheppard, known as the (lode, placer, or mill site) DELINQUENT, CHALLENGE & East Pioneer lodes, situated in Sec. 29, Township 2 S., Range 15 E., Gila and Salt River Meridian, in the State of Arizona.

This survey, designated as number 4856, has been executed by me and under my direction and has been made in strict conformity with said order, the Manual of Instructions for the Survey of Public Lands of the United States, and in specific manner described in the foregoing field notes.

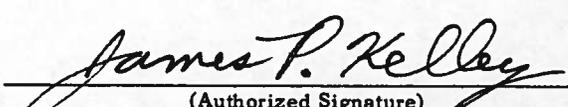
I FURTHER CERTIFY That the labor expended and improvements made upon and for the benefit of the (lode or placer) DELINQUENT, CHALLENGE & East Pioneer lodes location(s) embraced in the said mining claim by claimant(s) or grantors are fully stated in my report. The character, extent, location, and itemized value are specified in full detail. 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.

Globe, Arizona (Location)	 (Signature of Mineral Surveyor)
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CERTIFICATE OF APPROVAL

Office Arizona State Office
Location Phoenix, Arizona
Date November 18, 1985

The foregoing field notes of mineral survey number 4856, in section 29, Range 15 E., Gila and Salt River Meridian, in the State of Arizona, executed by O.T. Smith, Mineral Surveyor, under order dated November 16, 1983, 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.

 (Authorized Signature)	Chief Cadastral Surveyor of Arizona (Title)
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CERTIFICATE OF TRANSCRIPT

I HEREBY CERTIFY That the foregoing transcript of field notes of the above-described mineral survey number 4856 is a true copy of the original field notes.

 (Authorized Signature)	Chief Cadastral Surveyor of Arizona (Title)
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Title 18, U.S.C. section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious, or fraudulent statements or representations as to any matter within its jurisdiction.

