

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT



MINERAL SURVEY NO. 4357

Arizona Land District.

FIELD NOTES

Of The Survey Of The Mining Claim Of

Kathryn O. McHugh

Known As The

Bushmaster

Blue Tanks Mining District,

Yavapai County, Arizona

Sections 23 and 24, Township 8 North, Range 4 West

Surveyed under order dated April 23, 1951

by *Richard L. Merritt*  
Richard L. Merritt, Mineral Surveyor.

Claim located July 24, 1946

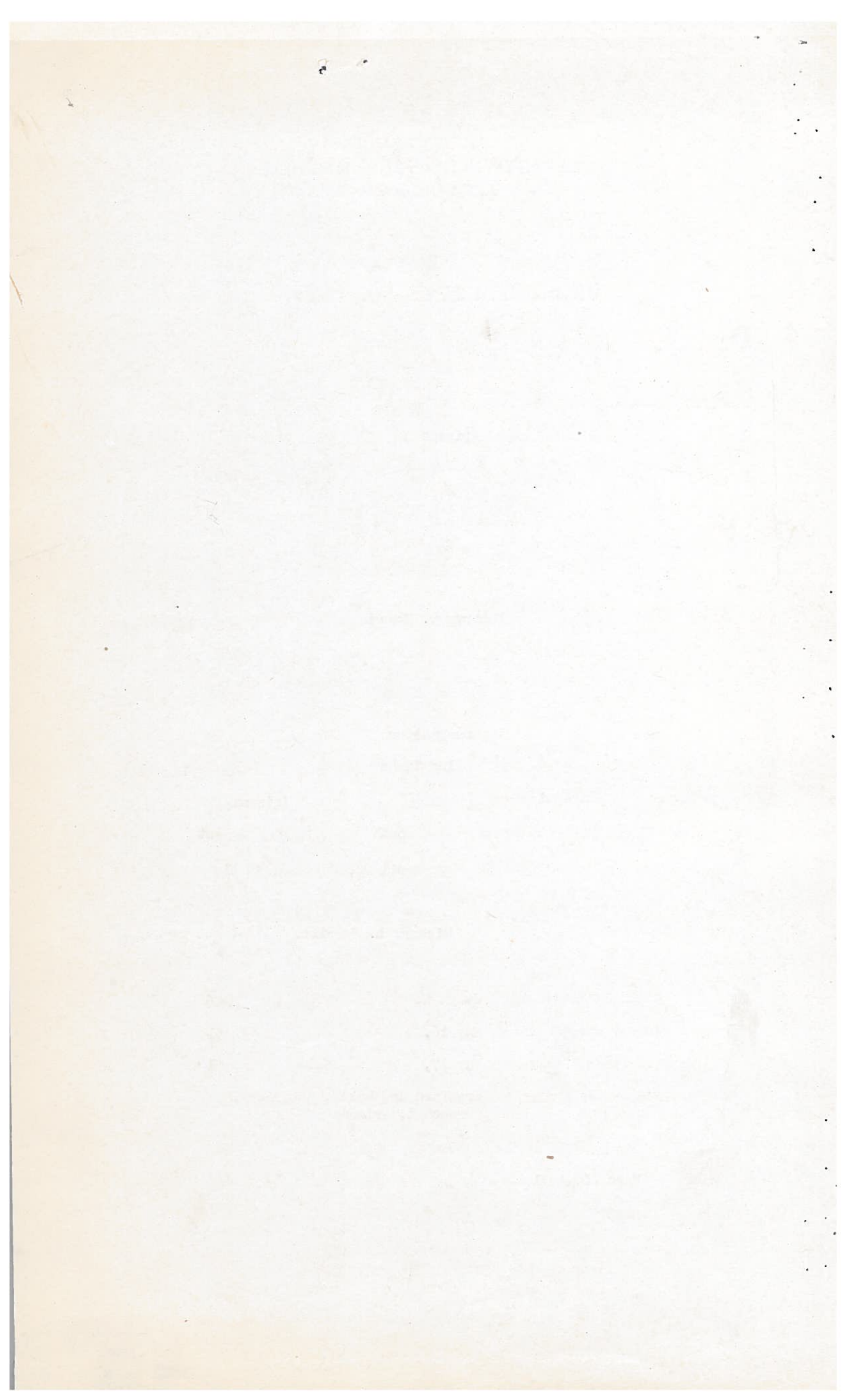
Survey commenced May 16, 1951

Survey completed May 17, 1951

Address of claimant Crawford and Baker, Attorneys,  
Prescott, Arizona

DATES OF AMENDED LOCATIONS

March 6, 1951



This survey was made with a Berger Transit No. 17503 with horizon-limb 5-1/8 ins. diam., having two double opposite verniers, and full vertical circle 5 ins. diam., having one double vernier; the verniers read to one minute of arc; a prismatic eyepiece with colored glass was attached to the eye piece of the transit for making direct observations upon the sun. 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 deflection angles referred to meridian determined by a P.M. altitude observation on the sun, the details of which observation are shown in the calculation sheets submitted for examination. Details of meridian altitude observation on the sun for latitude and a meridian observation at noon for time are submitted for examination.

The lines were measured with a Lufkin steel tape 500 feet in length, graduated every foot, the first foot being graduated to tenths and hundredths.

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

The magnetic variation observed at each corner of this survey gave a uniform value of 15° 00' E.

Feet

## BUSHMASTER LODGE

At cor. No. 1 of the Bushmaster Lode

16 ins.

Set a granite stone, 26 x 10 x 8 ins., in the ground, surrounded by a mound of stones, mkd. X-B-1-4357; from which

The 1/4 cor. bet. secs. 23 and 24, T.8 N., R.4 W., G. and S.R. B. and M. bears S.29°49'W., 633.81 ft. dist.; an iron post, 3/4 ins. diam., 14 ins. above ground, firmly set, with a brass cap mkd. 1/4 S23, S24.

No other bearings available.

Thence S.55°03'E.

300.0 Lode line; discovery shaft bears S.34°57'W., 740 ft. dist.

383.0 Center of road, bears N.40°E. and S.40°W.

600.0 Cor. No. 2

Set a porphyry stone, 30 x 12 x 8 ins., 16 ins. in the ground, surrounded by a mound of stones mkd. X-B-2-4357.

A point on granite rock in place 4 x 5 x 3 ft. above ground, bears N.57°47'E., 77.2 ft. dist., mkd. XBR-B-2-4357.

No other bearings available.

Thence S.34°57'W.

1499.01 Cor. No. 3 -

Set a granite stone, 26 x 14 x 8 ins., 16 ins. in the ground, surrounded by a mound of stones mkd. X-B-3-4357.

No bearing objects available.

Feet  
 300.0 Thence N.55°03'W.  
 Lode line; discovery shaft bears N.34°57'E., 759.01 ft.  
 458.0 Center of road, S.73°30'W., and N.73°30'E.  
 600.0 Cor. No. 4  
 Set a granite stone, 26 x 17 x 8 ins., 16 ins. in the ground,  
 surrounded by a mound of stones mkd. X-B-4-4357.  
 No bearings available.  
 Thence N.34°57'E.  
 1499.01 Cor. No. 1, and place of beginning.

## Survey No. 4357

## AREAS

Total area, Bushmaster lode

Acres  
20.648

## LOCATION

This survey is located in the NE 1/4 and the SE 1/4 sec. 23,  
 and the NW 1/4 and SW 1/4 sec. 24, T.8 N., R.4 W., Gila and Salt  
 River Base and Meridian.

The survey of the Bushmaster lode is identical with the amended  
 location notice as marked on the ground. The location monuments,  
 all mounds of stones 3 ft. base by 3 ft., were rebuilt alongside  
 at the four corners of the claim.

## EXPENDITURES

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:

- No. 1 The discovery shaft of the Bushmaster lode, the center of which  
 being the discovery point, is on the lode line 740 ft. from a  
 point on line 1-2, 300 ft. from cor. No. 1, 4 x 6 ft. by 6 ft. deep  
 Value, \$100.
- No. 2 A shaft, the center of the southeast side of which is on the lode  
 line, 656 ft. from the center of line 1-2, Bushmaster lode,  
 3 x 5 ft., 55 ft. deep.  
 Value, \$1000.00
- No. 3 A shaft, the center of the southeast side of which is on the lode  
 line, 632 ft. from the center of line 1-2, Bushmaster lode,  
 6 x 6 ft. by 4 ft. deep.  
 Value, \$50.00
- No. 4 A shaft, the center of the southeast side of which is on the lode  
 line, 459 ft. from the center of line 1-2, Bushmaster lode,  
 4 x 5 ft. by 5 ft. deep.  
 Value, \$50.00

## SURVEY NO. 4357

- |   |       |  |
|---|-------|--|
| ✓ | No. 5 | A shaft, the center of the southeast side of which is on the lode line, 377 ft. from center of line 1-2, Bushmaster lode, 6 x 7 ft. by 6 ft. deep.<br>Value, \$75.00 |
| ✓ | No. 6 | A shaft, the center of which is on the lode line, 330 ft. from the center of line 1-2, Bushmaster lode, 4 x 6 ft. by 7 ft. deep.<br>Value, \$75.00                   |
| ✓ | No. 7 | A shaft, the center of which is on the lode line, 304 ft. from the center of line 1-2, Bushmaster lode, 4 x 8 ft. by 6 ft. deep.<br>Value, \$75.00                   |
| ✓ | No. 8 | A shaft, the center of which is on the lode line, 221 ft. from the center of line 1-2, Bushmaster lode, 4 x 6 x 50 ft. deep.<br>Value, \$1000.00                     |
| ✓ | No. 9 | A shaft, the center of which bears S.42°24'E., 282 ft. from cor. No. 1, Bushmaster lode, 5 x 6 ft. by 6 ft. deep.<br>Value, \$60.00                                  |
| ✓ | No.10 | A shaft, the center of which bears S.33°37'E., 301 ft. from cor. No. 1, Bushmaster lode, 4 x 5 ft. by 5 ft. deep.<br>Value, \$50.00                                  |
| ✓ | No.11 | A shaft, the center of which bears S.3°12'W., 551 ft. from cor. No. 1, Bushmaster lode, 4 x 4 ft. by 5 ft. deep.<br>Value \$50.00                                    |
| ✓ | No.12 | A shaft, the center of which bears S.7°34'W., 621 ft. from cor. No. 1, Bushmaster lode, 5 x 6 ft. by 4 ft. deep.<br>Value \$50.00.                                   |
| ✓ | No.13 | A shaft, the center of which bears N.89° 50'E., 343 ft. from cor. No. 4, Bushmaster lode, 6 x 6 ft. by 4 ft. deep.<br>Value \$50.00                                  |

## OTHER IMPROVEMENTS

None

## FIELD ASSISTANTS

Name	Capacity
William J. Cheek	Chainman

SAVING BANK

No. 7	A shaft, the center of the southeast side of which is on the line, 377 ft. from center of line 1-2, basement level, 4 x 3 ft. deep.	Value, \$75.00
No. 8	A shaft, the center of which is on the line, 390 ft. from center of line 1-2, basement level, 4 x 3 ft. deep.	Value, \$75.00
No. 9	A shaft, the center of which is on the line, 304 ft. from center of line 1-2, basement level, 4 x 3 ft. deep.	Value, \$75.00
No. 10	A shaft, the center of which is on the line, 311 ft. from center of line 1-2, basement level, 4 x 3 ft. deep.	Value, \$100.00
No. 11	A shaft, the center of which bears S. 73° 30' W. 351 ft. from center of line 1-2, basement level, 4 x 3 ft. deep.	Value, \$50.00
No. 12	A shaft, the center of which bears S. 73° 30' W. 351 ft. from center of line 1-2, basement level, 4 x 3 ft. deep.	Value, \$50.00
No. 13	A shaft, the center of which bears S. 73° 30' W. 351 ft. from center of line 1-2, basement level, 4 x 3 ft. deep.	Value, \$50.00

OTHER IMPROVEMENTS

Total

FIELD ASSAYERS

REPORT

NAME

POSITION

DATE OF WORK

SURVEY NO. 4357

5

## MERIDIAN ALTITUDE OBSERVATION ON THE SUN FOR LATITUDE.

At 1/4 Cor. between Secs. 23 and 24, T.8N., R.4W.

May 16th, 1951 - Time Noon.

Mean observed vertical angle to lower limb of sun  $74^{\circ} 46' 00''$ Correction for refraction and parallax  $00' 15''$  $74^{\circ} 45' 45''$ Sun's semi diameter  $+ 15' 51''$  $75^{\circ} 01' 36''$ Subtract  $75^{\circ} 01' 36''$  from  $90^{\circ} + =$   $14^{\circ} 58' 24''$ 

Sun's declination May 16th, 1951

Oh G.C.T. = N.  $18^{\circ} 51.7'$ 

Reduced to longitude

 $112^{\circ} 38'$ ;  $\frac{112.633}{15} = 7.51$ ; $7.51 + 12 = 19.51$  $19.51 \times .58' =$  $11.3'$  $19^{\circ} 03.0'$   $19^{\circ} 03' 00''$ Latitude  $34^{\circ} 01' 24''$ 

## MERIDIAN OBSERVATION AT NOON FOR TIME.

May 16th, 1951

Noon Solar time  $12.0$  Hrs.Add west longitude  $\frac{112^{\circ} 38'}{15} =$   $7.51$  " $19.51$  "Equation of time  $3^m 44.3^s$  $19.51 \times .03 =$   $.6^s$  $3^m 43.7^s =$  $0.062$  " $19.448$  "Zone correction to Mountain Time  $7.00$  " $12.448$  " $12.448$  Hrs. = $12^h 26^m 53^s$ Watch time observation west limb sun  $12^h 25^m 06^s$ " " " east " "  $12^h 27^m 18^s$ Average time  $12^h 26^m 12^s$ Watch slow  $41^s$

P. M. SOLAR OBSERVATION FOR AZIMUTH.

May 16th, 1951

Latitude  $34^{\circ} 01' 24''$

Longitude  $112^{\circ} 38'$

Average observed vertical angle =  $34^{\circ} 42' 45''$

Correction for refraction and parallax  $1' 15''$

Corrected altitude  $34^{\circ} 41' 30''$

Average time of observation  $4^h 29^m$

Midnight to noon  $12^h$  + zone difference  $7^h$   $19^h 00^m$

$23^h 29^m$

Declination  $0^h$  G.C.T. =  $18^{\circ} 51.7'$

$23.483 \times .58 = \underline{13.62'}$

$19^{\circ} 05.32'$  Dec.  $\hat{=}$   $19^{\circ} 05' 20''$

Cos. A =  $\frac{\text{Sin Dec.}}{\text{Cos. Lat.} \times \text{Cos. Alt.}}$  - Tan. Lat. x Tan. Alt.

Cos. A =  $\frac{.3270346}{.8288098 \times .8222268}$  -  $.6750830 \times .6922177$

Cos. A =  $+ .0125916$

A =  $89^{\circ} 16' 40''$

Average Hor. Angle =  $55^{\circ} 46' 15''$

Sum  $145^{\circ} 02' 55''$

Course Center Line Bushmaster Lode  $S.34^{\circ} 57' 05'' W$



UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

CERTIFICATE OF SURVEYOR

I, Richard L. Merritt, Mineral Surveyor,  
 hereby certify upon honor that in pursuance of an order received from the Office  
Cadastral Engineer, at Albuquerque, New Mexico,  
 dated April 23, 1951, I have faithfully and correctly executed the survey  
 of the mining claim of Kathryn O. McHugh  
 known as the Bushmaster Lode  
 (lode, placer, or millsite)  
 situate in  
Sections 23 and 24 T. 8 North R. 4 West,  
G. and S. R. B. and Meridian, Arizona, and designated  
 (State)  
 as Survey No. 4357, which is represented in the fore-  
 going 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 ex-  
 pended and improvements made upon or for the benefit of the Lode  
 (lode or placer)  
 location— embraced in the said mining claim by claimant— or her 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.

Prescott, Arizona  
(Place)

May 19th, 1951  
(Date)

*Richard L. Merritt*  
(Mineral Surveyor)

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

STATEMENT OF SURVEYOR

Special Survey  
No. 10000  
Section 10  
T. 10 N., R. 10 E., S. 10 E.  
County of \_\_\_\_\_, State of \_\_\_\_\_  
I, \_\_\_\_\_, Surveyor,  
do hereby certify that the above  
is a true and correct copy of the  
original as the same appears in  
the files of the Bureau of Land  
Management, Department of the  
Interior, at Washington, D. C.  
This is to certify that the  
above is a true and correct copy  
of the original as the same  
appears in the files of the  
Bureau of Land Management,  
Department of the Interior,  
at Washington, D. C.

Witness my hand and seal of office  
at \_\_\_\_\_, this \_\_\_\_\_ day of \_\_\_\_\_, 19\_\_\_\_.

\_\_\_\_\_  
Surveyor

CERTIFICATE OF APPROVAL OF FIELD NOTES AND SURVEY OF  
MINING CLAIM

UNITED STATES  
DEPARTMENT OF THE INTERIOR

~~GENERAL LAND OFFICE~~  
BUREAU OF LAND MANAGEMENT  
~~PLATONIC SURVEY OFFICE~~

Division of Engineering.

At Albuquerque, New Mexico

May 29, 1951, 19

I, Geo. H. Well Cadastral Engineer at Albuquerque, New Mexico

do hereby certify that the foregoing and hereto attached Field Notes and Return of the Survey of the  
Mining Claim of Kathryn O. McHugh

known as the  
Bushmaster

situate in Blue Tanks mining district,

Yavapi County, Arizona

in Sections 23 and 24, Township No. 8 North, Range No. 4 West

G. & S.R. Mer., designated as Survey No. 4357

executed by Richard L. Merritt, Mineral

Surveyor, May 16 to May 17, 1951, under my instructions dated

April 23, 1951, 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

included and made a part of these field notes.

*Geo. H. Well*  
Office Cadastral Engineer.





# United States Department of the Interior

IN REPLY REFER TO

9632 (942)

## BUREAU OF LAND MANAGEMENT

ARIZONA STATE OFFICE  
2400 VALLEY BANK CENTER  
PHOENIX, ARIZONA 85073

November 17, 1981

### Memorandum

To: Chief, Branch of Records and Data Management (952)  
From: Chief, Branch of Cadastral Survey  
Subject: Cancellation of Mineral Survey No. 4357

The signing of this memorandum hereby cancels the survey of unpatented Bushmaster lode claim of Mineral Survey No. 4357.

The following notation should be made on the plat of Mineral Survey No. 4357:

"Survey of Bushmaster lode claim cancelled by Chief, Branch of Cadastral Survey, memorandum dated November 17, 1981, File 9632 (942)."

A notation of this cancellation should also be made on the Mineral Mining District Sheets. This memorandum should be made a part of the original field notes. The plat and field notes should remain in the files.

This claim has not been recorded with the BLM in accordance with Section 314 of FLPMA of 1976, and is considered to be invalid as noted in a memorandum from the Chief, Branch of Records and Data Management, dated August 31, 1981.

This cancellation clears the records for State Selection Application A-17000(c).

*James P. Kelley*

*11-15-81  
hwp*

United States Department of the Interior



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