

Form 4-683  
(January 1963)

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

FIELD NOTES

Mineral Survey number

4699

State

Arizona

Land District

Arizona

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

Tuff American, Inc.  
1486 Major Street  
Salt Lake City, Utah 84115

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

CONSISTING OF LOCATIONS NAMED AND LOCATED AS FOLLOWS

NAME OF LOCATION	DATE	
	LOCATED	AMENDED
FIREFLY NUMBER ONE	7/15/64	8/16/71
"Red Chief"	11/30/66	8/16/71
FIREFLY NUMBER TWO	8/19/64	8/16/71

Mining district <b>Tip Top</b>			County <b>Maricopa</b>	
Section <b>5 32</b>	Township <b>7 &amp; 8 N.</b>	Range <b>2 E.</b>	Meridian <b>G&amp;SR</b>	Survey under order dated <b>8/16/71, Amd. 9/7/71</b>
Survey commenced <b>8/16/71</b>		Survey completed <b>9/10/71</b>	Name of Mineral Surveyor <b>Harvey W. Smith</b>	

STATE OF TEXAS  
COMMISSIONERS OF THE BANKS  
INTERNAL SECURITY

SECTION 171.001

Section 171.001. (a) A person commits an offense if the person knowingly or recklessly obtains, discloses, or attempts to obtain or disclose information that is confidential or otherwise protected by law, and the information is not in the public domain.

(b) The offense under this section is a Class A misdemeanor.

Section 171.002. (a) A person commits an offense if the person knowingly or recklessly obtains, discloses, or attempts to obtain or disclose information that is confidential or otherwise protected by law, and the information is not in the public domain, and the person is a member of the public.

Section 171.003. (a) A person commits an offense if the person knowingly or recklessly obtains, discloses, or attempts to obtain or disclose information that is confidential or otherwise protected by law, and the information is not in the public domain, and the person is a member of the public, and the person is a member of the public.

Section 171.004. (a) A person commits an offense if the person knowingly or recklessly obtains, discloses, or attempts to obtain or disclose information that is confidential or otherwise protected by law, and the information is not in the public domain, and the person is a member of the public, and the person is a member of the public.

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FEET

This survey was made with a Swiss Kern theodolite, Model DKM 1, No. 77769, having horizontal and vertical circles, 50 mm. in diam. The circles are graduated in degrees and 20-minute increments. An optical micrometer, adjustable to the vertical and horizontal circles, permits the reading of angles direct to 10-second accuracy and estimating to one-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 established by direct observation on the sun. At 08:45:35 a.m. on August 16, 1971, at Cor. No. 1 of the FIREFLY NUMBER TWO lode, latitude 33° 59' 10.33" N., longitude 112° 10' 30.24" W., turning from a reference point about 450 southeasterly clockwise to the sun in an easterly direction.

True bearing of reference point: S. 55° 39' 35" E.

The lines were measured with a Lufkin steel tape, 300 ft. in length, graduated every foot for 299 ft. and the remaining foot graduated to tenths and hundredths. The tape was compared to a standard and found to be correct. All lines and connections of this survey were run by direct methods.

The magnetic declination observed at each corner of the survey gave a uniform value of 14° E.

SURVEY NO. 4699

FIREFLY NUMBER TWO LODE

At Cor. No. 1 of the FIREFLY NUMBER TWO lode, identical with Cor. No. 2 of the "Red Chief" lode of this survey.

Set an iron post, 3/4 in. diam., 24 ins. long, in a 25 pound concrete and rock base, 12 ins. in the ground, with a brass cap, 2 ins. diam., firmly secured to the iron post, mkd. U. S. M. S. 4699 F.F. 2 1 R.C. 2X; from which

The 1/4 cor. of secs. 5 and 32, Ts. 7 and 8 N., R. 2 E., G&SRM, bears S. 44° 09' 20" W., 704.94 ft. dist.; an iron post, 1 in. diam., 12 ins. above ground, firmly set, marked and witnessed as described in the official record.

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FEET	
	<p>A wood post, 4 x 4 ins., 4 ft. above ground, in a mound of stones, sets adjacent to the iron post.</p> <p>Thence N. 34° 20' 25" E.</p>
410.	Telephone transmission line, bears N. 4° E. and S. 4° W.
600.	Left bank of dry wash, 30 ft. wide, course N. 20° W.
840.	Unimproved road, bears N. 30° W. and S. 30° E.
1075.	Left bank of dry wash, 50 ft. wide, course N. 40° W.
1499.34	<p>Cor. No. 2</p> <p>Set an iron post, 3/4 in. diam., 24 ins. long, in a 25 pound concrete and rock base, 12 ins. in the ground, with a brass cap, 2 ins. diam., firmly secured to the iron post, mkd. U.S.M.S. 4699 F.F. 2 2X; from which</p> <p>A wood post, 4 x 4 ins., 4 ft. above ground, in a mound of stones, sets adjacent to the iron post.</p> <p>Thence S. 55° 39' 35" E.</p>
300.0	Lode line; discovery pt. bears S. 34° 20' 25" W., 1449.34 ft. dist.
600.0	<p>Cor. No. 3</p> <p>Set an iron post, 3/4 in. diam., 24 ins. long, in a 25 pound concrete and rock base, 12 ins. in the ground, with a brass cap, 2 ins. diam., firmly secured to the iron post, mkd. U.S.M.S. 4699 F.F. 2 3X; from which</p> <p>A wood post, 4 x 4 ins., 4 ft. above ground, in a mound of stones, sets adjacent to the iron post.</p> <p>Thence S. 34° 20' 25" W.</p>
225.	Right bank of dry wash, 50 ft. wide, course N. 85° W.
625.	Unimproved road, bears N. 85° W. and East.
1255.	Right bank of dry wash, 30 ft. wide, course N. 10° E.
1499.34	<p>Cor. No. 4, identical with Cor. No. 3 of the "Red Chief" lode of this survey.</p> <p>Set an iron post, 3/4 in. diam., 24 ins. long, in a 25 pound concrete and rock base, 12 ins. in the ground, with a brass cap, 2 ins. diam., firmly secured to the iron post, mkd. U.S.M.S. 4699 F.F. 2 4 R.C. 3X; from which</p>

FEET	
	<p>A wood post, 4 x 4 ins., 4 ft. above ground, in a mound of stones, sets adjacent to the iron post.</p> <p>Thence N. 55° 39' 35" W.</p>
250.	Unimproved road bears N. 34° E. and S. 34° W.
300.0	Lode line; discovery pt. bears N. 34° 20' 25" E., 50.0 ft. dist.
355.	Telephone transmission line, bears N. 4° E. and S. 4° W.
600.0	Cor. No. 1, and place of beginning.
	<p>"Red Chief" LODE</p>
	<p>At Cor. No. 1 of the "Red Chief" lode, identical with Cor. No. 1 of the FIREFLY NUMBER ONE lode of this survey.</p> <p>Set an iron post, 3/4 in. diam., 24 ins. long, in a 25 pound concrete and rock base, 12 ins. in the ground, with a brass cap, 2 ins. diam., firmly secured to the iron post, mkd. U. S. M. S. 4699 R. C. 1 F. F. 1 IX; from which</p> <p>The 1/4 cor. of secs. 5 and 32, bears N. 25° 51' 30" E., 814.72 ft. dist.; previously described.</p> <p>A wood post, 4 x 4 ins., 4 ft. above ground, in a mound of stones, sets adjacent to the iron post.</p> <p>Thence N. 34° 20' 25" E.</p>
120.	Telephone transmission line, bears N. 59° W. and S. 59° E.
835.	Unimproved road, bears N. 50° W. and S. 50° E.
880.	Power line, bears East and West.
1499.64	Cor. No. 2, identical with Cor. No. 1 of the FIREFLY NUMBER TWO lode of this survey.
	<p>Thence S. 55° 39' 35" E.</p>
245.	Telephone transmission line, bears N. 4° E. and S. 4° W.
300.0	Lode line; discovery pt. bears S. 34° 20' 25" W., 956.64 ft. dist.
350.	Unimproved road, bears N. 34° E. and S. 34° W.

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FEET		
600.0	Cor. No. 3, identical with Cor. No. 4 of the FIREFLY NUMBER TWO lode of this survey.	
	Thence S. 34° 20' 25" W.	
200.	Power line, bears East and West.	
595.	Unimproved road, bears N. 4° E. and S. 4° W.	
610.	Telephone transmission line, bears N. 4° E. and S. 4° W.	
1335.	Telephone transmission line, bears N. 59° W. and S. 59° E.	
1345.	Unimproved road, bears N. 61° W. and S. 61° E.	
1499.64	Cor. No. 4, identical with Cor. No. 2 of the FIREFLY NUMBER ONE lode of this survey.	
	Set an iron post, 3/4 in. diam., 24 ins. long, in a 25 pound concrete and rock base, 12 ins. in the ground, with a brass cap, 2 ins. diam., firmly secured to the iron post, mkd. U.S.M.S. 4699 R.C. 4 F.F. 1 2X; from which	
	A wood post, 4 x 4 ins., 4 ft. above ground, in a mound of stones, sets adjacent to the iron post.	
	Thence N. 55° 39' 35" W.	
245.	Unimproved road, bears N. 50° E. and S. 65° W.	
300.0	Lode line; discovery pt. bears N. 34° 20' 25" E., 543 ft. dist.	
365.	Unimproved road, bears N. 45° E. and South.	
375.	Jasper dike, bears N. 42° E. and S. 42° W.	
600.0	Cor. No. 1, and place of beginning.	
	<b>FIREFLY NUMBER ONE LODE</b>	
	Beginning at Cor. No. 1 of the FIREFLY NUMBER ONE lode, identical with Cor. No. 1 of the "Red Chief" lode.	
	Thence S. 55° 39' 35" E.	
225.	Jasper dike, bears N. 42° E. and S. 42° W.	
235.	Unimproved road, bears N. 45° E. and South.	

FEET	
300.0	Lode line; discovery pt. bears S. 34° 20' 25" W., 100 ft. dist.
355.	Unimproved road, bears N. 50° E. and S. 65° W.
600.0	Cor. No. 2, identical with Cor. No. 4 of the "Red Chief" lode of this survey.  Thence S. 34° 20' 25" W.
395.	County graded dirt road, bears N. 72° W. and S. 72° E.
805.	Right bank of dry wash, 50 ft. wide, course N. 67° W.
1499.34	Cor. No. 3  Set an iron post, 3/4 in. diam., 24 ins. long, in a 25 pound concrete and rock base, 12 ins. in the ground, with a brass cap, 2 ins. diam., firmly secured to the iron post, mkd. U.S.M.S. 4699 F.F. 1 3X; from which  A wood post, 4 x 4 ins., 4 ft. above ground, in a mound of stones, sets adjacent to the iron post.  Thence N. 55° 39' 35" W.
300.0	Lode line; discovery pt. bears N. 34° 20' 25" E., 1399.34 ft. dist.
600.0	Cor. No. 4  Set an iron post, 3/4 in. diam., 24 ins. long, in a 25 pound concrete and rock base, 12 ins. in the ground, with a brass cap, 2 ins. diam., firmly secured to the iron post, mkd. U.S.M.S. 4699 F.F. 1 4X; from which  A wood post, 4 x 4 ins., 4 ft. above ground, in a mound of stones, sets adjacent to the iron post.  Thence N. 34° 20' 25" E.
545.	Left bank of dry wash, 50 ft. wide, course N. 56° W.
1045.	County graded dirt road, bears S. 50° E. and N. 55° W.
1499.34	Cor. No. 1, and place of beginning.

FEET	AREAS
	<u>Acres</u>
	Total area, FIREFLY NUMBER ONE lode 20.652
	Total area, FIREFLY NUMBER TWO lode 20.652
	Total area, "Red Chief" lode 20.656
	<b>LOCATION</b>
	This survey is located in the NE 1/4 and NW 1/4 Sec. 5 and SE 1/4 sec. 32, Ts. 7 and 8 N., R. 2 E., G&SRM.
	The survey of the FIREFLY NUMBERS ONE and TWO lodes and the "Red Chief" lode is identical with the respective location or amended location as marked on the ground.
	<b>EXPENDITURES</b>
	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 claimants or their grantors are as follows:
No. 1	The discovery point of the FIREFLY NUMBER ONE lode is on the lode line 100 ft. from a point on line 1-2, 300.0 ft. from Cor. No. 1. Value: None
No. 2	A cut, the NW. cor. of which bears S. 34° E., 295 ft. from Cor. No. 1 FIREFLY NUMBER ONE lode; 5 ft. wide, 3 1/2 ft. average depth, running East, 12 ft. Value: \$150.00
No. 1	The discovery point of the "Red Chief" lode is on the lode line 543 ft. from a point on line 4-1, 300.0 ft. from Cor. No. 4. Value: None
No. 2	A cut, the SW. cor. of which bears N. 61° E., 595 ft. from Cor. No. 1 "Red Chief" lode; average width is 7 ft., average depth is 3 1/2 ft. running N. 35° E., 20 ft. Value: \$300.00
No. 3	A cut, the NE. cor. of which bears N. 59° W., 170 ft. from Cor. No. 3 "Red Chief" lode, 4 ft. wide, running N. 60° W., 20 ft. to a 5 ft. face. Value: \$200.00



FEET	
No. 4	<p>A cut, the SW. cor. of which bears N. 78° 30' E., 400 ft. from Cor. No. 1 "Red Chief" lode; 4 ft. wide, 1 1/2 ft. deep, running N. 45° E., 6 ft. Value: \$50.00</p>
No. 5	<p>A drill hole, the collar of which bears S. 59° E., 262 ft. from Cor. No. 1 "Red Chief" lode; 2 ins. diam., 10 ft. deep. Value: \$50.00</p>
No. 6	<p>A cut, the SW. cor. of which bears N. 39° E., 820 ft. from Cor. No. 1 "Red Chief" lode; 10 ft. wide, average depth 4 ft., running East, 25 ft. Value: \$400.00</p>
No. 1	<p>The discovery point of the FIREFLY NUMBER TWO lode is on the lode line 50 ft. from a point on line 4-1, 300.0 ft. from Cor. No. 4. Value: None</p>
No. 2	<p>An inclined shaft, the collar of which bears N. 83° E., 175 ft. from Cor. No. 1 FIREFLY NUMBER TWO lode; 8 x 10 ft. in size, inclined 60° West, 8 ft. deep. Value: \$500.00</p>
No. 3	<p>A cut, the SE. cor. of which bears N. 51° W., 255 ft. from Cor. No. 4 FIREFLY NUMBER TWO lode; 3 1/2 ft. average depth, 6 ft. wide, running N. 45° E., 10 ft. Value: \$100.00</p> <p>An interest in a common improvement described as follows:</p> <p>A cut, the south end of which bears S. 52° E., 240 ft. from Cor. No. 1 FIREFLY NUMBER ONE lode. The cut is 12 ft. wide and serves as an access road to the jasper dike which is exposed in an 8 ft. high face on the east side of the cut. The cut runs N. 42° E., 240 ft.</p> <p style="text-align: right;">Value of cut: \$1,500.00 Value of one-half interest: 750.00</p> <p>This improvement was made to expose the jasper dike which at this point crosses from the FIREFLY NUMBER ONE lode onto the "Red Chief" lode which are contiguous lode claims owned in common and benefitted by this cut.</p> <p>Five hundred dollars or over has been expended in this improvement in such a manner as tends to the development of the FIREFLY NUMBER ONE and "Red Chief" lodes subsequent to their location and to the time since which common ownership and contiguity have prevailed; therefore, an undivided one-half interest in its value is hereby credited to each of said lodes.</p>

FEET

No portion of or interest in this improvement has been credited heretofore as patent expenditure to any lode claim.

#### OTHER IMPROVEMENTS

A steel frame and aluminum siding building, the SE. cor. of which bears N. 27° E., 775 ft. from Cor. No. 4 "Red Chief" lode; 11 1/2 ft. x 55 ft. in size; the long sides bear N. 43° 30' E.

Claimant herein.

#### OTHER CORNER DESCRIPTIONS AND SUPPLEMENTAL DATA

None

#### FIELD ASSISTANTS

Name

Capacity

George Erickson

Chainman-Axeman

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

CERTIFICATE OF SURVEYOR

Name of Mineral Surveyor <b>Harvey W. Smith</b>	Date <b>9/12/71</b>
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I HEREBY CERTIFY That in pursuance of an order received from the Bureau of Land Management, at Phoenix, Arizona, dated 8/16/71 and Amd. 9/7/71, 1971, I have carefully executed the survey of the claim of Tuff American, Inc. known as the (lode, placer, or mill site) "Red Chief" and FIREFLY NUMBERS ONE & TWO Lodes, situated in Tip Top Mining District, Maricopa County, Secs. 5 & 32, Township<sup>s</sup> 7 & 8 N., Range 2 E., G&SR Meridian, in the State of Arizona.

This survey, designated as number 4699, 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) lode location(s) embraced in the said mining claim by claimant(s) or its 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.

<b>Paradise Valley, Arizona</b> (Location)	 (Signature of Mineral Surveyor)
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CERTIFICATE OF APPROVAL

BUREAU OF LAND MANAGEMENT
Office <b>Arizona State Office</b>
Location <b>Phoenix, Arizona</b>
Date <b>January 10, 1972</b>

The foregoing field notes of mineral survey number 4699, in Sections 5 and 32, Range 2 E., Gila & Salt River Meridian, in the State of Arizona,  surveyed  unsurveyed Township<sup>s</sup> 7 & 8 N., executed by Harvey W. Smith, Mineral Surveyor, under order dated 8/16/71 & Amd. 9/7, 1971, 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)	<b>State Director</b> (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 is a true copy of the original field notes.

 (Authorized Signature)	 (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.

THE UNIVERSITY OF CHICAGO  
DEPARTMENT OF CHEMISTRY  
5800 S. UNIVERSITY AVE.  
CHICAGO, ILL. 60637

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Dear Mr. [Name]:

I have received your letter of [Date] regarding [Subject]. I am sorry that I cannot provide a more definitive answer at this time, but the information is still being processed.

I will contact you again as soon as a final decision has been reached. Your patience is appreciated.

Sincerely,  
[Name]

[Address]

[Additional information]

[Additional information]

[Additional information]

[Additional information]