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ARIZONA STATE OFFICE  
BUREAU OF LAND MANAGEMENT

AUG 5 - 1970

ST. DIR. \_\_\_\_\_  
ASST. TO ST. DIR. \_\_\_\_\_  
R.P.M. \_\_\_\_\_  
LBM LO. \_\_\_\_\_  
ADM. \_\_\_\_\_  
ENG. \_\_\_\_\_  
ECON. \_\_\_\_\_  
TRAINING \_\_\_\_\_  
SAFETY \_\_\_\_\_  
REPLY 1

United States Department of the Interior

BUREAU OF LAND MANAGEMENT  
WASHINGTON, D.C. 20240

*Hansen*

229A  
IN REPLY REFER TO:

~~9180.1~~ (420)

9180

JUL 31 1970

Memorandum

To: State Director, Arizona

From: Chief, Division of Cadastral Survey

Subject: Requested cancellation of Homestead Entry Survey 556, Arizona

No purpose would be served by cancelling this survey now. The monuments would remain on the ground. In any case, it would still be necessary to retain the plat and field notes in the files.

If, at some future time, the Forest Service needs to base a title action on description by section and aliquot parts, cancellation might then be appropriate.

*Clark F. Lemm*

LAND OFFICE  
PHOENIX, ARIZONA

1970 AUG 5 PM 12 09 .6

RECEIVED  
BUREAU OF  
LAND MANAGEMENT

224B 3

State Office  
3022 Federal Building  
Phoenix, Arizona 85025

July 24, 1970

Memorandum

To: Director  
From: Acting State Director, Arizona  
Subject: Homestead Entry Survey No. 556

It is requested the above-numbered survey be cancelled.

The homestead entry was relinquished on January 2, 1923. The Forest Service reports there is no longer any need for the survey. A copy of the Forest Service memorandum is enclosed.

RILEY E. FURMAN

CB: pas

CROOK NATIONAL FOREST

1.

STATE OF ARIZONA

Chains

Applicant for listing, Wirt Anderson; Application No. 241, dated March 6, 1913; List No. 3-2647, dated June 24, 1913; H. E. 031171, made in the Phoenix Land Office on September 26, 1916, by Harvey D. Thornhill.

Surveyed under special instructions from the Surveyor General for Arizona, dated February 15, 1918, and designated as Homestead Entry Survey No. 556.

Situated in what will probably be when surveyed Section 27, T. 3 N., R. 16 E., Gila and Salt River Base and Meridian, Crook National Forest, Arizona.

Surveyed under the Acts of June 11, 1906, and October 1, 1918.

Survey commenced February 10, 1919, and executed with a Buff and Buff transit No. 10019, equipped with Smith solar attachment.

I test the adjustments of the transit and make necessary corrections.

All distances are horizontal, and were reduced from measurements made directly on the slope with a 500 link steel tape. The slope angles were determined with a clinometer.

February 10, 1919.

At Cor. H/3 of the list survey and what will be Cor. No. 2 of this survey, hereinafter described, I observe the altitude of the sun for Azimuth. The reading on the reference object is set at 191°51' and the sun was observed in all four quadrants of the field. My watch is set for local mean time.

Latitude 33°34'02" N., Longitude 110°39'16" W., from Forest Service Base Map.

13 pages

HOMESTEAD ENTRY SURVEY NO. 556

CROOK NATIONAL FOREST

2.

STATE OF ARIZONA

Chains	Telescope	Time p.m.	Pos. sun	Horizontal Angle	Vertical Angle
	Direct	3h 46m 15s	+°	55°06'15"	20°05'30"
	Reversed	3h 52m 15s	°+	56°44'00"	19°38'00"
	Direct	3h 47m 45s	°+	55°56'15"	19°50'00"
	Reversed	3h 50m 15s	+°	55° 51'00"	19°58'30"

Bearing of reference mark is N. 12°02'35" E.

At the same station I again observe the altitude of the sun for Azimuth. The reading on the reference object is set at 191°51' and the sun was observed in all four quadrants of the field. My watch is set for local mean time.

Telescope	Time p.m.	Pos. sun	Horizontal Angle	Vertical Angle
Direct	3h 57m 42s	+°	57°08'30"	18°40'00"
Reversed	4h 03m 12s	°+	58°41'45"	17°09'00"
Direct	3h 59m 12s	°+	58°00'00"	18°22'00"
Reversed	4h 01m 42s	+°	57°50'15"	17°26'30"

Bearing of reference object is N. 12°02'21" E.

The two obsns. give a mean bearing of reference mark as N. 12°02'28" E., and to the corresponding meridian all the courses of this survey are referred by sustained angulation.

February 10, 1919.

BOUNDARIES OF CLAIM

February 18, 1919.

Beginning at Cor. No. 1.

Identical with Cor. H/2 of the list survey, which is a quartzite stone 10x12x15 ins. above ground, marked and witnessed as described by the Forest Service. I destroy all trace of this list Cor.

Deposit a sandstone 3x3x5 ins. marked with a + 16 ins. in the ground, on solid rock, over which set a

## Chains

red porphyry stone 26x16x5 ins., chiseled + for the point and 1 HES 556 on S. face; raise a mound of stone 3 ft. base, 2 ft. high, S. of Cor., whence:

A cedar 16 ins. dia. brs. N. 46°32' E.

39 lks. dist., blazed and scribed

1 HES 556 + BT

A + on top of a grey basalt boulder in place,

showing 6x4x2 ft. above ground, chiseled

1 HES 556 + BR on NW. face, bears S.

32°30' E., 141 lks. dist.

U. S. L. M. No. 572 HES., established by

forest Ranger F. L. Kirby, on February 14,

1919, in connection with the survey of

HES 572, which is a sandstone 12x12x8 ins.

above ground, marked + on top and U. S. L. M.

572 HES on N. face, witnessed by mound of

stone 6 ft. base, 5 ft. high, bears N.

3°26'34" W. 101.08 chs. dist. by traverse

which appears at the end of these notes.

The 5-1/2 mile Cor. on West Boundary of White

Mountain Indian Reservation, an iron post

1 in. dia. with brass cap, marked and wit-

nessed as described by the Surveyor General

bears S. 69°55'21" E. 167.79 chs. by traverse

which appears at the end of these notes.

Lat. 33°34'06" N., Long. 110°39'18" W. from Forest

Service Base Map.

Mag. decl. at 9 a.m. is 14°30'E., which corrected

for diurnal change gives a mean mag. decl. of 14°28'E.

Note: Tie was not made to U. S. L. M. No. 1209 as

directed in the special instructions, because of the

fact that U. S. L. M. No. 572 HES is more accessible

Chains and considerably closer.

Thence S. 23°50' E.

Descending 40 ft. over SW. slope.

2.45 McMillen Wash, 50 lks. wide, 4 ft. deep, running water 10 lks. wide, 9 ins. deep, course N. 75° E. Bottom of descent. Ascend NW. slope 35 ft.

4.71 To Cor. No. 2.

Identical with Cor. H/3 of the list survey, which is a blue malpais stone 16x18x10 ins. above ground, marked and witnessed as described by the Forest Service. I destroy all trace of this list Cor.

Deposit a basalt stone 1x4x6 ins. marked with a + 8 ins. in the ground, on solid rock, over which set a basalt stone 28x16x6 ins. chiseled + for the point, and 2 HES 556 on W. face; surrounded by a mound of stone 3 ft. base, 1-1/2 ft. high; raise a mound of stone 3 ft. base, 2 ft. high, W. of Cor.; whence:

A cedar 16 ins. dia. brs. S. 66°20' E.  
62 lks. dist.

A cedar 16 ins. dia. brs. S. 43°46' E. 390 lks. dist.

Each blazed and scribed 2 HES 556 + BT.

---

Thence S. 70°56' W.

Through heavy oak brush, along rocky NW. slope.

19.34 To Cor. No. 3.

Identical with Cor. H/4 of the list survey, which is a porphyry stone 8x12x12 ins. above ground, marked and witnessed as described by the Forest Service. I destroy all trace of this list Cor.

Deposit a basalt stone 6x4x2 ins. marked with a + 16 ins. in the ground, over which set a sandstone 24x17x5 ins. chiseled + for the point and 3 HES 556 on N. face; raise a mound of stone 3 ft. base 2 ft. high N. of Cor. whence

CROOK NATIONAL FOREST  
STATE OF ARIZONA

Chains	A walnut 8 ins. dia., brs. N. 30° 43' W., 60 lks. dist.
	A black oak 8 ins. dia., brs. S. 33° 30' W., 14 lks. dist.
	Each blazed and scribed 3 H E S 556 + B T
	Thence N. 15° 55' W. Desc. 10 ft. over NW. slope.
1.00	McMillen Wash, 25 lks. wide, 3 ft. deep, running water, 10 lks. wide, 1 ft. deep, course N. 60° E.; Bottom of desc. - Thence over level bottom land.
1.31	Trail to Globe, brs. N. 60° E. and S. 60° W.
2.71	Small draw, 25 lks. wide, 3 ft. deep, (dry) course East.
4.20	Begin asc. of 20 ft. over SW. slope to cor.
5.18	To Cor. No. 4. Identical with cor. H-1 of the list survey, which is a limestone 10 x 12 x 12 ins. above ground, marked and witnessed as described by the Forest Service. I de- stroy all trace of this list cor. Deposit a sandstone 6 x 5 x 3 ins. marked with a + 14 ins. in the ground, over which set a sandstone 24 x 14 x 6 ins. chiseled + for the point and 4 H E S 556 on E. face; raise a mound of stone 3 ft. base, 2 ft. high, E. of cor., whence: A walnut 14 ins. dia., brs. S. 61° 08' E., 270 lks. dist. A hackberry 8 ins. dia., brs. S. 22° 24' E., 151 lks. dist. Each blazed and scribed 4 H E S 556 + B T Thence N. 72° 29' E. Asc. 30 ft. over SW. slope.
1.31	Top of ascent on point of spur, bears SE.



CROOK NATIONAL FOREST

STATE OF ARIZONA

Chains Desc. 30 ft., over SE. slope. 1 3 Jun Law A

2.45 Arroyo, 10 lks. wide, 3 ft. deep, (dry), course S. 78° E.  
Ascend 35 ft. over SW. slope.

3.71 Top of asc. Thence along rolling SE. slope, thru oak brush.

8.65 Trail, bears N. and S.

17.31 Arroyo, 8 lks. wide, 3 ft. deep, (dry) course S. 25° E.

18.68 To Cor. No. 1, the place of beginning.

AREA

Total Area 9.37 Acres

IMPROVEMENTS

The improvements made upon and for the benefit of this claim, and belonging to the claimant, consist of the following:

A tent house 12 x 14 ft. the long sides extending NE. and SW., the N. cor. of which bears S. 77° 06' W., 9.60 chs. dist. from Cor. No. 2.

Value \$ 20.00

Approximately 3/8 miles of barbed wire fencing,

Value \$ 50.00

DESCRIPTION

The claim is situated on McMillen Wash, a tributary of the Gila River.

The tract consists mostly of low flat land on both sides of Mc. Millen Wash. The bottom land is a rich alluvium of good depth, and is well adapted for agricultural purposes. The area along the hillsides is rocky and fit for grazing purposes only. Water for domestic use is obtained from McMillen Wash, which crosses the claim from SW. to NE.

CROOK NATIONAL FOREST

STATE OF ARIZONA

Chains

Approximately seven acres of the area is suitable for farming, of which 3-1/2 acres show signs of having been cultivated in the past. Sufficient water for irrigation can be obtained from McMillen Wash. The principal value of the claim is for a stock headquarters ranch. The claimant joined the U. S. Army in 1917, and at the time of survey the claim showed no signs of residence or cultivation since that date. There is no timber of commercial value on the claim, and no evidence of mineral was observed.

CONFLICTS AND ADJOINING CLAIMS

CONFLICTS AND ADJOINING CLAIMS

There are no conflicts or adjoining claims. HES 572 lies about 1-1/2 miles to North.

Globe, Arizona, the nearest town, postoffice and railway station, is about 20 miles in a southwesterly direction by trail.

The listing survey locates this claim in Secs. 25 and 30, T. 3 N., Rs. 16 and 17 E., which location is found to be in error by reason of the erroneous protraction of sec. lines, no provision having been made therein for fractional T. 3 N., R. 15-1/2 E.

TRAVERSES

Course	Dist.	N.	S.	E.	W.
S. 23° 50' E.	4.71		4.31	1.90	
S. 70° 56' W.	19.34		6.32		18.28
N. 15° 55' W.	5.18	4.98			1.42
N. 72° 29' E.	18.68	5.62		17.81	
	47.91	10.60	10.63	19.71	19.70
			10.60	19.70	
Error in Lat. and Dep.			.03	.01	
Closing Error, 1:1515					

CROOK NATIONAL FOREST

STATE OF ARIZONA

Chains

TIE FROM COR. NO. 1 TO U. S. L. M.

No. 572 H. E. S.

Course	Dist.	N.	S.	E.	W.
N. 2° 29' E.	9.22	9.21		.40	
N. 4° 02' W.	91.92	91.69			6.47
		100.90	0.00	0.40	6.47
					.40
					6.07

Resultant course N. 3° 26' 34" W., 101.08 chs.

Survey completed February 18, 1919.

*[Handwritten Signature]*

Surveyor - Forest Service,

There are no conflicts or adjoining claims in this survey. The monument tower, located in the northeast corner of the section, is about 30 miles in a southeasterly direction from the station. The distance between the station and the monument tower is 101.08 chains. The distance between the station and the monument tower is 101.08 chains. The distance between the station and the monument tower is 101.08 chains.

Course	Dist.	N.	S.	E.	W.
N. 2° 29' E.	9.22	9.21		.40	
N. 4° 02' W.	91.92	91.69			6.47
		100.90	0.00	0.40	6.47
					.40
					6.07

CROOK NATIONAL FOREST

STATE OF ARIZONA

Chains

Computation Direct Solar Observation

Cor. No. 2, H. E. S. 556

Elevation about 4200 ft.

Latitude  $33^{\circ} 34' 13''$  N., Long.  $110^{\circ} 39' 16''$  W., from

Forest Service Base map.

Reading on reference mark,  $191^{\circ} 51'$ .

Telescope	Pos.	Time	Horizontal Angle	Vertical Angle
	sun	p.m.		

Direct	+	3h 46m 15s	$55^{\circ} 06' 15''$	$20^{\circ} 05' 30''$
--------	---	------------	-----------------------	-----------------------

Reversed	+	3h 52m 15s	$56^{\circ} 44' 00''$	$19^{\circ} 38' 00''$
----------	---	------------	-----------------------	-----------------------

Direct	+	3h 47m 45s	$55^{\circ} 56' 15''$	$19^{\circ} 50' 00''$
--------	---	------------	-----------------------	-----------------------

Reversed	+	3h 50m 15s	$55^{\circ} 51' 00''$	$19^{\circ} 58' 30''$
----------	---	------------	-----------------------	-----------------------

Means		3h 49m 07s	$55^{\circ} 54' 22''$	$19^{\circ} 53' 00''$
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Refr.  $02' 10''$

Decl.  $14^{\circ} 26' 29''$  S.  $19^{\circ} 50' 50''$

$$\text{Cos. } Q = \frac{\sin. 14^{\circ} 26' 29''}{\cos. 33^{\circ} 34' 13'' \times \cos. 19^{\circ} 50' 50''} - \tan 33^{\circ} 34' 13''$$

$$\times \tan. 19^{\circ} 50' 50''$$

$$\log \sin 14^{\circ} 26' 29'' = 9.3968781$$

$$\log \cos. 33^{\circ} 34' 13'' = 9.9207535$$

$$\log \cos. 19^{\circ} 50' 50'' = 9.9734056$$

$$9.5027190 = \log. .31821$$

$$\log. \tan. 33^{\circ} 34' 13'' = 9.8219397$$

$$\log. \tan. 19^{\circ} 50' 50'' = 9.5574512$$

$$9.3793909 = \log. .23955$$

$$\text{Cos. } Q. = .55776$$

$$Q = 56^{\circ} 05' 57''$$

Bearing of reference mark is N.  $12^{\circ} 02' 35''$  E.

33 34 02  
page 1  
page 2

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CROOK NATIONAL FOREST

STATE OF ARIZONA

Chains

Direct Solar at Cor. No. 2, H. E. S. 556.

Reading on reference mark, 191° 51' 30"

Telescope	Pos.	Time	Horizontal Angle	Vertical Angle
Direct	sun	3h 57m.42s	57° 08' 30"	18° 40' 00"

Reversed	+	4h 03m.12s	58° 41' 45"	17° 09' 00"
----------	---	------------	-------------	-------------

Direct	+	3h 59m.12s	58° 00' 00"	18° 22' 00"
--------	---	------------	-------------	-------------

Reversed	+	4h 01m.42s	57° 50' 15"	17° 26' 30"
----------	---	------------	-------------	-------------

		4h 00m 27s	57° 55' 07"	17° 54' 22"
--	--	------------	-------------	-------------

Refr. 02' 31"

Decl. 14° 26' 20" S. 17° 51' 51"

Cos. Q. =  $\frac{\sin. 14^\circ 26' 20''}{\cos. 33^\circ 34' 13''} \times \cos. 17^\circ 51' 51''$  - tan 33° 34' 13"

x tan 17° 51' 51"

log. sin. 14° 26' 20" = 9.3968046

log. cos. 33° 34' 13" = 9.9207535

log. cos. 17° 51' 51" = 9.9785395

9.4975116 = log. .31442

log. tan. 33° 34' 13" = 9.8219397

log. tan. 17° 51' 51" = 9.5082612

9.3308009 = log. .21390

Cos. Q = .52832

Q = 58° 06' 28"

Bearing of reference mark is N. 12° 02' 21" E.

log. tan. 12° 02' 21" = 9.324318

log. cos. 12° 02' 21" = 9.989735

log. sin. 12° 02' 21" = 9.324318

log. tan. 12° 02' 21" = 9.324318

- DIRECTIONS.—1. Carry out calculations to two decimals only.  
 2. In balancing Latitudes and Departures do not obliterate or change the original figures.  
 Put the corrected figure or figures above in red ink. Do not change the footing of the original figures, but put below them the corrected footing in red ink.  
 The corrections for balancing fallings should be proportional to the lengths of the lines.  
 3. In calculations of fallings take result to nearest link. In calculations of N. and S. areas drop all after second decimal. Surveyors are required to use the Standard Field Tables issued by the G. L. O.  
 4. Only three copies of this tabulation are necessary, for the District Office, the Surveyor General, and the Commissioner.

TABLING AND CALCULATIONS OF HOMESTEAD ENTRY SURVEY NO. 556, STATE OF Arizona

8-2349

CORNERS.	BEARING.	DISTANCE.	LATITUDES.		DEPARTURES.		DOUBLE M. D.		N. AREAS.		S. AREAS.	
			NORTH.	SOUTH.	EAST.	WEST.						
1 - 2	S 23-50 E.	4.71		4 31	1 90		37 52			161 71		
2 - 3	S. 70-56 W.	19.34		6 32		18 28	21 13			133 12		
3 - 4	N. 15-55 W.	5.18	4 98			1 42	1 42		7 07			
4 - 1	N. 72-29 E.	18.68	5 62		17 81		17 81		100 27			
		47.91	10 60	10 63	19 71	19 70			107 34	294 83		
			1061	10 60	19 70	19 71				107 34		
	Error in Lat. and Dep.			03	01					20/187 49		
	Closing Error 1:1515									9 37	Acres	
			TIE FROM COR. NO. 1, TO U. S. L. M. No. 572, H. E. S.									
	N. 2-29 E.	9.22	9 21		40							
	N. 4-02 W.	91.92	91 69			6 47						
			100 90	0 00	40	6 47						
						40						
						6 07						
			Resultant course, N. 3° 26' 34" W., 101.08 chs.									

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DIRECTIONS.—1. Carry out calculations to two decimals only.

2. In balancing Latitudes and Departures do not obliterate or change the original figures.

Put the corrected figure or figures above in red ink. Do not change the footing of the original figures, but put below them the corrected footing in red ink.

The corrections for balancing fallings should be proportional to the lengths of the lines.

3. In calculations of fallings take result to nearest link. In calculations of N. and S. areas drop all after second decimal. Surveyors are required to use the Standard Field Tables issued by the G. L. O.

4. Only three copies of this tabulation are necessary, for the District Office, the Surveyor General, and the Commissioner.

TABLING AND CALCULATIONS OF HOMESTEAD ENTRY SURVEY NO. 556, STATE OF ARIZONA

8-2349

CORNERS.	BEARING.	DISTANCE.	LATITUDES.		DEPARTURES.		DOUBLE M. D.	N. AREAS.	S. AREAS.
			NORTH.	SOUTH.	EAST.	WEST.			
			Tie from Cor. No. 1 to 5-1/2 mile Cor. on W. bdy. White Mtn. Indian Reservation						
	N. 51° 25' E.	4.48	2 79		3 50				
	S. 79° 49' E.	87.31		15 44	85 93				
	S. 59° 54' E.	48.27		24 21	41 76				
	S. 83° 16' E.	23.30		2 73	23 14				
	S. 16° 48' E.	7.94		7 60	2 29				
	S. 22° 19' E.	7.66		7 09	2 91				
	S. 30° 19' W.	3.85		3 32		1 94			
				60 39	159 53				
				2 79	1 94				
				57 60	157 59				
	Resultant Course S. 69° 55' 21" E.	167.79							

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APPROVAL

Office of the United States Surveyor General,

Phoenix, Arizona, March 21, 1922

The foregoing field notes of Homestead Entry Survey No.

556

executed by *Frank D. Yost, Surveyor* [Forest Service Title.]  
under his special instructions, dated *February 15*, 1918, having  
been critically examined, and the necessary corrections and explanations  
made, the said field notes, and the surveys they describe, are hereby  
approved.

  
U. S. Surveyor General.

I certify that the foregoing transcript of the field notes of the  
above-described survey in the State of *Arizona*, has been  
correctly copied from the original notes on file in this office.

FRANK P. TROTT

U. S. Surveyor General.