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 J. Humm
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.

R.L.L. FURMAN

CB: pas
<table>
<thead>
<tr>
<th>Chains</th>
</tr>
</thead>
</table>

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°54'02" N., Longitude 110°39'16" W., from Forest Service Base Map.
### Homestead Entry Survey No. 556

**Crouch National Forest**

**State of Arizona**

<table>
<thead>
<tr>
<th>Chains</th>
<th>Telescope</th>
<th>Time</th>
<th>Pos.</th>
<th>Horizontal Angle</th>
<th>Vertical Angle</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Direct</td>
<td>2h 46m 15s</td>
<td>+°</td>
<td>55°06'15&quot;</td>
<td>20°05'20&quot;</td>
</tr>
<tr>
<td></td>
<td>Reversed</td>
<td>3h 52m 15s</td>
<td>+°</td>
<td>56°44'00&quot;</td>
<td>19°28'00&quot;</td>
</tr>
<tr>
<td></td>
<td>Direct</td>
<td>3h 47m 45s</td>
<td>+°</td>
<td>55°56'15&quot;</td>
<td>19°50'00&quot;</td>
</tr>
<tr>
<td></td>
<td>Reversed</td>
<td>3h 50m 15s</td>
<td>+°</td>
<td>55°51'00&quot;</td>
<td>19°58'20&quot;</td>
</tr>
</tbody>
</table>

**Bearing of reference mark is N. 12°02'26" E.**

At the same station I again observe the altitude of the sun for Asimuth. 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.

<table>
<thead>
<tr>
<th>Telescope</th>
<th>Time</th>
<th>Pos.</th>
<th>Horizontal Angle</th>
<th>Vertical Angle</th>
</tr>
</thead>
<tbody>
<tr>
<td>Direct</td>
<td>3h 57m 42s</td>
<td>+°</td>
<td>57°08'30&quot;</td>
<td>18°40'00&quot;</td>
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<tr>
<td>Reversed</td>
<td>4h 02m 12s</td>
<td>+°</td>
<td>58°41'15&quot;</td>
<td>17°09'00&quot;</td>
</tr>
<tr>
<td>Direct</td>
<td>3h 59m 12s</td>
<td>+°</td>
<td>58°00'00&quot;</td>
<td>18°22'00&quot;</td>
</tr>
<tr>
<td>Reversed</td>
<td>4h 01m 42s</td>
<td>+°</td>
<td>57°50'15&quot;</td>
<td>17°26'30&quot;</td>
</tr>
</tbody>
</table>

**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 angularion.

February 10, 1919.

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**Boundaries of Claim**

February 12, 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 5x3x5 ins. marked with a + 16 ins. in the ground, on solid rock, over which set a
red porphyry stone 26 x 16 x 5 ins., chiseled + for the point and 1 HES 556 on S. face; raise a mound of stone 5 ft. base, 2 ft. high, S. of Cor., whence:
A cedar 16 ins. dia. brs. N. 46° 32' E.
39 lbs. dist., blazed and scribed
1 HES 556 + BT
A + on top of a grey basalt boulder in place, showing 6 x 4 x 2 ft. above ground, chiseled
1 HES 556 + BK on NW. face, bears S.
32° 30' E., 141 lbs. dist.

U. S. L. M. No. 572 HES., established by forest Ranger L. Kirby, on February 14, 1919, in connection with the survey of HES 572, which is a sandstone 12 x 12 x 8 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 esp, marked and witnessed 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° 32' 16" 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
<table>
<thead>
<tr>
<th>Chains</th>
<th>and considerably closer.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Thence S. 22°50' E.</td>
<td>Descending 40 ft. over SW. slope.</td>
</tr>
<tr>
<td>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.</td>
<td></td>
</tr>
<tr>
<td>4.71 To Cor. No. 2.</td>
<td>Identical with Cor. H/3 of the list survey, which is a blue malpais stone 16x16x10 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 2 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. 45°46' E. 390 lks. dist. Each blazed and scribed 2 HES 556 + BT.</td>
</tr>
<tr>
<td>Thence S. 70°55' W.</td>
<td>Through heavy oak brush, along rocky NW. slope.</td>
</tr>
<tr>
<td>19.34 To Cor. No. 3.</td>
<td>Identical with Cor. H/4 of the list survey, which is a porphyry stone 6x16x12 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</td>
</tr>
</tbody>
</table>
HOMESTEAD ENTRY SURVEY NO. 556.

CROOK NATIONAL FOREST

STATE OF ARIZONA

Chains

A walnut 8 ins. dia., brs. N., 30° 43' W.,
60. lbs. dist.

A black oak 8 ins. dia., brs. S. 35° 20' W.,
14 lbs. 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 lbs. wide, 3 ft. deep, running water,
10 lbs. wide, 1 ft. deep, course N. 60° E.; Bottom of
desc. Thence over level bottom land.

1.51

Trail to Globe, brs. N. 60° E. and S. 60° W.

2.71

Small draw, 25 lbs. wide, 3 ft. deep, (dry) course East.

4.20

Begin asc. of 20 ft. over SW. slope to cor.

5.18

To Cor. No. 1.

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.

0.06

Deposit a sandstone 6 x 6 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° 03' E.,
270 lbs. dist.

A hackberry 6 ins. dia., brs. S. 22° 24' E.,
151 lbs. dist.

Each blazed and scribed 4 H E S 556 + B T

Thence N. 72° 29' E.
Asc. 30 ft. over SW. slope.

1.51

Top of ascent on point of spur, 'bears NE.
HOMESTEAD ENTRY SURVEY NO. 556

THE CROCKETT NATIONAL FOREST

STATE OF ARIZONA

Chains

2.45
Arroyo, 10 lns. wide, 3 ft. deep, (dry), course S. 78° E.
Ascend 26 ft. over SW. slope.

3.71
Top of asc. Thence along rolling SE. slope, thru oak brush. End 3.85 & office has been made.

8.65
Trail, bears N. and S.

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

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

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:

- Tent house, 12 x 14 ft. the long sides extend-

- ing NE. and SW., the N. cor. of which bears

S. 77° Q6' W., 2.60 chs. dist, from Cor. No. 2.

- Value: $ 20.00

- Approx. 3/8 mile 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 McMillen Wash. The bottom land is a rich alluv-

- ium of good depth, and is well adapted for agricultural purposes. The area along the hillside 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.
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

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

Globe, Arizona, the nearest town, postoffice and railroad 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., R. 16 and 17 E., which location is found to be in error by reason of the erroneous projection of sec. lines, no provision having been made therein for fractional T. 3 N., R. 15-1/2 E.

<table>
<thead>
<tr>
<th>Course</th>
<th>Dist.</th>
<th>N.</th>
<th>S.</th>
<th>E.</th>
<th>W.</th>
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</thead>
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<td>S. 23° 50' E.</td>
<td>4.71</td>
<td>4.31</td>
<td>1.90</td>
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<td>S. 70° 56' W.</td>
<td>19.34</td>
<td>6.32</td>
<td>16.28</td>
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<tr>
<td>N. 15° 52' W.</td>
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<td>1.42</td>
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<tr>
<td>N. 72° 29' E.</td>
<td>16.68</td>
<td>5.62</td>
<td>17.61</td>
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<tr>
<td>47.91</td>
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<td>10.63</td>
<td>19.71</td>
<td>19.70</td>
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<tr>
<td>Error in Lat. and Dep.</td>
<td>10.60</td>
<td>19.70</td>
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<tr>
<td>Closing Error, 1:1515</td>
<td>.03</td>
<td>.01</td>
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<tr>
<td>Chains</td>
<td>TIE FROM COR. NO. 1 TO U.S. L.M.</td>
<td></td>
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<td>No. 578 H. E. S.</td>
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<td>STATE OF ARIZONA</td>
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<tr>
<td>Dist.</td>
<td>N.</td>
<td>S.</td>
<td>E.</td>
<td>W.</td>
<td></td>
</tr>
<tr>
<td>N. 2° 29' E.</td>
<td>9.22</td>
<td>9.21</td>
<td>6.47</td>
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<tr>
<td>N. 4° 02' W.</td>
<td>91.92</td>
<td>91.69</td>
<td>6.47</td>
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<tr>
<td></td>
<td>100.30</td>
<td>0.00</td>
<td>9.40</td>
<td>6.07</td>
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</tr>
</tbody>
</table>

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

Survey completed February 18, 1919.

Surveyor - Forest Service.
Chains

Computation Direct Solar Observation

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

Elevation about 4200 ft.

Latitude 33° 54' 13" N., Long. 110° 39' 16" W., from Forest Service Base mark.

Heading on reference mark, 191° 51'.

Telescope Pos. Time Sun Horizontal Angle Vertical Angle

Direct + 3h 46m 15s 55° 06' 15" 20° 05' 30"

Reversed - 3h 53m 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"

Means 3h 49m 07s 55° 54' 22" 19° 53' 00"

Refr. 02' 10"

Decl. 14° 26' 29" S. 00' 19° 50' 00"

Cos. Q = \frac{\sin 14° 26' 29"}{\cos 33° 54' 13" \times \cos 19° 50' 50" - \tan 32° 34' 15"}

log \sin 14° 26' 29" = 9.3968781

log \cos 33° 54' 13" = 9.9207535

log \cos 19° 50' 50" = 9.9754056

9.5027190 = log. .31821

log. tan. 33° 34' 13" = 9.8219397

log. tan. 19° 50' 50" = 9.8574612

9.3793909 = log. .23965

Cos. Q. = .55776

Q = 56° 05' 57"

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

HOMESTEAD ENTRY SURVEY NO. 556
CROOK NATIONAL FOREST
STATE OF ARIZONA

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

Reading on reference mark, 191° 51' 31.60"

Telescope Pos. Time: 03h 57m 42s.6 57° 06' 30" 17° 18' 46" 40' 00"

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

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

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

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

Decl. 14° 26' 20" S.

Cos. Q = sin. 14° 26' 20" - tan 33° 54' 13" x tan 17° 51' 51"

log. sin. 14° 26' 20" = 9.3963046

log. cos. 33° 54' 13" = 9.9207535

log. cos. 17° 51' 51" = 9.9785395

log. tan. 33° 54' 13" = 9.8219297

log. tan. 17° 51' 51" = 9.9098212

log. tan. 33° 54' 13" = 9.8219297

Q = 58° 06' 28"

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

Q = 58° 06' 28"

Bearing of reference mark is N. 12° 02' 21" E.
### Tabling and Calculations of Homestead Entry Survey No. 556, State of Arizona

<table>
<thead>
<tr>
<th>CORNERS</th>
<th>BEARING</th>
<th>DISTANCE</th>
<th>LATITUDES</th>
<th>DEPARTURES</th>
<th>DOUBLE M. D.</th>
<th>N. AREAS</th>
<th>S. AREAS</th>
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</thead>
<tbody>
<tr>
<td></td>
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<td>NORTH</td>
<td>SOUTH</td>
<td>EAST</td>
<td>WEST</td>
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<td>1 - 2</td>
<td>S 23-50 E.</td>
<td>4.71</td>
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<td>2 - 3</td>
<td>S. 70-56 W.</td>
<td>19.34</td>
<td>6.38</td>
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<td>21.13</td>
<td>133.12</td>
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<td>3 - 4</td>
<td>N. 15-55 W.</td>
<td>5.18</td>
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<tr>
<td>4 - 1</td>
<td>N. 72-29 E.</td>
<td>18.68</td>
<td>5.82</td>
<td>17.81</td>
<td>17.81</td>
<td>100.27</td>
<td></td>
</tr>
</tbody>
</table>

**Error in Lat. and Dep.**

03 01

**Closing Error 1:1515**

**TIE FROM COR. NO. 1, TO U. S. L. M. NO. 572, H. E. S.**

| N. 2-29 E. | 9.22 | 9.21 | 0.90 | 40 | 6.47 |
| N. 4-02 W. | 91.92 | 91.69 | 6.00 | 40 | 6.47 |

Table: Resultant course, N. 3° 26' 34" W., 101.08 chs.
**TABLEING AND CALCULATIONS OF HOMESTEAD ENTRY SURVEY NO. 556**, STATE OF **ARIZONA**

<table>
<thead>
<tr>
<th>CORNERS</th>
<th>DEARING</th>
<th>DISTANCE</th>
<th>LATITUDES</th>
<th></th>
<th>DEPARTURES</th>
<th></th>
<th>DOUBLE M. D.</th>
<th>N. AREAS</th>
<th>S. AREAS</th>
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</thead>
<tbody>
<tr>
<td></td>
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<td>Tie from Cor. No. 1</td>
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<td></td>
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<td>to 5-1/2 mile Cor.</td>
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<td>on W. bdy. White</td>
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<td>N.21°26' E.</td>
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<td>2.79</td>
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<td>S.59°54' E.</td>
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<td>24.21</td>
<td>41.76</td>
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<td>S.83°16' E.</td>
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<td>2.75</td>
<td>23.14</td>
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<tr>
<td>S.16°48' E.</td>
<td>7.94</td>
<td>7.50</td>
<td>2.29</td>
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<tr>
<td>S.22°19' E.</td>
<td>7.66</td>
<td>7.09</td>
<td>2.91</td>
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<tr>
<td>S.20°19' W.</td>
<td>2.85</td>
<td>2.32</td>
<td>1.94</td>
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<td></td>
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<td>60.39</td>
<td>159.55</td>
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<td>2.79</td>
<td>1.94</td>
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</tbody>
</table>

Resultant Course S. 69°55'21" E. 167.79
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

under his special instructions, dated February 15, 1923, having been critically examined, and the necessary corrections and explanations made, the said field notes, and the surveys they describe, are hereby approved.

Frank D. Yost

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. TROTTL

U. S. Surveyor General.