

2834

4-679

Book "J"

BOOK 2834

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FIELD NOTES

OF THE SURVEY OF ~~THE~~
PART OF THE

Subdivision Lines of T.1S. R.15 E.

Of the *Gila & Salt River Base & Meridian,*

In the State of *Arizona*

EXECUTED BY

Sidney E. Blout

In the capacity of U. S. Surveyor, under instructions dated *October 24*, 1913,

issued by the United States Surveyor General to govern surveys included in

Group No. *31*, which were approved by the Commissioner of the General Land

Office, *November 1*, 1913, pursuant to authority contained in the Act of

Congress dated *August 1*, 1914.

Survey commenced *August 29*, 1914.

Survey completed *October 2*, 1914.

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Book "J"

BOOK 2834

INDEX DIAGRAM.

Township *1 South* Range *15 East*

<i>Gila</i>		<i>&</i>		<i>Salt</i>		<i>River</i>		<i>Base</i>		<i>Line</i>	
6	25	5	22	4	18	3	13	2	7	1	
26		24		22		18		12		6	
7	24	8	24	9	17	10	11	11	5	12	
26		23		21		16		11		4	
18		17	20	16	16	15	10	14	3	13	
				19		15		9		3	
19		20		21	14	22	9	23	2	24	
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- Notes in Book "A"
- " " " " "B"
- Accepted Surveys.
- Unsurveyed

Partial Subdivision of Township 1 South, Range 15 East.

Chains.

Survey commenced August 29, 1914, and executed with a Young and Sons' light mountain transit No.10, described in Book "A"

I examine the adjustments of the transit, and correct the level and collimation errors; then, to test the solar apparatus by comparing its indications, resulting from solar observations made during a.m. and p.m. hours with a meridian determined by observations on Polaris, I proceed as follows:

At my camp, which is located in approximately the center of sec.13, T.1 S., R.15 E., on Pinal Creek; latitude, $33^{\circ} 20\frac{1}{2}' N.$; longitude $110^{\circ} 45' 16'' W.$; at 9h.02.4m. p.m., by my watch, which is correct local mean time, I observe Polaris at eastern elongation, and mark the direction thus determined by a tack driven in a stake set in the ground, 5.00 chs.north of my instrument.

August 29, 1914.

August 30: At 8h. a.m., I lay off the azimuth of Polaris $1^{\circ} 23'$ to the west, and mark the meridian thus determined by a tack driven in a stake set in the ground 5.00 chs.north of my instrument.

At 9h.01m. a.m., l.m.t., I set off $33^{\circ} 20\frac{1}{2}' N.$ on the lat.arc; $9^{\circ} 10'$ N. on the decl. arc, and determine a meridian with the solar, and mark a point thereof by a tack driven in the stake already set, 5.00 chs.N. of my instrument, on which the solar meridian falls 0.5 ins. east of the point determined by the Polaris observation.

At apparent noon, I set off $9^{\circ} 07'$ N. on the decl. arc, and observe the sun on the meridian, and obtain a reading of $33^{\circ} 20\frac{1}{2}' N.$ on the lat.arc.

At 3h.01m. p.m., l.m.t., I set off $33^{\circ} 20\frac{1}{2}' N.$ on the lat.arc; $9^{\circ} 04\frac{1}{2}' N.$ on the decl. arc; and determine a meridian with the solar, and mark a point thereof on the stake already set 5.00 chs. north of my instrument. This point falls 0.3 ins. west of the meridian established by the Polaris observation.

The solar apparatus by a.m. and p.m. observations defines positions for meridian respectively about $0' 30'' E.$ and $0' 16''$ west of the meridian established by the Polaris observation; therefore, I conclude that the adjustments of the instrument are satisfactory.

The magnetic bearing of the true meridian at 9 a.m. is $N. 14^{\circ} 50' W.$; the angle thus determined gives the magnetic decl. $14^{\circ} 50' E.$

I find from a personal examination of the land in this township that the southern and southwestern portions are rough, mountainous, covered with dense oak and manzanita brush undergrowth, unfit for agricultural purposes, and impractical to survey; therefore, in order to include only the agricultural portions of the township, I begin at the corner of secs.19,24,25, and 30, on the east boundary of township established by me, as described in Book "A." Latitude, $33^{\circ} 19' 04'' N.$; longitude, $110^{\circ} 44' 45'' W.$

August 30, 1914.

August 31, 1914: At 8h. 30m., a.m., l.m.t., I set off $33^{\circ} 19' N.$ on the lat.arc; $8^{\circ} 49' N.$ on the decl. arc, and determine a meridian with the solar at the cor. of secs.19,24, 25 and 30, above noted.

Thence I run,

Partial Subdivision of Township 1 South, Range 15 East. 3.

Chains.

76.40 Top of spur, brs. N.30°E. and S.30°W. Descend NW. slope.
 80.00 Set an iron post 3 ft. long, 2 ins. in diam., 24 ins. in the ground for cor. of secs. 13, 14, 23 and 24, marked on brass cap,
 T 1 S R 15 E in N., and
 1914 in S. half;
 S 14 in NW.,
 S 13 in NE.,
 S 24 in SE., and
 S 23 in SW. quadrant;
 raise a mound of stone 2 ft. base, 1½ ft. high, W. of cor. Pits impracticable.
 Land, rough mountains, drains to the NE.
 Spurs with steep slopes, covered with loose stone.
 Soil, stony clay loam, 4 to 8 ins. deep on stony clay subsoil.
 South 60 chs., with light growth bunch grass.
 North 20 chs. good growth bunch grass.
 No timber.

40.00 East, on a random line, bet. secs. 13 and 24.
 Set temp. ¼ sec. cor.
 80.04 Intersect east bdy. of Tp. 2 lks. south of the cor. of secs. 13, 18, 19 and 24, established by me, as described in Book "A."
 Thence I run,
 S. 89° 59' W., on a true line, bet. secs. 13 and 24.
 Descend NW. slope of spur, over stony mountainous land, through oak, catclaw and cactus undergrowth. Descend 50 ft. to
 4.00 Dry ravine, 20 lks. wide, course N. 30° E. Ascend SE. slope, 150 ft. to
 19.00 Top of spur, brs. NE. and SW. Descend 150 ft. to
 27.00 Bottom of canyon, course N. 20° E. Ascend 100 ft. to
 32.00 Top of spur, brs. N. 30° E. and S. 30° W. Descend 150 ft. to
 38.70 Bottom of canyon; cross dry ravine, 15 lks. wide, course N. 20° E. Ascend 150 ft. to
 40.02 Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in the ground for ¼ sec. cor., marked on brass cap,
 ¼ S 13 in N.,
 S 24, 1914 in S. half;
 and raise a mound of stone 2 ft. base, 1½ ft. high, north of cor. Pits impracticable.
 46.20 Top of spur, brs. N. 25° E. and S. 25° W. Descend abruptly into canyon.
 55.70 Dry ravine, 10 lks. wide, course N. 60° W. Ascend.
 58.00 Point of spur, brs. NW. and SE. Descend.
 62.70 Road from Globe to Ray, Arizona, brs. N. and S.
 63.00 Bottom of canyon, 300 ft. deep, course dry bed of Pinal Creek, course N. 30° E. Ascend 250 ft. to
 77.00 Top of spur, brs. N. 30° E., and S. 30° W. Descend.
 80.04 The cor. of secs. 13, 14, 23 and 24.
 Land, mountainous, drains to the NE. Spurs steep stony, washed on slopes.
 Soil, stony clay loam, 4 to 8 ins. deep on stony clay subsoil.
 Good growth bunch grass.
 No timber.
 Note: At this corner, I set off 8° 24' N. on the decl. and at noon, observe the sun on the meridian, the resulting latitude being 33° 20' N.

N. 0° 01' W., bet. secs. 13 and 14.

Descend steep NW. slope of spur over mountainous land,

Partial Subdivision of Township 1 South, Range 15 East.

Chains.

through oak and catclaw brush undergrowth.

6.00 Bottom of canyon, 150 ft. deep, cross dry ravine, 15 lks. wide, course N.30°E. Ascend 200 ft. to

17.45 Top of spur, brs.N.40°E. and S.40°W. Descend 200 ft. to

25.00 Bottom of canyon; cross dry bed of creek, 30 lks.wide, course N.60°E. Ascend 100 ft.

26.53 The southeast corner of frame house belongs to Chas.E. Rubottom.

27.65 Road from Globe, Arizona, to the Pinal Mountains, brs.N. 50°E. and S.50°W.

37.30 Point of spur, brs.NW. and SE. Descend NE. slope.

40.00 Set an iron post 3 ft.long, 1 in. in diam., 26 ins. in the ground for $\frac{1}{4}$ sec.cor., marked on brass cap, $\frac{1}{4}$ S 14 in W., S 13 in E., and 1914 in S.half; raise a mound of stone 2 ft. base, 1 $\frac{1}{2}$ ft. high, W.of cor. Pits impracticable.

From this cor., Cor.No.1 of H.E.S. No.110, which is identical with cor.No.2 of H.E.S.No.158, brs.S.1°55'E., 2.77 chs. dist. Descend 50 ft. to

42.90 Dry ravine, 10 lks.wide, course SE. Ascend 100 ft.

54.20 Wire fence, brs.N.50°W. and S.50°E.

55.50 Top of spur, brs.NE. and SW. Descend 100 ft. to

63.70 Dry ravine, 15 lks.wide, course N.70° E. Ascend 100 ft. to

70.10 Top of spur, brs.NE. and SW. Descend 50 ft. to

74.40 Dry ravine, 10 lks.wide, course east. Ascend 75 ft. to

78.00 Top of spur, brs.east and west. Descend north slope.

80.00 Set an iron post 3 ft.long, 2 ins. in diam., 24 ins. in the ground for cor.of secs.11,12,13 and 14, marked on brass cap, T 1 S R 15 E in N., and 1914 in S.half; S 11 in NW. S 12 in NE., S 13 in SE., and S 14 in SW. quadrant; raise a mound of stone 2 ft. base, 1 $\frac{1}{2}$ ft.high, west of cor. Pits impracticable.

Land, mountainous; spurs with steep rocky slopes. Soil of spurs, poor, dry, stony clay loam, 6 ins. deep on stony clay subsoil.

Soil, of the narrow bottoms of canyons, sandy loam, about 12 ins. deep on stony clay subsoil.

Good growth bunch grass.

No timber.

September 1, 1914.

September 2, 1914: At 7h.30m. a.m., l.m.t., I set off 33°21'N. on the lat.arc; 8°07'N. on the decl.arc; and determine a meridian with the solar at the cor.of secs.11,12,13 and 14.

Thence I run, N.89°59'E., on a random line, bet. secs.12 and 13.

40.00 Set temp. $\frac{1}{4}$ sec.cor.

79.96 Intersect the east bdy. of Tp., 3 lks.south of the cor. of secs. 7,12,13 and 18, established by me, as described in Book "A."

Thence I run, S.89°58'W., on a true line, bet. secs.12 and 13. Descend NW. slope of spur, over stony mountainous land through oak and catclaw brush undergrowth, into dry ravine.

3.21 Enter dry ravine, course N.80°W.; thence in ravine.

7.41 Leave ravine, over stony bottom land on south side of ravine.

19.66 Dry gulch, 20 lks.wide, 4 ft. deep, course north. Ascend

Partial Subdivision of Township 1 South, Range 15 East. 5.

Chains.

- 27.96 200 ft.to
 - 32.96 Top of spur, brs.NW. and SE. Descend abruptly.
 - 34.36 Foot of abrupt descent in canyon; leave mountainous land, brs.N.and S.; enter level, sandy bottom land.
 - 34.86 Road from Globe to Ray and Kelvin, Arizona, brs.N.and S.
 - 36.76 Wire fence brs.N.and S.; enter cultivated land, brs.N. and S.
 - 37.50 A point from which a frame house on John S.Shiffen's Forest Homestead brs.south 80 lks.dist.
 - 38.46 Leave cultivated land, brs.NW. and SE.; enter mesquite and catclaw brush, brs.NW. and SE.
 - 38.86 Cross Pinal Creek, dry, 40 lks.wide, course north.Leave level land, brs.N.and S.; enter rolling and mountainous land, brs. N.and S. Ascend 100 ft.
 - 39.33 Wire fence brs.N.and S.
 - 39.98 Old irrigating ditch, 4 lks.wide, course NE.
 - Set an iron post 3 ft.long, 1 in. in diam., 26 ins. in the ground, for $\frac{1}{4}$ sec.cor., marked on brass cap, $\frac{1}{4}$ S 12 in N., and S 13, 1914 in S.half; and raise a mound of stone 2 ft. base, 1 $\frac{1}{2}$ ft. high, north of cor. Pits impracticable.
 - From this corner, Cor.No.3 of the H.E.S.No.108 brs.N.36° 50'W., 9.23 chs. dist.
 - Cor.No.1 H.E.S. No.109, brs.N.34°29'E., 15.24 chs.dist.
 - Zee Hayes' house brs.N.9°W., about 18.50 chs.dist.
 - 75.66 Top of spur, 100 ft. above Pinal Creek, brs.N.80°E. and S.80°W. Descend NW. slope.
 - 79.96 The cor.of secs.11,12,13 and 14.
 - Land,level and mountainous, spurs steep, covered with loose stone.
 - Soil, poor, dry stony clay loam, about 8 ins. deep on dry hard clay subsoil.
 - Soil of the level bottom land along Pinal Creek is a medium rich dark sandy clay loam, about 18 ins. deep on gravelly clay subsoil.
 - Good growth bunch grass.
 - No timber.
-
- N.0°01'W., bet. secs.11 and 12.
 - Descend NW. slope of spur, over mountainous land,through scattering oak brush undergrowth 3 ft.high.
 - 5.00 Dry ravine, 20 lks.wide, 76 ft.below top of spur,course N.30°E. Ascend 50 ft.to
 - 8.00 Top of spur, brs.NE. and SW. Descend.
 - 12.15 Wire fence brs.E.and W.
 - 22.00 Dry ravine, 150 ft. below top of spur, course S.20°E. Ascend 150 ft.
 - 31.15 Wire fence brs.N.30° W. and S.30°E.
 - 35.00 Top of spur, brs.NE. and SW. Descend.
 - 40.00 The point for the $\frac{1}{4}$ sec.cor. falls in the bottom of dry ravine, 10 lks.wide, course NE., where natural causes would insure the destruction of the cor.; therefore, I continue my alinement and measurement, and at
 - 40.25 Set an iron post 3 ft.long, 1 in. in diam., 26 ins. in the ground for witness cor. to the $\frac{1}{4}$ sec.cor.,marked on brass cap,
W C $\frac{1}{4}$ S.of center,
1914 in S.half;
S 11 in NW. and
S 12 in NE. quadrant;
raise a mound of stone 2 ft.base, 1 $\frac{1}{2}$ ft. high, west of cor. Pits impracticable. Ascend 75 ft.
 - 45.90 Wire fence brs.N.70°E. and S.70°W.
 - 50.25 Top of spur, brs.NE. and SW. Descend 125 ft.to
 - 56.00 Dry ravine, course east; ascend.
 - 70.28 Wire fence brs.E.and W. on spur, brs.E.and W. Descend 100 ft.to

6. Partial Subdivision of Township 1 South, Range 15 East.

Chains.

73.75	Dry ravine, 15 lks.wide, course N.50°E. Ascend.
80.00	Set an iron post 3 ft.long, 2 ins. in diam., 24 ins. in the ground for cor.of secs. 1,2,11 and 12, marked on brass cap, T 1 S, R 15 E in N., and 1914 in S.half; S 2 in NW. S 1 in NE.; S 12 in SE.; and S 11 in SW.quadrant; raise a mound of stone 2 ft. base, 1½ ft. high, west of cor. Pits impracticable.
	Land, mountainous, spurs with gradual slopes covered with loose stone.
	Soil, dry, stony clay loam, about 4 to 8 ins.deep on dry clay subsoil.
	Good growth bunch grass.
	No timber.
	Chas. H.Thayer's house, brs.N.29½°E.
	George W. Graham's house brs.N.46°E.
	A.F.William's house brs.N.62°25'E.
	Henry Roster's house brs.S.66½°E. about 48.00 chs.dist.
	A Mexican shack brs.N.69½°E.
	Edward W. Hargett's house brs.N.87½°E.
	A slaughter house brs.S.78½°E.
	Note: At this corner, I set off 8°02'N. on the decl.arc; and at apparent noon, observe the sun on the meridian, and obtain a reading of 33° 22'N. on the lat.arc.

	N. 89° 58' E.on a random line, bet. secs. 1 and 12.
40.00	Set temp.¼ sec.cor.
80.00	Intersect the east bdy, of Tp., 25 lks.N.of the cor.of secs.1,6,7 and 12, established by me as described in Book "A."
	Thence I run, N.89°51'W., on a true line, bet. secs.1 and 12.
	Ascend SE. slope of spur,over mountainous land,through scattering greasewood brush undergrowth, 3 ft. high.
	Ascend 50 ft.to
9.00	Top of spur, brs.NW. and SE. Descend 40 ft.to
13.85	Dry ravine,10 lks.wide, course N.20°W. Ascend 75 ft.to
16.30	Top of spur, brs.NW. and SE. Descend 100 ft.to
22.80	Bottom of canyon; cross dry ravine, 20 lks.wide, course S.50°W. , Ascend 75 ft.to
27.94	Wire fence on top of spur, brs.N.and S. Descend abruptly into Pinal Creek.
30.30	Foot of abrupt descent; leave mountainous land, brs.N. and S.; enter sandy bottom land.
30.45	Enter cultivated land, brs.N.10°W. about 100 lks.,and S. 10°E. about 200 lks.
32.15	Center of dry bed of Pinal Creek, 40 lks.wide, course north. Ascend gradually over east slope.
33.75	Wire fence brs.N.and S. Leave cultivated land, brs.N. about 2.00 chs. and S. about 1.50 chs.dist.
34.00	Road from Globe to Ray and Kelvin, Arizona, brs.N.and S.
34.27	Wire fence brs.N.and S. Enter cultivated land, brs.north about 1.00 chain, and south about 2.00 chs1
37.80	Wire fence, brs.N.and S.; leave cultivated land, brs.N. 75 lks. and S. about 3.00 chs.dist.
38.55	Wire fence brs.N.50°E. and S.50°W.
40.00	Set an iron post 3 ft.long, 1 in. in diam., 26 ins. in the ground for ¼ sec.cor., marked on brass cap, ¼ S 1 in N., and S 12, 1914 in S.half; raise a mound of stone 2 ft. base, 1½ ft. high, N.of cor. Pits impracticable.

Partial Subdivision of Township 1 South, Range 15 East. 7.

Chains.

- From this corner, Cor. No. 3, of H.E.S. No. 105, brs. S. 23° 44' E., 7.45 chs. dist.; and cor. No. 2 of H.E.S. No. 66, which is identical with cor. No. 5 of H.E.S. No. 106 brs. S. 13° 07' E., 17.14 chs. dist.
- 40.85 The "Henley Terrace" brs. S. 12° 55' E. 13.50 chs. dist.
Dry ravine, 15 lks. wide, 10 ft. deep, course N. 70° E. Ascend 25 ft. to
- 52.55 Top of spur, brs. NE. and SW.; cross road from slaughter house to Globe, Arizona, brs. NE. and SW.
- 55.10 Telephone line from Slaughter House to Globe, Arizona, brs. N. 20° E. and S. 20° W.
- 61.00 Dry ravine, 10 lks. wide, course N. 30° E. Ascend 75 ft. to
- 67.70 Top of spur, brs. NE. and SW. Descend 125 ft. to
- 72.00 Dry ravine, 10 lks. wide, course N. 20° E. Ascend.
- 80.00 The cor. of secs. 1, 2, 11 and 12.
E. 30 and W. 40 chs. rolling mountains drains to the NE. Soil, dry stony clay loam on dry hard clay subsoil. Soil of the bottom lands along Pinal Creek, dark sandy loam, medium rich on gravelly clay subsoil. The mountainous portions of the mile covered with a good growth of bunch grass.
Timber, scattering sycamore and cottonwood along Pinal Creek bottom.
-
- N. 0° 01' W. on a true line, bet. secs. 1 and 2.
Descend NW. slope of spur, over stony, mountainous land. Descend 100 ft. to
- 13.65 Dry ravine, 10 lks. wide, course N. 40° E. Ascend 75 ft. to.
- 22.00 Top of spur, brs. N. 40° E. and S. 40° W. Descend.
- 35.40 A point from which,
Charles H. Thayer's house brs. N. 82° 05' E.
George W. Graham's house brs. S. 66° 18' E.
A. F. William's house, brs. S. 64³/₄° E.
Edward Hargett's house brs. S. 54° 02' E.
A slaughter house brs. S. 31° 51' E.
Lawrence R. Evans' house brs. N. 16° 35' E., about 24.00 chs.
Frank Gusman's house brs. N. 34¹/₂° E. about 18.00 chs.
A Mexican shack brs. S. 62° 10' E.
- 36.42 Wire fence brs. N. 30° E. and S. 30° W. on top of spur, brs. NE. and SW. Descend 250 ft. over NW. slope.
- 40.00 Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in the ground for ¹/₄ sec. cor., marked on brass cap, ¹/₄ S 2 in W., S 1 in E., and 1914 in S. half;
raise a mound of stone 2 ft. base, 1¹/₂ ft. high, west of cor. Pits impracticable.
- From this cor., Cor. No. 1 of H.E.S. No. 129, which is identical with cor. No. 3 of H.E.S. No. 98, brs. S. 0° 28' W., 2.64 chs. dist.
- Cor. No. 6 of H.E.S. No. 74 brs. S. 83° 11' E., 23.08 chs. dist.
Cor. No. 2 of H.E.S. No. 162, which is identical with cor. No. 4 of H.E.S. No. 159, brs. S. 84° 15' E., 26.25 chs. dist.
- 44.50 Wire fence, brs. N. 40° E. and S. 40° W.
- 45.50 Wire fence brs. N. 30° E. and S. 30° W.
- 46.00 Foot of descent in canyon; leave mountainous land, brs. NE. and SW.; enter level bottom land.
- 46.60 Cross dry bed of creek, 40 lks. wide, course N. 35° E.
- 46.80 Road from Globe, Arizona, to the Pinal Mountains brs. N. 50° E. and S. 50° W.
- 48.55 Enter cultivated land, brs. NE. and SW.; leave undergrowth.
- 50.00 A house on Forest Homestead No. 163 brs. west about 150 lks. dist.
- 53.80 Leave cultivated land, brs. NE. and SW. Ascend south slope, over stony hilly land.
- 56.85 Top of ridge, brs. NW. and SE. Descend 25 ft. to

8. Partial Subdivision of Township 1 South Range 15 East.

Chains.

- 58.60 Dry ravine, 10 lks.wide, course east; ascend.
 60.90 Intersect the Gila and Salt River Base Line, 5.34 chs. west of the standard cor.of Ts.1 N.,Rs.15 and 15½ E., which is a granite boulder 16x12x5 ins. above ground, firmly set, marked and witnessed as described by the Surveyor General.
 At point of intersection, set an iron post 3 ft.long, 2 ins. in diam., 24 ins. in the ground for closing cor. of secs.1 and 2, T.1 S., R.15 E., marked on brass cap,
 C C S. of center,
 T 1 N, R 15 E, R 15½ E, S 36, S 34 in N.,
 T 1 S, R 15 E, 1914 in S.half;
 S 1 in SE., and
 S 2 in SW.quadrant;
 raise a mound of stone 2 ft. base, 1½ ft.high, south of cor. Pits impracticable.
 Land,level and mountainous, drains to the NE.
 Spurs and ridges steep, covered with loose stone,
 Soil, stony, dry clay loam, about 8 ins.deep on stony clay subsoil.
 Good growth bunch grass.
 Soil of the bottomlands rich dark sandy loam,10 to 15 ins. deep on gravelly and clay subsoil.
 No timber.
 From the closing cor.,Cor.No.1 of H.E.S.No.99, which is identical with Cor.No.1 of H.E.S. No.163, and the standard cor. of Ts. 1 N., Rs.15 and 15½ E., brs.east 5.34 chs.dist.
 Cor.No.1 H.E.S. No.100 brs. east 9.84 chs.dist.
 September 21,1914.
-
- August 31, 1914: At 10h. 45m. a.m.,1.mt., I set off 33° 19' N. on the lat.arc; 8°47' N. on the decl.arc; and determine a meridian with the solar at the cor.of secs. 23, 24, 25 and 26.
 Thence I run,
 West, on a true line, bet. secs.23 and 26. Ascend NE. slope, 220 ft.to
 3.00 Descend.
 10.00 Ascend.
 17.00 Top of spur, brs.N.and S.
 Descend west slope, 100 ft.to
 20.80 Bottom of canyon; cross dry ravine, 20 lks.wide, course north. Ascend 75 ft.to
 23.70 Top of rockyspur brs.N.and S. Descend.
 40.00 Set an iron post 3 ft.long, 1 in. in diam., 26 ins. in the ground for ¼ sec.cor., marked on brass cap,
 ¼ S 23 in N., and
 S 26, 1914 in S.half;
 raise a mound of stone 2 ft.base, 1½ ft. high, north of cor. Pits impracticable. Descend 100 ft.
 Note: At this cor. I set off 8°45½' N. on the decl.arc, and at apparent noon observe the sun on the meridian, the resulting latitude being 33°19' N.
 41.15 Road from Globe to Ray and Kelvin, Arizona brs.N.10°E. and S.10°W.
 41.55 Foot of descent in canyon; cross dry bed of Pinal Creek course north. Ascend 250 ft.to
 52.70 Top of spur, brs.N.10°E. and S.10°W. Descend abruptly.
 57.60 Bottom of canyon, 175 ft.below top of spur; cross dry ravine, 15 lks.wide, course N.20°E.; ascend.
 65.50 Top of spur,150 ft. above ravine; brs.NE. and SW.; descend
 80.00 Set an iron post 3 ft.long, 2 ins. in diam., 24 ins. in the ground for cor.of secs. 22,23,26 and 27, marked on brass cap,
 T 1 S R 15 E in N.,and

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Chains.

- 1914 in S.half;
 S 22 in NW.,
 S 23 in NE.,
 S 26 in SE., and
 S 27 in SW.quadrant;
 raise a mound of stone 2 ft. base, 1½ ft. high, W.of
 cor. Pits impracticable.
 Land, mountainous, drains to the NE.; spurs with steep
 rocky slopes, covered with dense oak and manzanita
 brush;
 Soil, stony clay loam, worthless, 3 to 6 ins deep on
 clay subsoil.
 Very little bunch grass.
 No timber.
- August 31, 1914.
-
- September 3, 1914: At 8h. 00m. a.m., l.m.t., I set off
 33°19'N. on the lat.arc; 7°44'N. on the decl.arc;
 and determine a meridian with the solar at the cor.
 of secs. 22, 23, 26 and 27,
 Thence Iron,
 N.0°01'W., bet. secs.22 and 23.
 Over NW. slope of spur, through dense oak and manzanita
 brush 4 to 8 ft.high, over stony mountainous land;
 descend 400 ft.to
- 23.00 Bottom of canyon; cross Sixshooter Creek, 25 lks.wide,
 course N.20°E. Ascend 100 ft.to
- 30.90 Top of spur, brs,N.30° E. and S.30°W. Descend.
- 34.25 Bottom of canyon, cross dry ravine, 20 lks.wide, course
 N.30°W. Ascend 100 ft.to
- 35.00 Top of spur, brs.NE. and SW. Descend 40 ft.to
- 36.50 Bottom of canyon; cross dry ravine, 25 lks. wide, course
 N.40°E. Ascend.
- 40.00 Set an iron post 3 ft.long, 1 in. in diam., 26 ins. in
 the ground for ¼ sec.cor.,marked on brass cap,
 ¼ S 22 inW.,
 S 23 in E., and
 1914 in S.half;
 raise a mound of stone 2 ft. base, 1½ ft. high, west
 of cor. Pits impracticable.
- 43.10 Pack trail brs.N.40°E. and S.40°W.
- 48.80 Top of spur, brs. NE. and SW. Descend 125 ft.to
- 52.30 Bottom of dry ravine, 20 lks.wide, course east. Ascend
 250 ft.to
- 74.00 Top of spur, brs.NE. and SW. Descend.
- 80.00 Set an iron post 3 ft.long, 2 ins. in diam., 24 ins. in
 the ground for cor.of secs. 14,15,22 and 23 marked
 on brass cap,
 T 1 S, R 15 E in N.,and
 1914 in S.half;
 S 15 in NW.,
 S 14 in NE., and
 S 23 in SE., and
 S 22 in SW.quadrant;
 raise a mound of stone 2 ft.base, 1½ ft.high,west
 of cor. Pits impracticable.
 Land, mountainous, drains to the NE.
 Spurs with steep slopes, washed on slopes, stony, soil
 poor, dry, stony, clay loam, 6 to 12 ins. deep on
 stony clay subsoil.
 Good growth bunch grass.
 No timber.
-
- East, on a random line, bet. secs.14 and 23.
- 40.00 Set temp.¼ sec.cor.

10. Partial Subdivision of Township 1 South, Range 15 E.

Chains.

- 80.00 Intersect the cor. of secs. 13, 14, 23 and 24.
Thence I run,
West, on a true line, bet. secs. 14 and 23.
Over NW. slope of spur, over stony, mountainous land,
through greasewood and cactus undergrowth, 2 to 4 ft.
high. Descend 75 ft. to
- 3.75 Bottom of canyon; cross dry ravine 10 lks. wide, course NE.
Ascend 150 ft. to
- 18.45 Top of spur, brs. NE. and SW. Descend 200 ft. to
- 30.00 Bottom of canyon; cross dry ravine, 15 lks. wide, course
N. 20° E. Ascend 100 ft. to
- 36.60 Top of spur, brs. N. 30° E. and S. 30° W. Descend 250 ft.
- 40.00 Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in
the ground for $\frac{1}{4}$ sec. cor., marked on brass cap,
 $\frac{1}{4}$ S 14 in N., and
S 23, 1914 in S. half;
raise a mound of stone 2 ft. base, 1 $\frac{1}{2}$ ft. high, north
of corner, Pits impracticable.
- 47.50 Bottom of canyon; cross dry ravine 20 lks. wide, course
N. 35° E. Ascend 100 ft.
- 49.20 Road from Globe Arizona to the Pinal Mountains, brs.
N. 20° E. and S. 20° W.
- 76.90 Top of spur, brs. N. 40° E. and S. 40° W. Descend.
- 80.00 The cor. of secs. 14, 15, 22 and 23.
Land, mountainous, drains to the NE., spurs with steep
rocky slopes.
Soil, stony clay loam on dry clay subsoil.
Good growth bunch grass.
No timber.
- Note: At this cor., I set off 7° 40' N. on the decl. arc;
and at apparent noon, observe the sun on the meridian,
and obtain a reading of 33° 20' N. on the lat. arc.
-
- N. 0° 01' W., bet. secs. 14 and 15.
Descend NW. slope of spur, over mountainous land, through
greasewood brush and cactus undergrowth, 3 ft. high.
Descend 200 ft. to
- 23.00 Dry ravine, 10 lks. wide in canyon, course S. 50° W. Ascend
100 ft. to
- 35.00 Top of spur, brs. NE. and SW. Descend 300 ft.
- 40.00 Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in
the ground for $\frac{1}{4}$ sec. cor., marked on brass cap,
 $\frac{1}{4}$ S 15 in W.,
S 14 in E., and
1914 in S. half;
raise a mound of stone 2 ft. base, 1 $\frac{1}{2}$ ft. high, west
of cor. Pits impracticable.
- 46.70 Road from Globe, Arizona, to the Pinal Mountains, brs. N.
30° E. and S. 30° W.
- 48.80 Bottom of canyon; cross dry ravine, course N. 40° E. Ascend
100 ft.
- 57.70 Telephone line from Globe, Arizona, to the Pinal Forest
Ranger station, brs. NE. and SW.
- 57.75 Top of spur, brs. NE. and SW. Descend 75 ft. to
- 60.50 Dry ravine, 10 lks. wide, course N. 60° E. Ascend.
- 80.00 Set an iron post 3 ft. long, 2 ins. in diam., 24 ins. in
the ground for cor. of secs. 10, 11, 14 and 15, marked on
brass cap,
T 1 S R 15 E in N., and
1914 in S. half;
S 10 in NW.,
S 11 in NE.,
S 14 in SE., and
S 15 in SW. quadrant;
raise a mound of stone 2 ft. base, 1 $\frac{1}{2}$ ft. high, west
of cor. Pits impracticable.

Partial Subdivision of Township 1 South, Range 15 East. . 11.

Chains.

Land, mountainous, drains to the NE.
Soil, stony clay loam, 4 to 8 ins. deep on stony clay sub-
soil.
Good growth bunch grass.
No timber.

-
- 40.00 East, on a random line, bet. secs. 11 and 14.
 - 40.00 Set temp. $\frac{1}{4}$ sec. cor.
 - 80.04 Intersect N. and S. line 8 lks. north of the cor. of secs.
11, 12, 13 and 14.
 - Thence I run,
N. $89^{\circ}57'W.$ on a true line, bet. secs. 11 and 14.
 - Descend NW. slope of spur, over stony, mountainous land,
through greasewood and cactus, undergrowth, 2 to 4 ft.
high. Descend 75 ft. to
 - 6.30 Dry ravine, course N. $20^{\circ}E.$ Ascend 150 ft.
 - 22.60 Wire fence brs. N. and S.
 - 25.60 Top of spur, brs. NE. and SW. Thence over abrupt NW.
slope, covered with loose stone. Descend 250 ft.
 - 40.02 Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in
the ground, for $\frac{1}{4}$ sec. cor., marked on brass cap,
 $\frac{1}{4}$ S 11 in N., and
S 14 1914 in S. half;
raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high, north
of corner. Pits impracticable.
 - 45.00 Dry ravine, 20 lks. wide in canyon, course N. $10^{\circ}W.$ Ascend
100 ft. to
 - 52.20 Top of spur, brs. N. and S. Descend 200 ft.
 - 62.20 Road to the Pinal Mountains from Globe, Arizona, brs.
N. $20^{\circ}E.$ and S. $20^{\circ}W.$
 - 63.00 Bottom of canyon, cross dry bed of creek, 30 lks. wide,
course N. $20^{\circ}E.$ Ascend.
 - 66.57 Telephone line from Globe, Arizona to the Pinal Forest
Ranger station, brs. N. $30^{\circ}E.$ and S. $30^{\circ}W.$
 - 80.04 The cor. of secs. 10, 11, 14 and 15.
Land, mountainous, drains to the NE., spurs with steep
rocky slopes.
Soil, poor, dry stony loam, 4 to 8 ins. deep on dry stony
clay subsoil.
Good growth bunch grass.
No timber.

September 3, 1914.

-
- September 5, 1914. At 8h. 00m. a.m., l.m.t., I set off.
 $33^{\circ}21'N.$ on the lat. arc; $7^{\circ}00'N.$ on the decl. arc; and
determine a meridian with the solar at the cor. of
secs. 10, 11, 14 and 15.
 - Thence I run,
N. $0^{\circ}01'W.$, bet. secs. 10 and 11.
 - Ascend SE. slope, of spur, over stony, mountainous land,
through greasewood and cactus undergrowth. Ascend
40 ft. to
 - 4.80 Top of spur, brs. NE. and SW. Descend 300 ft. over steep
NW. slope.
 - 23.93 Road from Globe, Arizona to the Pinal Mountains, brs. N.
 $70^{\circ}E.$ and S. $70^{\circ}W.$
 - 30.70 Foot of descent in canyon, cross dry bed of creek, 25 lks.
wide, course east. Ascend 200 ft.
 - 40.00 Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in
the ground for $\frac{1}{4}$ sec. cor., marked on brass cap,
 $\frac{1}{4}$ S 10 in W.,
S 11 in E., and
1914 in S. half;
raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high, W. of
cor. Pits impracticable.

12. Partial Subdivision of Township 1 South, Range 15 East.

Chains.

- 43.60 Top of spur, brs. N.30°E. and S.30°W. Descend 250 ft. to
 64.00 Bottom of canyon; cross dry ravine, 15 lks. wide, course
 N.30°E. Ascend 100 ft. to
 70.00 Top of spur, brs. NE. and SW. Descend 160 ft. to
 72.00 Dry ravine, 30 lks. wide in canyon, course east; ascend.
 80.00 Set an iron post, 3 ft. long, 2 ins. in diam., 24 ins. in
 the ground for cor. of secs. 2, 3, 10 and 11, marked on
 brass cap
 T 1 S R 15 E in N., and
 1914 in S. half;
 S 3 in NW.,
 S 2 in NE.,
 S 11 in SE., and
 S 10 in SW. quadrant;
 raise a mound of stone 2 ft. base, 1½ ft. high, west
 of cor. Pits impracticable.
 Land, mountainous, drains to the NE.: spurs with steep
 slopes, covered with loose stone.
 Soil, poor, dry stony clay loam 4 to 8 ins. deep on stony
 clay subsoil.
 Good growth bunch grass.
 No timber.
-
- 40.00 S.89° 57' E. on a random line, bet. secs. 2 and 11.
 Set temp. ¼ sec. cor.
 80.05 Intersect N. and S. line, 5 lks. south of the cor. of secs.
 1, 2, 11 and 12.
 Thence I run,
 N.89°59'W., on a true line, bet. secs. 2 and 11.
 Descend NW. slope of spur, over stony, mountainous land,
 through greasewood, oak and cactus undergrowth, 2 to
 4 ft. high.
 3.35 Dry ravine, 10 lks. wide, course N.10°W. Ascend 50 ft.
 12.29 Wire fence brs. N.30°W. and S.30°E.
 13.00 Top of rocky spur, brs. NE. and SW. Descend 300 ft. over
 NW. slope.
 26.55 Wire fence brs. N. and S. Rebecca Howard's house brs. N.
 2.00 chs.
 27.23 Telephone line from Globe, Arizona, to the Pinal Forest
 Ranger station, brs. N.10°E. and S.10°W.
 28.15 Foot of abrupt descent in canyon; leave mountainous
 land, brs. N. and S.; enter level cultivated land.
 30.15 Wire fence, brs. N. and S.; leave cultivated land, brs. N.
 and S.
 30.25 Road from Globe, Arizona to the Pinal Mountains, brs. N.
 and S.
 31.95 Dry bed of creek 30 lks. wide, course N.10°E. Ascend.
 40.025 Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in
 the ground for ¼ sec. cor., marked on brass cap,
 ¼ S 2 in N., and
 S 11, 1914 in S. half;
 and raise a mound of stone 2 ft. base, 1½ ft. high, N.
 of cor. Pits impracticable.
 From this cor., Cor. No. 1 of H.E.S. No. 104 which is
 identical with cor. No. 4 of H.E.S. No. 103, brs. N. 64°
 36' E., 11.63 chs. dist.
 Cor. No. 2 of H.E.S. No. 107 brs. S. 21°30' E., 18.04 chs. dist.
 Thomas Halsall's house brs. S. 26½° E., 10.00 chs. dist.
 An adobe house brs. N. 38° E., 22.00 chs. dist.
 A frame house brs. N. 44½° E., 12 chs. dist.
 A frame house brs. N. 41½° E., about 30.00 chs. dist.
 Another frame house brs. N. 41½° E., about 40.00 chs. dist.
 Note: At this cor., I set off 6° 56' N. on the decl. arc;
 and at apparent noon, observe the sun on the meridian,
 and obtain a reading of 33° 22' N. on the lat. arc.
 Ascend 20 ft. to
 41.55 Top of spur, brs. NE. and SW. Descend 150 ft. to

Partial Subdivision of Township 1 South, Range 15 East. 13.

Chains.

- 61.55 Bottom of canyon; cross dry ravine, course N.10°E. Ascend 200 ft. to
 76.55 Top of spur, brs. NW. and SE. Descend 40 ft. to
 78.25 Dry ravine, course S.10°E. Ascend.
 80.05 The cor. of secs. 2, 3, 10 and 11.
 Land, level and mountainous, drains to the NE.
 Soil of the mountainous land, poor, dry stony clay loam, 4 to 8 ins. deep on stony clay subsoil.
 Good growth bunch grass.
 Soil of the level bottom lands, rich dark sandy loam on gravelly subsoil.
 Timber, scattering mesquite and sycamore in bottoms of canyons.

- N.0°01'W., on a true line, bet. secs. 2 and 3.
 Descend NE. slope of spur, over stony mountainous land, through greasewood and catclaw brush undergrowth, 2 ft. high. Descend 20 ft. to
 1.00 Dry ravine, 8 lks. wide, course S.10°E. Ascend 50 ft. to
 5.00 Top of spur, brs. NW. and SE. Descend 75 ft. to
 12.00 Dry ravine, 20 lks. wide, course S.60°E. Ascend 100 ft. to
 25.00 Top of spur, brs. NE. and SW. Descend 300 ft.
 40.00 Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in the ground for $\frac{1}{4}$ sec. cor., marked on brass cap,
 $\frac{1}{4}$ S 3 in W.,
 S 2 in E., and
 1914 in S. half;
 and raise a mound of stone 2 ft. base, 1 $\frac{1}{2}$ ft. high, west of cor. Pits impracticable.
 48.00 Bottom of canyon; cross dry ravine, 15 lks. wide, course N.40°E. Ascend.
 51.00 Top of spur, brs. NE. and SW. Descend.
 60.00 Dry ravine, 25 lks. wide, course S.30°E. Ascend.
 60.98 Intersect the Gila and Salt River Base line, 5.04 chs. west of the standard cor. of secs. 35 and 36, T.1 N., R.15 E., which is a granite stone 6x7x5 ins. above ground, firmly set, marked and witnessed, as described by the Surveyor General.
 At point of intersection, set an iron post, 3 ft. long, 2 ins. in diam., 24 ins. in the ground for closing corner of secs. 2 and 3, T.1 S., R.15 E., marked on brass cap,
 C C S of center,
 T 1 N, R 15 E, S 35, S 36 in N., and
 T 1 S, R 15 E, 1914 in S. half;
 S 2 in SE., and
 S 3 in SW. quadrant;
 raise a mound of stone 2 ft. base, 1 $\frac{1}{2}$ ft. high, south of cor. Pits impracticable.
 Land, mountainous, drains to the NE.; spurs, steep washed on slopes, rocky.
 Soil, poor, dry, stony clay loam, 6 ins. deep on stony clay subsoil.
 Good growth bunch grass.
 No timber.

September 5, 1914.

August 31, 1914: At 3h. 00m. p.m., l.m.t., I set off. 33°19' N. on the lat. arc; 8°43' N. on the decl. arc; and determine a meridian with the solar at the cor. of secs. 22, 23, 26 and 27.
 Thence I run,
 West, on a true line, bet. secs. 22 and 27.
 Descend NW. slope of spur, over stony, mountainous land

14. Partial Subdivision of Township 1 South Range 15 East

Chains.

- through dense oak and manzanita brush undergrowth, 4 to 8 ft. high. Descend 15 ft. to
- .40 Dry ravine, 6 lks. wide, course NW. Ascend 20 ft. to
- 1.50 Top of spur, hrs. NW. and SE. Descend.
- 17.40 Dry ravine, 30 lks. wide in canyon, course N. 30° E. Ascend.
- 38.50 Old road from Globe, Arizona, to the Pinal Mountains, hrs. N. 10° W. and S. 10° E.
- 40.00 Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in the ground for $\frac{1}{4}$ sec. cor., marked on brass cap,
 $\frac{1}{4}$ S 22 in N., and
 S 27, 1914 in S. half;
 raise a mound of stone 2 ft. base, 1 $\frac{1}{2}$ ft. high, north of cor. Pits impracticable. Ascend 250 ft. to
- 66.40 Top of ascent on point of spur, hrs. NE. and SW. Descend 100 ft. to
- 73.20 Dry ravine, course N. 30° W. Ascend.
- 80.00 Set an iron post, 3 ft. long, 2 ins. in diam., 24 ins. in the ground for cor. of secs. 21, 22, 27 and 28, marked on brass cap,
 T 1 S, R 15 E in N., and
 1914 in S. half;
 S 21 in NW.
 S 22 in NE.
 S 27 in SE.; and
 S 28 in SW. quadrant; and raise a mound of stone, 2 ft. base, 1 $\frac{1}{2}$ ft. high, west of cor. Pits impracticable.
- Land, mountainous, drains to the NE., spurs steep, stony, washed on slopes.
 Soil, poor, stony clay loam on clay and decomposing granite subsoil.
 Very little grass.
 Dense growth oak and manzanita brush.
 No timber.
- August 31, 1914.
-
- September 4, 1914: At 8h. 30m. a.m., l.m.t., I set off 33° 19' N. on the lat. arc; 7° 21 $\frac{1}{2}$ ' N. on the decl. arc; and determine a meridian with the solar at the cor. of secs. 21, 22, 27 and 28.
- Thence I run,
 N. 0° 02' W., bet. secs. 21 and 22.
 Descend NW. slope of spur, over stony, mountainous land, through dense oak and manzanita brush undergrowth, 4 to 6 ft. high. Descend 200 ft. to
- 15.00 Bottom of canyon; cross dry ravine, 20 lks. wide, course N. 50° E. Ascend.
- 15.90 Telephone line from Forest Ranger Station to the observation tower on the summit of the Pinal Mountains, hrs. N. 40° E. and S. 40° W.
- 16.40 Old log road from Globe to old sawmill in the Ice House Canyon on top of spur, hrs. N. 60° E. and S. 60° W. Descend.
- 40.00 Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in the ground for $\frac{1}{4}$ sec. cor., marked on brass cap,
 $\frac{1}{4}$ S 21 in W.,
 S 22 in E., and
 1914 in S. half;
 and raise a mound of stone 2 ft. base, 1 $\frac{1}{2}$ ft. high, west of cor. Pits impracticable.
- 50.20 Dry ravine, 15 lks. wide, course N. 40° E. Ascend 140 ft. to
- 53.90 Top of spur, hrs. NE. and SW. Descend 100 ft. to
- 58.50 Dry ravine, 20 lks. wide in bottom of canyon, course N. 70° W. Ascend 150 ft. to
- 71.00 Top of spur, hrs. NE. and SW. Descend.
- 78.00 Dry ravine, 10 lks. wide, course N. 50° E. Ascend.
- 80.00 Set an iron post, 3 ft. long, 2 ins. in diam., 24 ins. in the ground for cor. of secs. 15, 16, 21 and 22, marked on brass cap,

Partial Subdivision of Township 1 South, Range 15 East. 15.

Chains.

T 1 S, R 15 E in N., and
 1914 in S. half;
 S 16 in NW.,
 S 15 in NE.,
 S 22 in SE.; and
 S 21 in SW. quadrant;

and raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high,
 west of corner.

Pits impracticable.

Land, mountainous, drains to the NE., spurs with steep
 slopes, covered with loose stone.

Soil, poor, stony clay loam, 6 to 8 ins. deep on clay
 and decomposed granite subsoil.

Light growth bunch grass over north 40 chs.

Timber, scattering sycamore in bottom of canyons.

- East, on a random line, bet. secs. 15 and 22.
 40.00 Set temp. $\frac{1}{4}$ sec. cor.
 80.04 Intersect N. and S. line, 5 lks. north of the cor. of secs.
 14, 15, 22 and 23.
 Thence I run,
 N. $89^{\circ}58'W.$, on a true line, bet. secs. 15 and 22.
 Descend NW. slope of spur, over mountainous land, through
 greasewood and cactus undergrowth, 3 ft. high.
 Descend 50 ft. to
 5.40 Bottom of canyon; cross dry ravine, 10 lks. wide, course
 N. $10^{\circ}E.$ Ascend 75 ft. to
 17.50 Top of spur, brs. N. and S. Descend 275 ft. to
 27.65 Bottom of canyon; cross dry ravine, 30 lks. wide, course
 N. $30^{\circ}E.$ Ascend.
 27.90 Enter cultivated land, brs. N. and S.
 30.06 Leave cultivated land, brs. N. $10^{\circ}E.$ and S. $10^{\circ}W.$
 A tent house on Alva C. Belcher's Forest homestead, brs.
 south 3.50 chs. dist.
 30.86 Road from Globe to the Pinal Mountains, brs. N. $20^{\circ}E.$ and
 S. $20^{\circ}W.$ Ascend steep east slope.
 34.44 Telephone line from Globe to the Pinal Forest Ranger
 station.
 36.90 Top of spur, 100 ft. above bottom of canyon, brs. N. $40^{\circ}E.$
 and S. $40^{\circ}W.$ Descend.
 40.02 Set an iron post $\frac{3}{4}$ ft. long, 1 in. in diam., 26 ins. in
 the ground for $\frac{1}{4}$ sec. cor., marked on brass cap,
 $\frac{1}{4}$ S 15 in N., and
 S 22 1914 in S. half;
 and raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high, N.
 of cor. Pits impracticable.
 From this cor., Cor. No. 4 of H.E.S. No. 111 brs. N. $47^{\circ}49'$
 E., 9.90 chs. dist.
 The Pinal Forest Ranger Station, brs. S. $8^{\circ}20'W.$, 38.75 chs.
 dist. Descend 15 ft. to
 41.60 Dry ravine, 15 lks. wide, course N. $40^{\circ}E.$ Ascend 75 ft. to
 53.30 Top of spur, brs. N. $40^{\circ}E.$ and S. $40^{\circ}W.$ Descend 150 ft. to
 54.40 Bottom of canyon; cross dry ravine, 30 lks. wide, course
 N. $30^{\circ}E.$ Ascend 100 ft. to
 59.80 Top of spur, brs. N. $40^{\circ}E.$ and S. $40^{\circ}W.$ Descend 200 ft. to
 67.00 Bottom of canyon; cross dry ravine, 20 lks. wide, course
 N. $30^{\circ}E.$ Ascend.
 72.00 Top of spur, brs. NE. and SW. Descend.
 77.65 Dry ravine, 20 lks. wide, course N. $25^{\circ}E.$ Ascend.
 80.04 The cor. of secs. 15, 16, 21 and 22.
 Land, mountainous, drains to the NE., spurs steep, covered
 with loose stone.
 Soil, poor, dry sandy loam, 8 ins. deep on dry stony
 clay subsoil.
 Soil of the narrow bottom lands in canyons rich dry sandy
 loam, about 12 ins. deep, on stony and gravelly sub-
 soil.
 Good growth bunch grass.

16. Partial Subdivision of Township 1 South, Range 15 East.

Chains.

No timber.

Note: At this cor. I set off $7^{\circ}18'$ N. on the decl. arc; and at apparent noon, observe the sun on the meridian; and obtain a reading of $33^{\circ}20'$ N. on the lat. arc.

N. $0^{\circ}02'$ W., bet. secs. 15 and 16.

Ascend SE. slope of spur, over stony, mountainous land, through greasewood and cactus undergrowth, 3 ft. high; ascend 125 ft. to

12.00 Top of spur, brs. NE. and SW. Descend 50 ft. to

17.85 Dry ravine, 10 lks. wide, course N. 30° E. Ascend 150 ft. to

26.70 Top of spur, brs. NE. and SW. Descend.

37.40 Foot of steep descent in canyon; enter cultivated land, brs. NE. and SW.

40.00 Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in the ground for $\frac{1}{4}$ sec. cor., marked on brass cap,

$\frac{1}{4}$ S. 16 in W.,

S 15 in E., and

1914 in S. half; raise a mound of stone 2 ft.

base, $1\frac{1}{2}$ ft. high, W. of cor. Pits impracticable. ft. high, W.

From this point Frank Mark's house brs. S. $31^{\circ}11'$ W. 7.85 chs.

From this cor., Cor. No. 3 H.E.S. No. 128, which is identical with cor. No. 5 of H.E.S. No. 112, brs. N. $33^{\circ}33'$ W., 6.90 chs. dist.

40.80 Bottom of canyon, cross dry bed of creek, 30 lks. wide, course N. 40° E. Ascend 100 ft. over SE. slope.

43.35 Wire fence brs. NW. and SE.; leave cultivated land, brs. NW. and SE.

53.00 Top of spur, brs. NE. and SW. Descend abruptly, 60 ft. to

58.10 Bottom of canyon; cross dry ravine, 15 lks. wide, course N. 70° E. Ascend.

80.00 Set an iron post 3 ft. long, 2 ins. in diam., 24 ins. in the ground for cor. of secs. 9, 10, 15 and 16, marked on brass cap,

T 1 S, R 15 E in N., and

1914 in S. half;

S 10 in NE.,

S 15 in SE.,

S 16 in SW. and

S 9 in NW. quadrant; and raise a mound

of stone 2 ft. base, $1\frac{1}{2}$ ft. high, west of cor.

Pits impracticable.

Land, mountainous, drains to the NE.; spurs steep, covered with loose stone.

Soil, sandy and stony clay loam, varying in depth from 3 to 12 ins. on gravelly and stony clay subsoil.

Good growth bunch grass.

Timber, scattering mesquite and sycamore along bottom of canyons.

September 14, 1914.

September 9, 1914: At 8h. 28m., a.m., l.m.t. I set off $33^{\circ}21'$ N. on the lat. arc; $5^{\circ}30'$ N. on the decl. arc; and determine a meridian with the solar at the cor. of secs. 9, 10, 15 and 16.

Thence I run,

S. $89^{\circ}58'$ E., on a random line, bet. secs. 10 and 15.

40.00 Set temp. $\frac{1}{4}$ sec. cor.

80.00 Intersect N. and S. line, 12 lks. south of the cor. of secs. 10, 11, 14 and 15.

Thence I run,

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Chains.

S.89° 57'W., on a true line, bet. secs.10 and 15.
 Ascend SE. slope of spur, over mountainous land, through
 greasewood and mesquite brush undergrowth, 2 ft. high.
 Ascend 40 ft. to
 2.50 Top of spur, brs.NE. and SW. Descend 70 ft. to
 11.50 Dry ravine, course north. Ascend 150 ft. to
 23.00 Top of spur, hrs.NE. and SW. Descend abruptly into can-
 yon.
 35.90 Wire fence brs.N.30°E. and S.30°W.; enter cultivated
 bottom land in bottom of canyon.
 39.90 Wire fence brs.NE. and SW.; leave cultivated land, brs.
 NE. and SW.; enter sycamore and mesquite timber, brs.
 NE. and SW.
 40.00 The point for the $\frac{1}{4}$ sec.cor.falls in the dry bed of creek,
 40 lks.wide, course NE.; therefore, I continue my
 line and measurement.
 40.50 Leave creek bed and timber, brs.NE. and SW.; ascend SE.
 slope of spur.
 41.00 Set an iron post 3 ft.long, 1 in. in diam., 26 ins. in
 the ground for witness cor. to the $\frac{1}{4}$ sec.cor., marked
 on brass cap,
 W C $\frac{1}{4}$ E of center,
 1914 in S.half;
 S 10 in NW., and
 S 15 in SW.quadrant; from which,
 A sycamore, 24 ins. in diam., brs.N.73°E., 134
 lks.dist., marked $\frac{1}{4}$ S 10 BT.
 A sycamore, 20 ins. in diam., brs.S.53°E., 77
 lks.dist., marked $\frac{1}{4}$ S 15 B T. Forest
 From this corner, a house on Peter Osterman's homestead
 brs.S.72°E., 5.00 chs.dist. Ascend 75 ft.
 42.80 Road from Globe, Arizona, to the Pinal Mountains, brs.N.
 40° E., and S.40°W.
 47.60 Top of spur, brs. bears NW. and SE. Descend 40 ft. to
 50.10 Dry ravine, 20 lks.wide, course S. 70° E. Ascend.
 80.00 The cor.of secs. 9,10,15 and 16.
 Land, rough mountains, drains to the NE., spurs with
 steep slopes, rocky.
 Soil, poor dry stony clay loam, 8 ins. deep on stony
 clay subsoil.
 Soil of the creek bottoms rich sandy loam, 12 ins.deep
 gravelly subsoil.
 Good growth bunch grass.
 Timber, sycamore and mesquite.

N.0°02' W., bet. secs. 9 and 10.
 Ascend SE. slope of spur, over mountainous land, through
 greasewood and cactus undergrowth. Ascend 40 ft. to
 2.50 Top of spur, brs.NE. and SW. Descend, 75 ft. to
 12.90 Bottom of dry ravine, 60 lks.wide, course N.79° E. Ascend
 100 ft. to
 23.50 Top of spur, brs.NE. and SW. Descend 150 ft.
 36.31 Wire fence, brs. N.45° E. and S.45°W.
 37.10 State highway from Globe to Ray, Arizona, brs.N40°E. and
 S.40° W.
 40.00 Set an iron post 3 ft.long, 1 in. in diam., 26 ins. in
 the ground for $\frac{1}{4}$ sec.cor., marked on brass cap,
 $\frac{1}{4}$ S 9 in W.,
 S 10 in E., and
 1914 in S.half;
 and raise a mound of stone 2 ft. base, 1 $\frac{1}{2}$ ft. high,
 west of cor.
 Pits impracticable.
 Note: At this $\frac{1}{4}$ sec.cor., I set off 5°26' N. on the
 decl.arc; and at apparent noon, observe the sun on
 the meridian, the resulting lat.being 33°22'N.
 44.00 Dry ravine, 10 lks.wide, course N.50°E. Ascend.
 47.00 Top of spur, brs.NE. and SW. Descend 150 ft.

18. Partial Subdivision of Township 1 South, Range 15 East.

Chains.

- 52.95 Telephone line from Globe to Ray, Arizona, brs. N.20°E., and S.20°W.
- 62.10 Dry ravine, 20 lks. wide, course N.30°W. Ascend 200 ft. to
- 76.00 Top of spur, brs. NW. and SE. Descend 100 ft. to
- 79.00 Dry ravine, 10 lks. wide, course N.60°W. Ascend.
- 80.00 Set an iron post 3 ft. long, 2 ins. in diam., 24 ins. in the ground for cor. of secs. 3, 4, 9 and 10, marked on brass cap,
 T 1 S R 15 E in N., and
 1914 in S. half;
 S 4 in NW.,
 S 3 in NE.,
 S 10 in SE., and
 S 9 in SW. quadrant;
 raise a mound of stone 2 ft. base, 1½ ft. high, west of cor. Pits impracticable.
 Land, mountainous, drains to the NE.; spurs steep, rocky. Soil, poor stony clay loam, 6 ins. deep on clay subsoil. Good growth bunch grass.
 No timber.
-
- 40.00 N.89°57'E., on a random line, bet. secs. 3 and 10.
 Set temp. ¼ sec. cor.
- 80.04 Intersect N. and S. line, 14 lks. north of the cor. of secs. 2, 3, 10 and 11.
 Thence I run,
 N.89°57'W., on a true line, bet. secs. 3 and 10.
 Ascend NE. slope of spur, over mountainous land, through scattering greasewood brush.
 Ascend 40 ft. to
- 4.00 Top of spur, brs. NW. and SE. Descend.
- 26.00 Dry ravine, 20 lks. wide, course S.20°E. Ascend 200 ft. to
- 40.02 Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in the ground for ¼ sec. cor., marked on brass cap,
 ¼ S. 3 in N., and
 S 10, 1914 in S. half;
 and raise a mound of stone 2 ft. base, 1½ ft. high, north of cor. Pits impracticable.
- 40.50 Top of spur, brs. NE. and SW. Descend over NW. slope.
- 68.00 Dry ravine, 20 lks. wide, course NE. Ascend 300 ft.
- 71.59 Telephone line from Globe to Ray, Arizona, brs. N.30°E. and S 30°W.
- 74.28 Wire fence brs. N. and S.
- 74.84 Top of ridge, brs. NE. and SW., cross State road from Globe to Ray, Arizona, brs. N. and S. Descend abruptly over rocky west slope into canyon.
- 80.04 The cor. of secs. 3, 4, 9 and 10.
 Land, mountainous.
 Soil, poor, dry, stony clay loam, 4 to 12 ins. deep on stony clay subsoil.
 Good growth bunch grass.
 No timber.
- September 9, 1914.
-
- September 12, 1914: At 1h. 57m., p.m., 1.m.t., I set off 33°21½'N. on the lat. arc; 4°16'N. on the decl. arc; and determine a meridian with the solar at the cor. of secs. 3, 4, 9 and 10.
 Thence I run,
 N.0°02'W., on a true line, bet. secs. 3 and 4.
 Ascend south slope of spur, over stony mountainous land, through scattering greasewood brush undergrowth 3 ft. high. Ascend 150 ft. to
- 8.00 Top of spur, brs. NE. and SW. Descend.
- 18.55 Dry ravine, 10 lks. wide, course N.60°E. Ascend.

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Chains.

- 24.00 Top of spur, brs.NW. and SE. Descend 150 ft.to
30.75 Dry ravine, 50 lks.wide, course N.70°W. Ascend 200 ft.
40.00 Set an iron post 3 ft.long, 1 in.in diam., 26 ins. in
the ground for $\frac{1}{4}$ sec.cor., marked on brass cap,
 $\frac{1}{4}$ S 4 in W.,
S 3 in E., and
1914 in S.half;
and raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high,
west of cor. Pits impracticable.
- 43.75 Top of spur, brs.NW. and SE. Descend 50 ft.to
49.60 Dry ravine, 20 lks.wide in canyon, course N.60°W. Ascend
150 ft.to
- 57.50 Top of spur, brs.NW. and SE. Descend.
61.28 Intersect the Gila and Salt River Base Line, 5.48 chs.
N.89°51'W. of the standard cor.of secs.34 and 35, T.
1 N., R.15 E., which is a granite stone 14x12x8 ins.
above ground, firmly set, marked and witnessed as
described by the Surveyor General. X
At point of intersection, set an iron post 3 ft.long, 2
ins. in diam., 24 ins. in the ground for closing
corner of secs. 3 and 4, T.1 S., R.15 E., marked on
brass cap,
C C S. of center,
T 1 N R 15 E, S 34, S 35 in N., and
T 1 S, R 15 E, 1914 in S.half;
S 3 in SE., and
S 4 in SW.quadrant;
and raise a mound of stone 2 ft.base, $1\frac{1}{2}$ ft. high,
south of cor. Pits impracticable.
Land, mountainous; spurs with steep slopes washed, stony;
Soil, dry, stony clay loam, about 8 ins. deep on clay
subsoil.
Good growth bunch grass.
No timber.
- September 12, 1914.
-
- September 10, 1914: At 8h.57m., a.m., l.m.t., I set off
33°20'N. on the lat.arc; 5°07'N. on the decl.arc;
and determine a meridian with the solar at the cor.
of secs. 15, 16, 21 and 22.
Thence I run,
West, on a true line, bet. secs.16 and 21.
Ascend SE. slope of spur, over stony mountainous land,
through greasewood and catclaw brush undergrowth. As-
cend 60 ft.to
- 15.00 Top of spur, brs.NW. and SE. Descend. steep west slope
covered with dense oak and manzanita brush 6 ft.high.
Descend 250 ft.to
- 28.50 Dry ravine, 30 lks.wide, course N.20°W. Ascend 50 ft.
29.10 Old log road, brs.N.30°W. and S.30°E.
40.00 Set an iron post, 3 ft.long, 1 in. in diam., 26 ins. in
the ground for $\frac{1}{4}$ sec.cor., marked on brass cap,
 $\frac{1}{4}$ S 16 in N., and
S 21, 1914 in S.half;
and raise a mound of stone 2 ft.base, $1\frac{1}{2}$ ft.high, north
of cor. Pits impracticable.
- 47.25 Top of spur, brs.NE. and SW. Descend 75 ft.
53.10 Road to old mine, brs.N.40°E. and S.40°W.
53.20 A point from which a mine shaft brs.south 4.00 chs.dist.
60.45 Foot of descent in canyon; cross dry ravine, 30 fks.
wide, course NE. Ascend SE. slope.
- 69.85 Old road brs.N.40°E. and S.40°W., leads from Globe, Arizona,
to the Pinal Mountains.
- 80.00 Set an iron post 3 ft.long, 2 ins. in diam., 24 ins. in
the ground for cor.of secs.16, 17, 20 and 21, marked
on brass cap,
T 1 S, R 15 E in N., and
1914 in S.half;

20.0 Partial Subdivision of Township 1 South Range 15 E.

Chains.

- S 17 in NW.
S 16 in NE.;
S 21 in SE.; and
S 20 in SW. quadrant;
and raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor. Pits impracticable.
Land, mountainous, drains to the NE.; spurs steep rocky, washed on slopes.
Soil, poor stony clay loam, 3 to 10 ins. deep on stony clay subsoil.
Light growth bunch grass.
No timber.
- Note: At this cor., I set off $5^{\circ}04'N.$ on the decl. arc; and at apparent noon, observe the sun on the meridian; and obtain a reading of $33^{\circ}20\frac{1}{2}'N.$ on the lat. arc.
-
- N. $0^{\circ}02'W.$, bet. secs. 16 and 17.
Over stony, mountainous land, slopes to the SE., through oak brush undergrowth, 2 ft. high. Ascend 15 ft.
- .37 Wire fence brs. N. $30^{\circ}E.$ and S. $30^{\circ}W.$
- 4.40 Top of spur, brs. NE. and SW.; cross State road from Globe to Ray, Arizona, brs. N. $30^{\circ}E.$ and S. $30^{\circ}W.$ Descend 150 ft.
- 5.95 Telephone line from Globe to Ray, Arizona, brs. N. $30^{\circ}E.$ and S. $30^{\circ}W.$
- 18.00 Dry ravine, 10 lks. wide, course west. Ascend 100 ft. to
- 34.50 Top of rocky spur, brs. E. and W. Descend.
- 40.00 Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in the ground for $\frac{1}{4}$ sec. cor., marked on brass cap,
 $\frac{1}{4}$ S 17 in W.,
S 16 in E., and
1914 in S. half;
and raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high, west of cor, Pits impracticable. Descend 100 ft. to
- 44.75 Dry ravine, 16 lks. wide in bottom of canyon, course N. $10^{\circ}W.$ Ascend 150 ft. to
- 59.00 Top of spur, brs. NW. and SE. Descend abruptly 200 ft.
- 63.57 Wire fence brs. N. $50^{\circ}E.$ and S. $50^{\circ}W.$
- 65.40 Wire fence brs. E. and W.
- 70.70 Dry ravine, 20 lks. wide in bottom of canyon, 200 ft. deep, course N. $40^{\circ}E.$ Ascend.
- 73.00 Old road leads from Globe to the Pinal Mountains, brs. NE. and SW.
- 76.30 Wire fence brs. N. $60^{\circ}E.$ and S. $60^{\circ}W.$
- 80.00 Set an iron post 3 ft. long, 2 ins. in diam., 24 ins. in the ground for cor. of secs. 8, 9, 16 and 17, marked on brass cap,
T 1 S, R 15 E in N., and
1914 in S. half;
S 8 in NW.;
S 9 in NE.;
S 16 in SE.; and
S 17 in SW. quadrant;
and raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor, Pits impracticable,
Land, mountainous; spurs with steep slopes washed stony; soil, stony clay loam, 4 to 8 ins. deep on stony clay subsoil.
Good growth bunch grass.
Timber, scattering mesquite and sycamore in bottom of canyon, south of cor.
From this cor. cor., Cor. No. 1 H.E.S. No. 113 brs. S. $35^{\circ}36'W.$, 13.26 chs. dist.
Cor. No. 4 of H.E.S. No. 114 brs. S. $39^{\circ}41'W.$, 13.45 chs. dist.
A frame house on Chas. W. Sheppard's homestead brs. S. $32\frac{1}{2}^{\circ}W.$, 30.00 chs. dist. Sept. 10, 1914.

Partial Subdivision of Township 1 South, Range 15 East, 21.

Chains.

September 11, 1914: At 9h. 27m.; a.m., l.m.t., I set off 33°21' N. on the lat. arc; 4°43½' N. on the decl. arc, and determine a meridian with the solar at the corner of secs. 8, 9, 16 and 17.

Thence I run,
 East, on a random line, bet. secs. 9 and 16.
 40.00 Set temp. ¼ sec. cor.
 80.20 Intersect N. and S. line; 5 lks. south of the cor. of secs. 9, 10, 15 and 16.

Thence I run,
 S. 89°58' W., on a true line, bet. secs. 9 and 16.
 Ascend SE. slope of spur, over stony mountainous land, through greasewood brush undergrowth, 3 ft. high.
 3.00 Top of spur, brs. NE. and SW. Descend 75 ft. to
 16.40 Dry ravine, 15 lks. wide, course N. 20° E. Ascend.
 35.30 Telephone line from Globe to Ray, Arizona, brs. N. 20° E., and S. 20° W.
 36.60 Wire fence brs. N. 40° E. and S. 40° W.
 39.30 State road from Globe to Ray, Arizona, brs. N. 30° E. and S. 30° W.
 40.10 Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in the ground for ¼ sec. cor., marked on brass cap, ¼ S 9 in N., and S 16, 1914 in S. half;
 and raise a mound of stone 2 ft. base, 1½ ft. high, north of cor. Pits impracticable. Ascend 20 ft. to
 41.75 Top of spur, brs. NE. and SW. Wire fence brs. NE. and SW. Descend abrupt rocky NW. slope, covered with dense oak and manzanita brush, 6 ft. high. Descend 400 ft. to
 69.00 Bottom of canyon; cross dry bed of Russell Gulch 40 lks. wide, course N. 50° E. Ascend.
 72.65 Wire fence brs. N. 70° E. and S. 70° W.
 72.75 Old road brs. N. 50° E. and S. 60° W. leads from Globe, Arizona to the Pinal Mountains.
 80.20 The cor. of secs. 8, 9, 16 and 17.
 Land, rough mountains, drains to the NE.; spurs steep, washed on slopes stony.
 Soil, poor dry, stony clay loam, 6 ins. deep on stony clay subsoil.
 Good growth bunch grass.
 Timber, scattering mesquite and sycamore along bottom of canyon, east of the sec. cor.

N. 0° 02' W., bet. secs. 8 and 9.
 Ascend abrupt rocky SE. slope of spur, over mountainous land, through greasewood brush and cactus undergrowth, 3 ft. high. Ascend 300 ft. to
 12.00 Top of spur, brs. NE. and SW. Descend 400 ft. to
 35.60 Bottom of canyon, cross dry ravine, 25 lks. wide, course N. 20° E. Ascend 250 ft.
 40.00 Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in the ground for ¼ sec. cor., marked on brass cap, ¼ S 8 in W., 8 9 in E., and 1914 in S. half;
 raise a mound of stone 2 ft. base, 1½ ft. high, west of corner. Pits impracticable.

Note: Clouds obscure the sun at noon today, rendering an observation for latitude impossible.

September 11, 1914.
 September 12, 1914: At 7h. 57m. a.m., l.m.t., I set off 33°21' N. on the lat. arc; 4°22' N. on the decl. arc; and determine a meridian with the solar at this cor.
 Thence I continue my line and measurement,
 45.50 Top of spur, brs. NE. and SW. Descend 300 ft. to
 57.65 Foot of descent in canyon; cross dry ravine, 60 lks. wide.

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Chains.

80.00 course N.20°W. Ascend NW. slope.
Set an iron post, 3 ft. long, 2 ins. in diam., 24 ins. in the ground for cor. of secs. 4, 5, 8 and 9, marked on brass cap,
T 1 S, R 15 E in N., and
1914 in S. half;
S 5 in NW.,
S 4 in NE.,
S 9 in SE., and
S 8 in SW. quadrant;
and raise a mound of stone 2 ft. base, 1½ ft. high, west of cor. Pits impracticable.
Land, mountainous, drains to the NE.; spurs with steep rocky slopes, covered with dense undergrowth.
Soil, poor, stony clay loam, 6 ins. deep on clay subsoil.
Good growth bunch grass.
No timber.

40.00 N.89° 58'E., on a random line, bet. secs. 4 and 9.
Set temp. ¼ sec. cor.
80.30 Intersect the cor. of secs. 3, 4, 9 and 10.
Thence I run,
S.89°58'W., on a true line, bet. secs. 4 and 9.
Descend SW. slope of spur, over very stony, mountainous land, through oak brush undergrowth, 4 ft. high.
1.40 Dry drains, 25 ft. below cor., course N.60°W. Ascend 60 ft. to
4.00 Top of spur, brs. NW. and SE. Descend 100 ft. to
8.50 Bottom of canyon; cross dry bed of creek, course N.10°W. Ascend 300 ft. to
16.30 Top of rocky spur, brs. NE. and SW. Descend 400 ft. to
25.50 Bottom of canyon; cross dry bed of creek, 40 lks. wide, course N.60°E. Ascend 200 ft.
40.15 Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in the ground for ¼ sec. cor., marked on brass cap,
¼ S 4 in N., and
S 9, 1914 in S. half;
and raise a mound of stone 2 ft. base, 1½ ft. high, north of cor. Pits impracticable.
54.00 Top of spur, brs. NE. and SW. Descend 200 ft. to
62.50 Dry ravine in bottom of canyon, course N.10°E. Ascend 150 ft. to
71.67 Top of spur, brs. N. and S. Descend west slope.
80.30 The cor. of secs. 4, 5, 8 and 9.
Land, mountainous, drains to the NE.; spurs with steep rocky slopes.
Soil, dry, stony clay loam, 8 ins. deep on clay subsoil.
Good growth bunch grass.
No timber.

September 12, 1914.

September 16, 1914: At 8h. 55m. a.m., l.m.t., I set off 33°21½'N. on the lat. arc; 2°49'N. on the decl. arc; and determine a meridian with the solar at the cor. of secs. 4, 5, 8 and 9.
Thence I run,
N.0°02'W., on a true line, bet. secs. 4 and 5.
Ascend steep rocky SW. slope of spur, over mountainous land, through greasewood and cactus undergrowth, 2 ft. high. Ascend 50 ft. to
4.60 Top of spur, brs. NE. and SW. Descend 200 ft. to
24.60 Dry ravine, 20 lks. wide in canyon, course N.30°E.; ascend.
30.00 Top of spur, brs. NE. and SW. Descend 60 ft. to
36.40 Dry ravine, 30 lks. wide, course east; ascend.
40.00 Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in

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Chains.

the ground for 1/4 sec.cor., marked on brass cap,
1/4 S 5 in W.,
S 4 in E., and
1914 in S.half;
and raise a mound of stone 2 ft.base, 1 1/2 ft. high,W.
of cor. Pits impracticable.

Ascend 25 ft.to
48.30 Top of spur, brs.NE. and SW. Descend 200 ft.to
53.40 Dry ravine, 20 lks.wide in bottom of canyon, course S.
70°E.; ascend.

61.46 Intersect the Gila and Salt River Base Line, 6.95 chs.
N.89°26'W. of the standard cor.of secs.33 and 34,
T.1 N., R.15 E., which is a granite stone 8x6x4 ins.,
above ground, firmly set, marked and witnessed as
described by the Surveyor General.

At point of intersection, set an iron post 3 ft.long, 2
ins. in diam., 24 ins. in the ground for closing cor.
of secs.4 and 5, T 1 S R 15 E, marked on brass cap,
C C S of center,
T 1 N, R 15 E S 33 S 34 in N.,and
T 1 S R 15 E, 1914 in S.half;
S 4 in SE., and
S 5 in SW.quadrant;

and raise a mound of stone 2 ft. base, 1 1/2 ft.high south
of cor. Pits impracticable.

Land, mountainous, drains to the NE.; spurs with steep
rocky slopes, washed of soil.

Soil, stony clay loam, 2 to 6 ins. deep on stony clay
subsoil.

Good growth bunch grass.
No timber.

September 16, 1914.

September 15, 1914: At 8h. 26m., a.m., l.m.t., I set off
33°21'N. on the lat.arc; 3°12 1/2'N. on the decl.arc;
and determine a meridian with the solar at the cor.
of secs.8,9,16 and 17.

Thence I run,
West, on a true line, bet. secs.8 and 17.

Ascend steep rocky SE. slope of spur, over stony moun-
tainous land, through scattering greasewood and cactus
undergrowth, 2 to 4 ft.high. Ascend 300 ft.to

29.00 Top of ascent on spur, brs.NE. and SW. Descend 150 ft.
to

38.80 Bottom of canyon, cross dry ravine, 15 lks.wide, course
N.10°E. Ascend.

40.00 Set an iron post, 3 ft.long, 1 in. in diam., 26 ins. in
the ground for 1/4 sec.cor., marked on brass cap,
1/4 S 8 in N., and
S 17, 1914 in S.half;

and raise a mound of stone 2 ft.base, 1 1/2 ft. high,N.
of cor. Pits impracticable.

42.70 Top of spur, brs.NE. and SW. Descend 50 ft.to

48.60 Bottom of dry ravine, 20 lks.wide, course N.20°E. Ascend.

56.15 Top of spur, brs.NE. and SW. Descend 200 ft.to

65.50 Dry ravine, 15 lks.wide, course N. Ascend 75 ft.to

70.80 Top of spur, brs.N.and S. Descend 50 ft.to

73.70 Dry ravine, 10 lks.wide, course N.30°E. Ascend 80 ft.to

78.50 Top of spur, brs.NE. and SW. Descend.

80.00 Set an iron post, 3 ft.long, 2 ins. in diam., 24 ins.
in the ground for cor.of secs.7,8,17 and 18, marked
on brass cap,

T 1 S, R 15 E in N.,and
1914 in S.half;
S 7 in NW.,
S 8 in NE.,
S 17 in SE., and
S 18 in SW.quadrant;

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Chains

- and raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high, west of cor. Pits impracticable.
Land, mountainous, drains to the NE., spurs with steep slopes, covered with loose stone.
Soil, poor, stony clay loam, 4 to 8 ins. deep on stony clay subsoil.
Good growth bunch grass.
No timber.
-
- N.0°03'W., bet. secs. 7 and 8.
Descend NW. slope of spur, over stony, mountainous land, through oak and cactus undergrowth, 2 to 4 ft. high. Descend 200 ft. to
- 10.00 Bottom of canyon; cross dry ravine, 20 lks. wide, course N.10°E. Ascend 200 ft. to
- 20.50 Top of spur, brs. NE. and SW. Descend 300 ft.
- 40.00 Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in the ground for $\frac{1}{4}$ sec. cor., marked on brass cap,
 $\frac{1}{4}$ S 7 in W.,
 S 8 in E., and
 1914 in S. half;
 and raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high, west of cor. Pits impracticable.
- 54.75 Bottom of canyon, cross dry ravine, 25 lks. wide, course N.40°E. Ascend 50 ft. to
- 59.30 Top of spur, brs. NE. and SW. Descend 50 ft. to
- 61.40 Dry ravine, 20 lks. wide, course S.70°E. Ascend 200 ft. to
- 72.50 Top of spur, brs. NE. and SW. Descend.
- 80.00 Set an iron post, 3 ft. long, 2 ins. in diam., 24 ins. in the ground for cor. of secs. 5, 6, 7 and 8, marked on brass cap,
 T 1 S, R 15 E in N., and
 1914 in S. half;
 S 6 in NW.
 S 5 in NE.;
 S 8 in SE., and
 S 7 in SW. quadrant;
 and raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor. Pits impracticable.
 Land, mountainous, drains to the NE., spurs with steep rocky slopes, washed.
 Soil, stony clay loam on clay and stone subsoil.
 Good growth bunch grass.
 No timber.
-
- East, on a random line, bet. secs. 5 and 8.
- 40.00 Set temp. $\frac{1}{4}$ sec. cor.
- 79.82 Intersect N. and S. line, 5 lks. north of the cor. of secs. 4, 5, 8 and 9.
 Thence I run,
 N.89°58'W., on a true line, bet. secs. 5 and 8.
 Descend NW. slope of spur, over stony, mountainous land, through oak and greasewood brush undergrowth, 2 to 4 ft. high. Descend 150 ft. to
- 7.82 Foot of descent in canyon; cross dry ravine, 50 lks. wide, course N.; ascend 40 ft. to
- 8.32 Top of spur, brs. N. and S. Descend 150 ft. to
- 15.30 Dry ravine, 40 lks. wide, course N.50°E. Ascend 30 ft. to
- 17.80 Top of ascent on point of spur, brs. NW. and SE. Descend.
- 28.12 Dry ravine, 15 lks. wide, course S.60°E. Ascend.
- 28.80 Point of spur, brs. NE. and SW. Descend 100 ft. to
- 31.62 Dry ravine, 10 lks. wide, course N.60°E. Ascend 150 ft. to
- 36.00 Top of spur, brs. NE. and SW. Descend 200 ft.
- 39.91 Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in

Partial Subdivision of Township 1 South, Range 15 East, 25

Chains.

the ground for $\frac{1}{4}$ sec.cor., marked on brass cap,
 $\frac{1}{4}$ S 5 in N., and
 S 8, 1914 in S.half;
 and raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high,
 north of cor. Pits impracticable.

49.47 Bottom of canyon; cross dry ravine, 15 lks.wide, course
 north. Ascend 200 ft.to

58.32 Top of spur, brs.NE. and SW. Descend.

67.87 Dry ravine, 10 lks.wide, course N.50°E. Ascend 300 ft.to

76.00 Top of spur, brs.NE. and SW. Descend.

79.82 The cor.of secs.5,6,7 and 8.
 Land, mountainous, drains to the NE.; spurs steep,washed
 on slopes,rocky.
 Soil, poor, dry stony clay loam, 3 to 10 ins.deep on
 clay and stone subsoil.
 Good growth bunch grass.
 No timber.

September 15, 1914.

September 17, 1914: At 7h. 55m. a.m., l.m.t., I set off
 $33^{\circ}21\frac{1}{2}'N.$ on the lat.arc; $2^{\circ}27'N.$ on the decl.arc;
 and determine a meridian with the solar at the cor.
 of secs. 5,6,7 and 8.
 Thence I run,
 $N.0^{\circ}03'W.$, on a true line, bet. secs.5 and 6.
 Descend steep north slope of spur, over mountainous land,
 through greasewood brush undergrowth, 2 ft.high.

21.50 Dry ravine, 10 lks.wide, 250 ft. below cor., course west.
 Ascend 50 ft.to

25.00 Top of spur, brs.NW. and SE. Descend 200 ft.to

34.35 Bottom of canyon, cross dry ravine, 20 lks.wide, course
 $N.40^{\circ}E.$ Ascend.

40.00 Set an iron post 3 ft.long, 1 in. in diam., 26 ins. in
 the ground for $\frac{1}{4}$ sec.cor., marked on brass cap,
 $\frac{1}{4}$ S 6 in W.,
 S 5 in E., and
 1914 in S.half;
 and raise a mound of stone 2 ft.base, $1\frac{1}{2}$ ft. high,
 west of cor. Pits impracticable.
 This cor.is situated on top of spur, brs.NE. and SW. De-
 scend 75 ft.to

43.30 Dry ravine, course $S.70^{\circ}E.$ Ascend 125 ft.to

50.00 Top of spur, brs.NE. and SW. Descend 200 ft.to

60.00 Dry ravine, 20 lks.wide, course $N.70^{\circ}E.$ Ascend.

61.64 Intersect the Gila and Salt River Base Line, 7.55 chs.
 $N.89^{\circ}55'W.$ of the standard cor.of secs.32 and 33,
 T.1 N', R.15 E., which is a granite stone $8x6x4$ ins.
 above ground, firmly set, marked and witnessed as
 described by the Surveyor General.
 At point of intersection, set an iron post 3 ft.long,
 2 ins. in diam., 24 ins. in the ground, for closing
 corner of secs.5 and 6, T.1 S., R.15 E., marked on
 brass cap,
 C C S. of center,
 T 1 N, R 15 E S 32, S 33 in N., and
 T 1 S R 15 E 1914 in S.half;
 S 5 in SE. and
 S 6 in SW.quadrant;
 and raise a mound of stone 2 ft.base, $1\frac{1}{2}$ ft. high, S.
 of cor. Pits impracticable.
 Land, mountainous, drains to the NE.; spurs with steep
 slopes, covered with loose stone.
 Soil, stony clay loam, 6 ins. deep on clay subsoil.
 Good growth bunch grass,
 No timber,

September 17, 1914.

26. Partial Subdivision of Township 1 South Range 15 East.

Chains.

- October 5, 1914: At 8h. 49m., a.m., l.m.t., I set off $33^{\circ} 21' N.$ on the lat. arc; $4^{\circ} 33' S.$ on the decl. arc; and determine a meridian with the solar at the cor. of secs. 7, 8, 17 and 18.
- Thence I run,
West, on a random line, bet. secs. 7 and 18.
- 40.00 Set temp. $\frac{1}{4}$ sec. cor.
78.96 Intersect west bdy. of Tp., 21 lks. south of the cor. of secs. 7, 12, 13 and 18, established by me, as described in Book "A."
- Thence I run,
 $S. 89^{\circ} 51' E.$, on a true line, bet. secs. 7 and 18.
- Ascend NW. slope of granite spur, over mountainous land, through dense oak and manzanita brush 8 ft. high, and scattering oak timber. Ascend 20 ft. to
4.00 Top of spur, brs. NE and SW. Descend 200 ft. to
10.70 Bottom of canyon, cross rocky ravine, course $N. 10^{\circ} E.$. Ascend 150 ft. to
24.00 Top of granite spur, brs. NE and SW. Descend 150 ft.
38.96 The point for the $\frac{1}{4}$ sec. cor. falls on steep slope, where I am unable to establish a permanent cor.; therefore, at
38.40 Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in the ground for witness cor. to the $\frac{1}{4}$ sec. cor., marked on brass cap,
W C. $\frac{1}{4}$ E. of center;
1914 in S. half;
S 7 in NW., and
S 18 in SW. quadrant;
and raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high, N. of cor. Pits impracticable.
- 52.00 Foot of descent in canyon; cross rocky ravine, 20 lks. wide, course N. Ascend 100 ft. to
60.50 Top of spur, brs. NE and SW. Descend 200 ft. to
69.70 Bottom of canyon; cross dry ravine, 30 lks. wide, course $N. 30^{\circ} E.$ Ascend steeply.
78.96 The cor. of secs. 7, 8, 17 and 18.
Land, rough and mountainous, drains to the NE.; spurs with steep slopes, covered with loose boulders.
Soil, worthless, stony clay loam, and decomposed granite on stone and clay subsoil.
Light growth bunch grass.
Timber, scattering oak; dense undergrowth.
October 5, 1914.
-
- September 17, 1914: At 1h. 25m. p.m., l.m.t., I set off $33^{\circ} 21\frac{1}{2}' N.$ on the lat. arc; $2^{\circ} 21\frac{1}{2}' N.$ on the decl. arc; and determine a meridian with the solar at the cor. of secs. 5, 6, 7 and 8.
- Thence I run,
 $N. 89^{\circ} 51' W.$ on a random line, bet. secs. 6 and 7.
- 40.00 Set temp. $\frac{1}{4}$ sec. cor.
78.86 Intersect the west bdy. of Tp., 3 lks. south of the cor. of secs. 1, 6, 7 and 12, established by me, as described in Book "A."
- Thence I run,
 $S. 89^{\circ} 50' E.$, on a true line, bet. secs. 6 and 7.
- Ascend NE. slope of spur, over stony mountainous land, through greasewood brush undergrowth, 3 ft. high. Ascend 300 ft. to
20.60 Top of spur, brs. NE and SW. Descend 100 ft. to
25.46 Bottom of canyon; cross dry ravine, 15 lks. wide, course NE. Ascend 125 ft. to
31.96 Top of spur, brs. NE and SW. Descend 250 ft.
38.86 Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in the ground for $\frac{1}{4}$ sec. cor., marked on brass cap,
 $\frac{1}{4}$ S 6 in N., and
S 7, 1914 in S. half;
and raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high,

Partial Subdivision of Township 1 South, Range 15 East, 27.

Chains.

- 51.20 north of cor. Pits impracticable.
 - Bottom of canyon; cross dry ravine, 20 lks.wide, course north; ascend 75 ft.to
 - 53.36 Top of spur, brs.N.and S.; descend.
 - 54.86 Dry ravine, 8 lks.wide, course N.50°W. Ascend 150 ft.to
 - 66.85 Top of spur, brs.NE. and SW. Descend.
 - 73.86 Dry ravine, 15 lks.wide, course N.40°E. Ascend.
 - 78.86 The cor.of secs.5,6,7 and 8.
- Land, mountainous, drains to the NE.; spurs with steep slopes, washed, rocky.
 Soil, stony clay loam, 4 to 8 ins. deep on stone and clay subsoil.
 Good growth bunch grass.
 No timber.

September 17, and October 2, 1914.

GENERAL DESCRIPTION.

This township is rough and mountainous in its entirety, and the soil ranges from a medium rich sandy loam in the canyon bottoms to loose stone on the mountain side.

Pinal Mountain, which lies in the southern part of the township rises to an elevation of 7000 feet, and is covered with a dense growth of oak and manzanita brush, and scattering pine, oak and other kinds of timber, many of which are of merchantable size. From the summit of this mountain range spurs and deep canyons extend in a northeasterly direction across the township, diminishing in height and depth as they recede from the main range. There are several mines in the township, all of which are inoperative at the present time. Every available tract of land suitable for cultivation in the township is settled upon at the present time.

The township is poorly watered by springs and streams in the Icehouse and Sixshooter Canyons, which flow for a short time during the year.

There are about fifty settlers residing in the township at the present time.

Sidney E. Blout
U.S. Surveyor.

BOOK 2834

FINAL OATH OF UNITED STATES SURVEYOR.

I, Sidney E. Blout, U. S. Surveyor, do solemnly swear that, in pursuance of special instructions received from the U. S. Surveyor General for Arizona for Group 31 bearing date of the 24 th. day of October, 1913, I have well, faithfully, and truly, in my own proper person, and in strict conformity with said instructions, the Manual of Surveying Instructions, and the laws of the United States, surveyed all those parts or portions of the subdivision lines of T 1 S., R 15 E., and the retracement of the Gila and Salt River Base line through R. 15 E.

of the Gila and Salt River Base and Meridian, in the State of Arizona, which are represented in the foregoing field notes as having been executed by me, and under my direction; and I do further solemnly swear that all the corners of said survey have been established and perpetuated in strict accordance with the Manual of Surveying Instructions, and the special written instructions of the U. S. Surveyor General for Arizona for Group 31 and in the specific manner described in the field notes, and that the foregoing are the original field notes of such survey.

Sidney E. Blout
U. S. Surveyor.

Subscribed by said Sidney E. Blout and sworn to before me this 8th day of March, 1914

Frank A. Ingalls
Surveyor General of Arizona.



APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,
Phoenix Arizona Oct. 21, 1915

The foregoing field notes of the survey of part of the Subdivision Lines of Township 1 South Range 15 East of the Gila and Salt River Base and Meridian in the State of Arizona

executed by Sidney E. Blout, U.S. Surveyor under his special instructions dated October 24, 1913 for Group 31, having been critically examined, and the necessary corrections and explanations made, the said field notes, and the surveys they describe, are hereby approved.

Frank A. Ingalls
U.S. Surveyor General.
of Arizona.

I certify that the foregoing transcript of the field notes of the above described surveys in has been correctly copied from the original notes on file in this office.