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BOOK "F"

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BOOK 2656

FIELD NOTES

OF THE SURVEY OF THE

Subdivision lines of Tp. 21 S. R. 24 E.

Of the Gila and Salt River Base and Meridian,

In the State of Arizona

EXECUTED BY

John F. Hesse

In the capacity of U. S. Surveyor, under instructions dated September 19th, 1912, issued by the United States Surveyor General to govern surveys included in Group No. 18, which were approved by the Commissioner of the General Land Office, September 27th, 1912, pursuant to authority contained in the Act of Congress dated August 23rd, 1912.

Survey commenced February 21, 1913.

Survey completed March 7, 1913.

BOOK 2656

INDEX DIAGRAM.

Township 21 S, Range 24 E

6	25	5	18	4	14	3	9	2	5	1
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18	23	17	17	16	12	15	8	14	3	13
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Subdivision of T 21 S, R 24 E.

Chains.

Survey commenced February 21, 1913, and executed with a W. and L.E. Gurley transit with solar attachment, not numbered. The horizontal limb is provided with one double vernier, reading to single minutes of arc, which is also the least count of the verniers of the latitude and declination arcs.

The instrument was approved by the Supervising Surveyor, August 28, 1913.

I examine the adjustments of the transit and find them correct, 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 the S. end of the meridian, established by observations of Polaris, February 16, 1913, at my camp, I set off $31^{\circ} 36\frac{1}{2}'$ N on the lat. arc; $10^{\circ} 25'$ S. on the decl. arc, at 5h.00m. p.m., l.m.t. and determine with the solar a meridian and mark a point in this meridian by a cross on the stone already set 5 chs. N. of my station; this mark falls 0.3 ins. W. of the meridian determined by Polaris observations.

February 21, 1913.

February 22, 1913; At 7h.30m. a.m., l.m.t., I set off $31^{\circ} 36\frac{1}{2}'$ N on the lat. arc; $10^{\circ} 13'$ S on the decl. arc; and mark a point in the meridian determined by the solar by a cross on the stone already set 5 chs. N of my station this mark falls 0.3 ins. E. of the meridian established by Polaris observations.

The solar apparatus, by p.m. and a.m. observations, defines position for meridians, respectively about $0' 16''$ West and East of the meridian determined by the Polaris observations; therefore I conclude that the adjustments of the instrument are satisfactory.

February 23, 1913. At 8h.30m a.m., l.m.t. I set off $31^{\circ} 33'$ N on the lat. arc; $10^{\circ} 13'$ S on the decl. arc; and determine a meridian with the solar at the cor. of secs. 1, 2, 35 and 36 on S. bdy of T. 21 S., R. 24 E., recently established by me as described in Book "E"

Thence I run

N. $0^{\circ} 01'$ W, bet. secs. 35 and 36.

Over rolling country, through dense brush.

26.45

Cross road bears NE. and SW.

39.00

Set an iron post 3 ft. long, 1 in. in diam, 26 ins. in the ground, for witness cor. to $\frac{1}{4}$ sec. cor., marked on brass cap, WC $\frac{1}{4}$ in N half; S36 in SE. and S35 in SW. quadrant; from which

A hackberry 5 ins. in dia., bears N. $52\frac{1}{4}^{\circ}$ W, 44 lks. dist.; marked WC $\frac{1}{4}$ S35ET.

No other trees available.

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

40.00

Point for $\frac{1}{4}$ sec. cor. falls in wash, 35 lks. wide, course NE.

43.10

Cross wash, 30 lks. wide, course NE.

46.10

Cross wash, 25 lks. wide, course NE.

55.90

Cross wash, 10 lks. wide, course NE.

62.45

Cross road, bears NW. and SE.

64.70

Cross wash, 8 lks. wide, course SE.

80.00

Set an iron post 3 ft. long, 2 ins. in diam, 24 ins. in ground, for cor. of secs. 25, 26, 35 and 36, marked on brass cap, 1913;

T 21 S, R 24 E in N. half;

S 26 in NW,

S 25 in NE,

S 36 in SE. and

S 35 in SW. quadrant.

Subdivision of T 21 S, R 24 E.

Chains.

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

Land, rolling.

Soil, coarse sandy loam mixed with gravel, 3rd rate.

NO timber.

Undergrowth, mesquite, ocatilla.

East, on a random line, bet. secs. 25 and 36.

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

80.02 Intersect E. bdy. of Tp., 5 lks. N. of cor. of secs. 25, 30, 31 and 36, recently estab. by me & described in Book "E"
Thence I run

N $89^{\circ} 58' W$, on a true line, bet. secs 25 and 36.

Over slightly rolling country, through dense brush.

40.01 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 cap¹⁹¹³; $\frac{1}{4}$ S25 in N and S36 in S half.

Raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high, N. of cor. Pits impracticable.

80.02 The cor. of secs. 25, 26, 35 and 36, hereinbefore described
Land, slightly rolling.

Soil, coarse sandy loam mixed with gravel, 3rd rate.

No timber.

Undergrowth, mesquite, ocatilla, blackbrush.

N. $0^{\circ} 01' W$, bet. secs. 25 and 26.

Over slightly rolling country, through dense brush.

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 cap¹⁹¹³; $\frac{1}{4}$ S26 in W. and S25 in E. half.

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

80.00 Set an iron post 3 ft. long, 2 ins. in diam, 24 ins. in the ground, for cor. of secs. 23, 24, 25 and 26, marked on brass cap, 1913;

T21S, R24E in N. half;

S23 in NW.,

S24 in NE.,

S25 in SE. and

S26 in SW. quadrant.

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

Land, slightly rolling.

Soil, coarse dry sandy loam mixed with gravel, 3rd rate.

No timber.

Undergrowth, mesquite, ocatilla.

Note: ~~T21S, R24E, S23, S24, S25, S26~~ At this cor. I set off $10^{\circ} 10\frac{1}{2}' S$. on the decl. arc, and observe the sun on the meridian at noon; the resulting lat. is $31^{\circ} 34\frac{1}{2}' N$.

S. $89^{\circ} 58' E$, on a random line, bet. secs. 24 and 25.

40.00 Set temp. $\frac{1}{4}$ sec. cor., crossing the line between secs. 24 and 25.

80.08 Intersect E. bdy. of Tp., 7 lks. S. of cor. of secs. 19, 24, 25 and 30, recently estab. by me & described in Book "E"
Thence I run

S. $89^{\circ} 59' W$, on a true line, bet. secs. 24 and 25.

Over slightly rolling land, through scattering brush.

40.04 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 cap¹⁹¹³; $\frac{1}{4}$ S24 in N. and S25 in S. half.

Raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high, N. of cor. Pits impracticable.

80.08 The cor. of secs. 23, 24, 25 and 26, hereinbefore described
Land, slightly rolling.

Soil, coarse sandy loam, 3rd rate.

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Subdivision of T 21 S, R24E.

Chains	
	<p>No timber. Undergrowth, mesquite, ocatilla.</p> <p>-----</p> <p>N0°1'W, bet. secs, 23 and 24. Over slightly rolling country through scattering brush.</p> <p>19.00 Cross wash 15 lks. wide course NE.</p> <p>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 cap¹⁹¹³; S23 in W. and S 24 in E. half. Raise a mound of stone 2 ft. base, 1$\frac{1}{2}$ ft. high, W. of cor. Pits impracticable.</p> <p>54.00 Cross wash 25 lks. wide course NE.</p> <p>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 cap¹⁹¹³; T21SR24E in N. half; S14 in NW, S13 in NE, S24 in SE. and S23 in SW. quadrant. Raise a mound of stone 2 ft. base, 1$\frac{1}{2}$ ft. high, W. of cor. Pits impracticable.</p> <p>Land, rolling. Soil, dry sandy loam medium texture gravelly 2nd rate. No timber. Undergrowth, mesquite, ocatilla.</p> <p style="text-align: right;">February 23, 1913.</p> <p>-----</p> <p>February 23, 1913, At 7h.30m. a.m., 1.m.t., I set off 31° 35$\frac{1}{2}$'N. on the lat. arc; 9°51'S. on the decl. arc; and determine a meridian with the solar at the cor. of secs. 13, 14, 23 and 24, above described, Thence I run, N. 89°59'E., on a random line, bet. secs. 13 and 24.</p> <p>40.00 Set temp. $\frac{1}{4}$ sec. cor.</p> <p>79.98 Intersect E. bdy. of Tp., 5 lks. N. of cor. of secs. 13, 18, 19 and 24, recently estab. by me & described in Book "E" Thence I run N. 89°59'W., on a true line, bet. secs. 13 and 24. Over level land through scattering brush.</p> <p>39.20 Cross wash, 10 lks. wide course NE.</p> <p>39.99 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 cap¹⁹¹³; S13 in N. and S24 in S. half. Raise a mound of stone 2 ft. base, 1$\frac{1}{2}$ ft. high, N. of cor. Pits impracticable.</p> <p>79.98 The cor. of secs. 13, 14, 23 and 24, hereinbefore described Land, level. Soil, dry sandy loam medium texture some gravel 2nd rate. No timber. Undergrowth, mesquite, ocatilla.</p> <p>-----</p> <p>N 0°1'W bet secs. 13 and 14. Over level land through scattering brush.</p> <p>19.40 Telephone line bears NE and SW. Leave brush.</p> <p>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 cap¹⁹¹³; S14 in W and S13 in E half. Raise a mound of stone 2 ft. base, 1$\frac{1}{2}$ ft. high, W of cor. Pits impracticable.</p> <p>80.00 Set an iron post 3 ft. long, 2 ins. in dia., 24 ins. in the ground, for cor. of secs. 11, 12, 13 and 14, marked on brass cap¹⁹¹³; T21SR24E in N. half; S11 in NW, S12 in NE, S13 in SE. and</p>

Subdivision of T21S, R24E.

Chains.

S14 in SW. quadrant.

Raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor. Pits impracticable.House of Wm. A. Cowan bears N $43^{\circ}30'$ W.

Land, level.

Soil, rich sandy loam medium texture over 2 ft. deep, excepting 2 patches of alkaline adobe, 46 to 55 and 75 to 80 chs. 1st and 4th rate.

No timber.

Undergrowth, mesquite.

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- S. $89^{\circ}59'$ E., on a random line, bet. secs. 12 and 13.
- 40.00 Set temp. $\frac{1}{4}$ sec. cor.
- 80.04 Intersect E. bdy. of Tp., 5 lks. S. of the cor. of secs. 7, 12, 13 and 18, recently estab. by me & described in Book "E"
Thence I run
S. $89^{\circ}59'$ W., on a true line, bet. secs. 12 and 13,
Over level land.
- 18.50 Cross road bears NW and SE.
- 20.50 Cross wash 30 lks. wide course SE.
- 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 cap¹⁹¹³; S12 in N. and S13 in S. half.
Dig pits 18 x 18 x 12 ins., E. and W. of cor. 3 ft. dist.; and raise a mound of earth $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high, N. of cor.
- 61.77 Telephone line, bears NE. and SW.
- 80.04 The cor. of secs. 11, 12, 13 and 14, hereinbefore described
Land, level.
Soil, dry sandy loam medium texture over 2 ft. deep, excepting 42 to 78 chs alkaline adobe 1st and 4th rate.
No timber.
- Note: ~~February 22, 1913.~~ At this cor. I set off $9^{\circ}48\frac{1}{2}'$ S. on the decl. arc and observe the sun on the meridian at noon; the resulting lat. is $31^{\circ}36\frac{1}{2}'$ N.

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- N. $0^{\circ}1'$ W., bet. secs. 11 and 12.
Over level land.
- 27.30 Cross wash, 50 lks. wide, course SE.
- 39.60 Cross road, bears NW. and SE.
- 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 cap¹⁹¹³; S11 in W. and S12 in E. half.
Dig pits 18 x 18 x 12 ins., N. and S. of cor. 3 ft. dist.; and raise a mound of earth $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high, W. of cor.
- 55.40 Cross road, bears NW. and SE.
- 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, 1913;
T21SR24E in N. half;
S 2 in NW,
S 1 in NE,
S12 in SE. and
S11 in SW. quadrant.
Dig pits 18 x 18 x 12 ins., in each sec., $5\frac{1}{2}$ ft. dist.; and raise a mound of earth 4 ft. base, 2 ft. high, W. of cor.
- Land, level.
Soil, rich dry sandy loam over 2 ft. deep medium texture excepting 2.50 to 27.50 which is an alkaline adobe 1st and 4th rate.
No timber.
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BOOK 2656

Subdivision of T 21 S, R 24 E.

Chains	N. 89° 59' E, on a random line, bet. secs 1 and 12.
40.00	Set temp. $\frac{1}{4}$ sec. cor.
80.10	Intersect E. bdy. of Tp., 7 lks. S. of cor. of secs. 1, 6, 7 and 12, recently estab. by me & described in Book "E" Thence I run, S. 89° 56' W., on a true line, bet. secs. 1 and 12. Over nearly level country.
37.75	Telephone line, bears NE. and SW.
40.05	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 ¹⁹¹³ ; $\frac{1}{4}$ S1 in N. and S12 in S. half. Dig pits 18 x 18 x 12 ins., E. and W. of cor. 3 ft. dist.; raise a mound of earth 3 $\frac{1}{2}$ ft. base, 1 $\frac{1}{2}$ ft. high, N. of cor.
63.80	Cross wash, 20 lks. wide, course SE.
80.10	The cor. of secs. 1, 2, 11 and 12, hereinbefore described Land, level. Soil, rich sandy loam medium texture, 1st rate. No timber or undergrowth.

	N. 0° 1' W., bet. secs. 1 and 2. Over level country.
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 ¹⁹¹³ ; $\frac{1}{4}$ S2 in W. and S1 in E. half. Dig pits 18 x 18 x 12 ins., N and S of cor. 3 ft. dist.; raise a mound of earth 3 $\frac{1}{2}$ ft. base, 1 $\frac{1}{2}$ ft. high, W. of cor.
44.30	Cross road bears E. 21° 21'
85.76	Intersect the Fourth Standard Parallel South, 16.22 chs. N. 89° 44' W. of $\frac{1}{4}$ sec. cor. of sec. 35 T20S, R24E, which is an iron post ^{with brass cap} marked and witnessed as described by the Surveyor General. Set an iron post 3 ft. long, 2 ins. in diam, 24 ins. in the ground, for closing corner of secs. 1 and 2, marked on brass cap, 1913; CC S. of center T20S, R24E, S34, S35 in N. half; S1 in SE. and S2 in SW. quadrant; Dig pits 24 x 18 x 12 ins. crosswise on each line, E. and W., 3 ft., and S. of cor. 7 ft. dist.; raise a mound of earth 4 ft. base, 2 ft. high, S. of cor. Land, level. Soil, rich dry sandy loam medium texture over 2 ft. deep, 1st rate. No timber or undergrowth.
February 23, 1913.	

	February 24, 1913, At 7h.30m a.m., l.m.t., I set off. 31° 33' N. on the lat. arc; 19° 29' S. on the decl arc; and with the solar determine a meridian at the cor. of secs. 2, 3, 34 and 35 on the S. bdy. of Tp. recently established by me as described in Book "E" Thence I run, N. 0° 1' W., bet. secs. 34 and 35. Over mountainous country through dense brush. Descend.
18.90	Cross wash, 10 lks. wide, course NE. Ascend.
18.20	Top of ridge, bears NE. and SW. Descend.
29.90	Cross drain, 10 lks. wide, course 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 ¹⁹¹³ ; $\frac{1}{4}$ S34 in W. and S35 in E half. Raise a mound of stone 2 ft. base, 1 $\frac{1}{2}$ ft. high, W. of cor. Pits impracticable.
47.20	Top of ridge, bears NW. and SE. Descend.

Subdivision of T21S, R24E.

Chains.	
80.00	Point for sec. cor. falls in wash, 50 lks. wide, course NE. Land, mountainous. Soil, rocky, 4th rate. No timber. Undergrowth, cacti, ocatilla, blackbrush.

40.00	East, on a random line bet secs. 26 and 35, from cor. point, Set temp. $\frac{1}{4}$ sec. cor.
80.08	Intersect N. and S. line, 7 lks. N. of cor. of secs. 25, 26, 35 and 36, hereinbefore described, Thence I run, N. 89° 57' W., on a true line, bet. secs. 26 and 35. Over rolling country through dense brush.
15.05	Cross road, bears NW. and SE.
40.04	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 ¹⁹¹³ $\frac{1}{4}$ S26 in N. and S35 in S. half. Raise a mound of stone 2 ft. base, 1 $\frac{1}{2}$ ft. high, N. of cor. Pits impracticable.
53.00	Leave rolling land and enter mountainous country. Ascend.
55.00	Telephone line, bears NE. and SW.
68.20	Top of ridge, bears NE. and SW. Descend. along N slope.
80.08	The cor. point of secs. 26, 27, 34 and 35, in wash. Land, rolling and mountainous. Soil, sandy loam and rocky, 3rd and 4th rate. No timber. Undergrowth, mesquite, cacti, blackbrush.
Note:	----- At this cor. I set off 9° 26 $\frac{1}{2}$ ' S. on the decl. arc; and observe the sun on the meridian at noon; the resulting lat. is 31° 33 $\frac{1}{2}$ ' N.

2.00	From true point for cor. of secs. 26, 27, 34 & 35, I run N. 0° 1' W., bet. secs. 26 and 27. Over mountainous country through dense brush. Descend. Set an iron post 3 ft. long, 2 ins. in diam, 24 ins. in the ground, for witness cor. to cor. of secs. 26, 27, 34 and 35, marked on brass cap, 1913; WC N. of center T21S, R24E in N. half; S27 in NW, S26 in NE, S35 in SE. and S34 in SW. quadrant. Raise a mound of stone 2 ft. base, 1 $\frac{1}{2}$ ft. high, W. of cor. Pits impracticable.
12.70	Cross wash, 12 lks. wide, course SE. 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 ¹⁹¹³ $\frac{1}{4}$ S27 in W. and S26 in E. half; Raise a mound of stone 2 ft. base, 1 $\frac{1}{2}$ ft. high, W. of cor. Pits impracticable.
48.60	Top of ridge, bears NW. and SE. Descend.
52.10	Cross wash, 8 lks. wide, course E. Ascend.
58.50	Top of ridge, bears E. and W. Descend.
69.00	Cross drain, 6 lks. wide, course NE. Ascend.
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, 1913; T21S, R24E in N. half; S22 in NW, S23 in NE, S26 in SE. and S27 in SW. quadrant. Raise a mound of stone 2 ft. base, 1 $\frac{1}{2}$ ft. high, W. of cor. Pits impracticable.
	Land, mountainous. Soil, rocky, 4th rate. No timber. Undergrowth, mesquite, cacti, ocatilla.

Subdivision of T21S, R24E.

Chains.

S. $89^{\circ} 57' E$, on a random line, bet. secs. 23 and 26.

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

80.12 Intersect N. and S. line, 9 lks. S. of cor. of secs. 23, 24, 25 and 26, hereinbefore described,
Thence I run,
S $89^{\circ} 59' W$, on a true line, bet. secs. 23 and 26.
Over rolling country through scattering brush.

15.00 Cross wash, 18 lks. wide, course NE.

26.30 Cross wash, 12 lks. wide, course NE.

29.35 Cross road, bears NW. and SE.

29.95 Telephone line, bears NE. and SW.

33.00 Cross wash, 6 lks. wide, course NE.

40.06 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 cap¹⁹¹³; $\frac{1}{4}$ S23 in N. and S26 in S. half.
Raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high, N. of cor.
Pits impracticable.

48.00 Cross wash, 20 lks. wide, course NE. Leave rolling land and ascend mountainous land.

80.12 The cor. of secs. 22, 23, 26 and 27, hereinbefore described
Land rolling and mountainous.
Soil, coarse sandy loam and rocky, 3rd and 4th rate.
No timber.
Undergrowth, mesquite, ocatilla.

February 24, 1913.

February 26, 1913. At 7h.30m, a.m., l.m.t., I set off,
31 $\frac{1}{2}$ 34 $\frac{1}{2}$ ' N. on the lat. arc; 8 $\frac{1}{2}$ 44 $\frac{1}{2}$ ' S. on the decl. arc; and
determine a meridian with the solar at the cor. of secs.
22, 23, 26 and 27; hereinbefore described,

Thence I run,
N. $0^{\circ} 1' W$, bet. secs. 22 and 23.
Ascend over mountainous country through dense brush.

3.00 Top of ridge, bears NE. and SW. Descend, along steep rocky NW 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 cap¹⁹¹³; $\frac{1}{4}$ S22 in W. and S23 in E. half.
Raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor. Pits impracticable.

46.40 Leave mountainous country, and enter rolling land.

57.50 Cross wash, 20 lks. wide, course SE.

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, 1913;
T21S R24E in N. half;
S15 in NW,
S14 in NE,
S23 in SE. and
S22 in SW. quadrant.
Raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor. Pits impracticable.

Land, mountainous and rolling.
Soil, dry sandy loam mixed with gravel and rocky, 3rd and 4th rate.
No timber.
Undergrowth, ocatilla and mesquite.

N. $89^{\circ} 59' E$, on a random line, bet. secs 14 and 23.

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

80.02 Intersect the N. and S. line, 9 lks. N. of the cor. of secs. 13, 14, 23 and 24, hereinbefore described,
Thence I run,
N. $89^{\circ} 57' W$ on a true line bet secs. 14 and 23.
Over rolling country through scattering brush.

5.80 Telephone line, bears NE. and SW.

22.20 Cross road, bears NE. and SW.

26.80 Cross road, bears NE. and SW.

Subdivision of T21S R24E.

- Chains.
- 40.01 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 cap¹⁹¹³ S14 in N. and S23. in S. half.
Dig pits 18 x 18 x 12 ins., E. and W. of cor. 3 ft. dist.; raise a mound of earth 3 $\frac{1}{2}$ ft. base, 1 $\frac{1}{2}$ ft. N. of cor.
- 80.02 The cor. of secs. 14, 15, 22 and 23, hereinbefore described
Land rolling.
Soil dry sandy loam medium texture over 2 ft. deep, 1st rate.
No timber.
Undergrowth, mesquite.
-
- N. 0° 1' W., bet. secs. 14 and 15.
Over rolling country through dense brush.
- 19.95 Cross wash, 6 lks. wide, course NE.
- 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 cap¹⁹¹³ S15 in W. and S14 in E. half.
Raise a mound of stone 2 ft. base, 1 $\frac{1}{2}$ ft. high, W. of cor. Pits impracticable.
- 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, 1913;
T21S R24E in N. half;
S10 in NW,
S11 in NE,
S14 in SE. and
S15 in SW. quadrant.
Dig pits 18 x 18 x 12 ins. in each sec. 5 $\frac{1}{2}$ ft. dist; and raise a mound of earth 4 ft. base, 2 ft. high W. of cor.
Land, rolling.
Soil, sandy loam of coarse and medium texture, 2nd and 3rd rate.
No timber.
Undergrowth, mesquite, ocatilla, cacti.
-
- S. 89° 57' E., 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, 7 lks. S. of cor. of secs. 11, 12, 13 and 14., hereinbefore described,
Thence I run,
West, on a true line, bet. secs. 11 and 14.
Over rolling land through dense brush.
- 7.00 Leave adobe land.
- 16.60 Cross road, bears NW. and SE.
- 28.10 Cross wash, 12 lks. wide, course SE.
- 32.85 Cross road, bears NW. and SE.
- 37.50 Leave rolling land ascend in mountainous country.
- 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 cap¹⁹¹³ S11 in N. and S14 in S. half.
Raise a mound of stone 2 ft. base, 1 $\frac{1}{2}$ ft. high, N. of cor. Pits impracticable.
- 42.50 Top of ridge, bears NW. and SE. Descend.
- 51.00 Foot of ridge, leave mountains and enter rolling land.
- 80.04 The cor. of secs. 10, 11, 14 and 15., hereinbefore described
Land, rolling and mountainous.
Soil, first 7 chs. alkaline adobe, 37.50 to 51.00 rocky, the remainder dry sandy loam over 2 ft. deep, 1st and 4th rate.
No timber.
Undergrowth, cacti, ocatilla, mesquite.
- Note: Cloudy at noon, impracticable to make latitude observation.
-

BOOK 2656

Subdivision of T21S R24E.

Chains.

- N. 0°1'W, bet. secs. 10 and 11.
Over level country through scattering brush.
- 14.10 Cross road, bears NE. and SW.
31.12 House of Wm. A. Cowan, bears N61°58'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 cap¹⁹¹³; $\frac{1}{4}$ S10 in W, and S11 in E. half.
Dig pits 18 x 18 x 12 ins., N. and S. of cor. 3 ft. dist.; and raise a mound of earth 3 $\frac{1}{2}$ ft. base, 1 $\frac{1}{2}$ ft. high, W. of cor;
- 45.00 Leave brush.
49.60 Wire fence, bears NW. and SE.
53.30 Cross road, bears NE. and SW.
57.20 Cross wash, 40 lks. wide, course SE.
63.15 Cross road, bears NW. and SE.
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, 1913;
T21S R24E in N. half;
S 3 in NW,
S 2 in NE,
S11 in SE. and
S10 in SW. quadrant.
Dig pits 18 x 18 x 12 ins., in each sec. 5 $\frac{1}{2}$ ft. dist.; and raise a mound of earth 4 ft. base, 3 ft. high, W. of cor.
- Land, level.
Soil, rich sandy loam medium texture, over 2 ft. deep 1st rate.
No timber.
Undergrowth, mesquite, cacti,
-
- East, on a random line, bet. secs. 2 and 11.
40.00 Set temp. $\frac{1}{4}$ sec. cor.
79.98 Intersect N. and S. line 2 lks. N. of the cor. of secs. 1, 2, 11 and 12., hereinbefore described
Thence I run,
N. 89°59'W., on a true line, bet. secs. 2 and 11.
Over level country.
- 18.50 Cross road, bears NW. and SE.
20.30 Wire fence, bears NW. and SE.
36.10 Cross wash, 12 lks. wide, course SE.
39.99 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 cap¹⁹¹³; $\frac{1}{4}$ S2 in N. and S11 in S. half.
Dig pits 18 x 18 x 12 ins., E. and W. of cor. 3 ft. dist.; and raise a mound of earth 3 $\frac{1}{2}$ ft. base, 1 $\frac{1}{2}$ ft. high, N. of cor.
- 46.30 Cross road, bears NW. and SE.
64.50 Cross wash, 10 lks. wide, course SE.
79.25 Cross road, bears NW. and SE.
79.98 The cor. of secs. 2, 3, 10 and 11, hereinbefore described
Land, rolling.
Soil, rich sandy loam medium texture over 2 ft. deep 1st rate.
No timber.
No undergrowth.
-
- N. 0°1'W., bet. secs. 2 and 3.
Over level country.
- 1.00 Cross road, bears NW. and SE.
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 cap¹⁹¹³; $\frac{1}{4}$ S3 in W. and S2 in E. half.
Dig pits 18 x 18 x 12 ins. N. and S. of cor. 3 ft. dist.; and raise a mound of earth 3 $\frac{1}{2}$ ft. base, 1 $\frac{1}{2}$ ft. high, W. of cor.
- 42.50 Cross wash, 8 lks. wide, course SE. Enter adobe soil.

BOOK 2656

Subdivision of T21S R24E.

Chains.

- 45.60 Cross road, bears NW. and SE.
 43.95 Wire fence, bears NW. and SE.
 52.50 Cross road, bears NW and SE. Leave adobe soil.
 86.10 Intersect the Fourth Standard Parallel South, 16.19 chs. N. 89°44' W. of the $\frac{1}{4}$ sec. cor. of sec. 34, T20SR24E, which is an iron post ^{with brass cap} marked and witnessed as described by the Surveyor General.
 Set an iron post 3 ft. long, 2 ins. in diam, 24 ins. in the ground, for closing corner of secs. 2 and 3, marked on brass cap, 1913;
 CC S. of center,
 T20SR24ES33S34 in N. half;
 S2 in SE. and
 S3 in SW. quadrant.
 Dig pits 24 x 18 x 12 ins., crosswise on each line, E. and W. 3 ft., and S. of cor. 7 ft. dist.; and raise a mound of earth 4 ft. base, 2 ft. high, S. of cor.
 Land, level.
 Soil, rich sandy loam medium texture, over 2 ft. deep and alkaline adobe, 1st and 4th rate.
 No timber or brush.

February 26, 1913.

- February 28, 1913; At 7h.30m a.m., l.m.t. I set off 31° 33' N. on the lat. arc; 79° 59½' S. on the decl. arc; and determine a meridian with the solar, at the cor. of secs. 3, 4, 33 and 34 on the S. bdy. of Tp., recently established by me as described in Book "E"
 Thence I run,
 N. 0° 2' W., bet. secs. 33 and 34.
 Descend mountainous slope through dense brush and scattered timber.
 24.40 Cross wash, 20 lks. wide, course NE. 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 ¹⁹¹³ S33 in W. and S34 in E. half.
 Raise a mound of stone 2 ft. base, 1½ ft. high, W. of cor. Pits impracticable.
 56.20 Top of main ridge bears NE and SW. Descend.
 77.30 Cross drain 8 lks. wide course NE. Ascend.
 80.00 Set an iron post 3 ft. long, 2 ins. in diam, 24 ins. in the ground, for cor. of secs. 27, 28, 33 and 34, marked on brass cap, 1913;
 T21S R24E in N. half;
 S28 in NW,
 S27 in NE,
 S34 in SE. and
 S33 in SW. quadrant.
 Raise a mound of stone 2 ft. base, 1½ ft. high, W. of cor. Pits impracticable.
 Land, mountainous.
 Soil, rocky 4th rate.
 Timber, oak.
 Undergrowth, ocatilla, cacti, mesquite.

- East, on a random line, bet. secs. 27 and 34.
 40.00 Set temp. $\frac{1}{4}$ sec. cor.
 80.20 Intersect N. and S. line, 14 lks. S. of the cor. point of secs. 26, 27, 34 and 35, in wash,
 Thence I run
 S. 89° 54' W., on a true line, bet. secs. 27 and 34.
 Ascend over mountainous country through dense undergrowth.
 22.60 Top of ridge, bears NE. and SW. Descend.
 38.00 Cross drain, 8 lks. wide, course NE. Ascend.

BOOK 2656

Subdivision of T21S R24E.

Chains.
 40.10 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 cap¹⁹¹³ S27 in N. and S34 in S. half;
 Raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high, N. of cor. Pits impracticable.
 49.00 Top of ridge, bears NE. and SW. Descend.
 59.20 Cross drain, 12 lks. wide, course NE. Ascend.
 69.10 Top of ridge, bears N. and S. Descend.
 75.20 Cross drain, 8 lks. wide, course NE. Ascend.
 80.20 The cor. of secs. 27, 28, 33 and 34, hereinbefore described
 Land, mountainous.
 Soil, sandy rocky 4th rate.
 No timber.
 Undergrowth, ocatilla, cacti, mesquite.
 Note: Cloudy at noon, making a latitude observation impracticable.

 N. 0° 2' W., bet. secs. 27 and 28.
 Ascend mountainous country through dense brush.
 9.80 Top of ridge, bears NE. and SW. Descend.
 11.30 Cross head of gulch, 20 lks. wide, course NE. Ascend.
 27.30 Top of ridge, bears NE. and SW. 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 cap¹⁹¹³ S28 in W. and S27 in E. half.
 Raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor, Pits impracticable.
 40.35 Cross drain, 8 lks. wide, course NE. Ascend.
 66.00 Top of ridge, bears 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. 21, 22, 27 and 28, marked on brass cap¹⁹¹³;
 T21S R24E in N. half;
 S21 in NW,
 S22 in NE,
 S27 in SE. and
 S28 in SW. quadrant.
 Raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor. Pits impracticable.
 Land, mountainous.
 Soil, rocky 4th rate.
 No timber.
 Undergrowth, ocatilla, cacti, mesquite.

February 28, 1913.

 March 1. 1913; At 7h.00m a.m., 1.m.t., I set off $31^{\circ}34\frac{1}{2}'$ N. on the lat. arc; $7^{\circ}36'S$. on the decl. arc; and determine a meridian with the solar at the cor. of secs. 21, 22, 27 and 28, above described,
 Thence I run,
 N. 89° 54' E., on a random line, bet. secs. 22 and 27.
 40.00 Set temp. $\frac{1}{4}$ sec. cor.
 30.14 Intersect the N. and S. line, 5 lks. N. of cor. of secs. 22, 23, 26 and 27, hereinbefore described
 Thence I run
 S. 89° 56' W., on a true line, bet. secs. 22 and 27.
 Ascend over mountainous country through dense brush.
 3.10 Top of ridge, bears NE. and SW. Descend.
 20.10 Cross wash, 10 lks. wide, course NE. Ascend.
 35.00 Top of ridge, bears NE. and SW. Descend.
 40.07 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 cap¹⁹¹³ S22 in N. and S27 in S. half.
 Raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high, N. of cor. Pits impracticable.
 40.30 Cross drain, 8 lks. wide, course NE. Ascend.
 70.10 Top of ridge, bears NE. and SW. Descend.
 80.14 The cor. of secs. 21, 22, 27 and 28, hereinbefore described

BOOK 2656

Subdivision of T21S R24E.

Chains.	Land, mountainous. Soil, rocky 4th rate. No timber. Undergrowth, ocatilla, cacti, mesquite.
40.00	<p>N. 0°2'W, bet. secs. 21 and 22. Descend over mountainous country through dense brush. 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 cap¹⁹¹³ S21 in W. and S22 in E. half. Raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high, W of cor. Pits impracticable.</p>
45.50	Leave mountains and enter rolling land.
80.00	<p>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 cap¹⁹¹³; T21S R24E in N. half; S16 in NW, S15 in NE, S22 in SE. and S21 in SW. quadrant; Raise a mound of stone 2 ft, base, $1\frac{1}{2}$ ft. high, W. of cor. Pits impracticable.</p>
	<p>Land, mountainous and rolling. Soil, rocky sandy loam 3rd rate. No timber. Undergrowth, mesquite, cacti, ocatilla.</p>
40.00	N. 89°56'E, on a random line, bet. secs. 15 and 22.
80.00	<p>Set temp. $\frac{1}{4}$ sec. cor. Intersect N. and S. line, 9 lks. N. of cor. of secs. 14, 15, 22 and 23, hereinbefore described, Thence I run, West, on a true line, bet. secs. 15 and 22.</p>
37.10	Over rolling land through dense brush.
40.00	<p>Cross wash, 12 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 cap¹⁹¹³ S15 in N. and S22 in S. half; Raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high, N. of cor. Pits impracticable.</p>
80.00	<p>The cor. of secs 15, 16, 21 and 22, hereinbefore described Land, rolling. Soil, sandy rocky loam 3rd rate. No timber. Undergrowth, mesquite, ocatilla.</p>
4.60	N. 0°2'W, bet. secs. 15 and 16.
40.00	<p>Over level country through dense brush. Cross road, bears NE. and SW. 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 cap¹⁹¹³ S16 in W. and S15 in E. half. Raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor. Pits impracticable.</p>
41.00	Cross wash, 18 lks. wide, course SE.
60.20	Cross wash, 20 lks. wide, course NE.
67.65	Cross wash, 25 lks. wide, course NE.
80.00	<p>Set an iron post 3ft. long, 2 ins. in diam, 24 ins. in the ground, for cor. of secs. 9, 10, 15 and 16, marked on brass cap¹⁹¹³; T21S R24E in N. half; S 9 in NW, S10 in NE, S15 in SE. and S16 in SW. quadrant. Raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor. Pits impracticable.</p>

BOOK 2656

Subdivision of T21S R24E.

Chains.

Land, level.
Soil, dry sandy loam coarse texture over 2 ft. deep 2nd rate.

No timber.

Undergrowth, mesquite, blackbrush.

Note

At this cor. I set off $7^{\circ}34'$ S. on the decl. arc and observe the sun on the meridian at noon; the resulting latitude is $31^{\circ}36\frac{1}{2}'$ N.

-
- East, on a random line, bet. secs. 10 and 15.
40.00 Set temp. $\frac{1}{4}$ sec. cor.
79.98 Intersect N. and S. line, 3 lks. S. of cor. of secs. 10, 11, 14 and 15. hereinbefore described
Thence I run,
S. $89^{\circ}59'$ W., on a true line, bet. secs. 10 and 15.
Over level country through scattering brush.
10.40 Cross road, bears NE. and SW.
39.99 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 $\frac{19}{13}$; $\frac{1}{4}$ S10 in N. and S15 in S. half.
Raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high, N. of cor. Pits impracticable.
79.50 Cross wash, 25 lks. wide, course NE.
79.98 The cor. of secs. 9, 10, 15, and 16 hereinbefore described
Land, level.
Soil, rich dry sandy loam medium texture over 2 ft. deep, 1st rate.
No timber.
Undergrowth, mesquite, blackbrush, ocatilla, cacti.

-
- N. $0^{\circ}2'$ W., bet. secs. 9 and 10.
Over level country through scattering brush.
31.15 Cross wash, 30 lks. wide, course NW.
27.10 Cross same wash, 30 lks. wide, course NE.
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 $\frac{19}{13}$; $\frac{1}{4}$ S9 in W. and S10 in E. half.
Dig pits 18 x 18 x 12 ins., N. and S. of cor. 3 ft. dist.; and raise a mound of earth $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high, W. of cor.
58.00 Leave brush.
59.76 Wire fence, bears NW. and SE.
67.65 Wire fence, bears NW. and SE.
75.00 Cross road, bears E. and W.
78.30 Wire fence, bears N15 $^{\circ}$ E. and W.
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, $\frac{19}{13}$;
T21S R24E in N. half;
S 4 in NW,
S 3 in NE;
S10 in SE. and
S 9 in SW. quadrant.
Dig pits 18 x 18 x 12 ins. in each sec. $5\frac{1}{2}$ ft. dist.; and raise a mound of earth 4 ft. base, 2 ft. high, W. of cor.
Land, level.
Soil, rich sandy loam medium texture over 2 ft. deep, 1st rate.
No timber.
Undergrowth, mesquite, cacti.
-

BOOK 2656

Subdivision of T21S R24E.

Chains.	
	N. 89°59'E, on a random line, bet. secs. 3 and 10.
40.00	Set temp. $\frac{1}{4}$ sec. cor.
80.02	Intersect N. and S. line, 2 lks. S. of the cor. of secs. 2, 3, 11 and 10, hereinbefore described, Thence I run, S. 89°58'W, on a true line, bet. secs. 3 and 10. Over level country.
32.80	Cross road, bears NE. and SW.
40.01	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 ¹⁹¹³ ; S3 in N. and S10 in S. half. Dig pits 18 x 18 x 12 ins., E. and W. of cor. 3 ft. dist.; and raise a mound of earth 3 $\frac{1}{2}$ ft. base, 1 $\frac{1}{2}$ ft. high, N. of cor.
79.63	Wire fence, bears N. 15°E. and S. 15°W.
80.02	The cor. of secs. 3, 4, 9 and 10, hereinbefore described. Land, level. Soil, rich sandy loam over 2 ft. deep 1st rate. No timber or undergrowth.

	N. 0°2'W, bet. secs. 3 and 4. Over level country.
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 ¹⁹¹³ ; S4 in W. and S3 in E. half. Raise a mound of stone 2 ft. base, 1 $\frac{1}{2}$ ft. high, W. of cor. Pits impracticable.
74.05	Cross road, bears NW. and SE.
86.51	Intersect the Fourth Standard Parallel South, 16.20 chs. N. 89°44'W. of the $\frac{1}{4}$ sec. cor. of sec. 33 T20S R24E, which is an iron post ^{with brass cap} marked and witnessed as described by the Surveyor General. Set an iron post 3 ft. long, 2 ins. in diam., 24 ins. in the ground, for closing corner of secs. 3 and 4, marked on brass cap, 1913; CC S of center, T20SR24ES32S33 in N. half; S3 in SE. and S4 in SW. quadrant. Dig pits 24 x 18 x 12 ins., crosswise on each line E. and W. 3 ft., and S. of cor. 7 ft. dist.; and raise a mound of earth 4 ft. base, 2 ft. high, S. of cor. Land, level. Soil, rich dry sandy loam medium texture over 2 ft. deep 1st rate. No timber or undergrowth.

March 1, 1913.

March 2, 1913, At 10h.00m a.m., l.m.t., I set off 31° 33'N. on the lat. arc; 7°13'S. on the decl. arc; and determine a meridian with the solar, at the cor. of secs. 4, 5, 32 and 33, on S. bdy. of Tp. recently estab. by me as described in Book "E"
Thence I run,
N. 0°2'W, bet. secs. 32 and 33.
Ascend over mountainous country through dense brush.
Top of main ridge, bears NE. and SW. Descend.

21.00	Top of main ridge, bears NE. and SW. 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 ¹⁹¹³ ; S32 in W. and S33 in E. half. Raise a mound of stone 2 ft. base, 1 $\frac{1}{2}$ ft. high, W. of cor. Pits impracticable.
62.50	Cross small canon, 20 lks. wide, course NE.
80.00	Set an iron post 3 ft. long, 2 ins. in diam., 24 ins. in the ground, for cor. of secs. 28, 29, 32 and 33, marked on brass cap, 1913; T21SR24E in N. half; S29 in NW.,

BOOK 2656

Subdivision of T21S R24 E.

Chains.

S28 in NE,
S33 in SE. and
S32 in SW. quadrant.
Raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high, W. of
cor. Pits impracticable.

Land, mountainous.

Soil, rocky 4th rate.

Timber, scattering oak.

Undergrowth, ocatilla, cacti, blackbrush.

Note: ~~March 2, 1913.~~ At this cor. I set off $7^{\circ}11\frac{1}{2}'$ S. on the decl.
arc and observe the sun on the meridian at noon; the re-
sulting lat. is $31^{\circ}33\frac{1}{2}'$ N.

-
- East, on a random line, bet. secs. 28 and 33.
- 40.00 Set temp. $\frac{1}{4}$ sec. cor.
- 80.18 Intersect N. and S. line, 15 lks. S. of the cor. of secs. 27,
28, 32 and 34., hereinbefore described,
Thence I run,
S. $89^{\circ}54'$ W. on a true line, bet. secs. 28 and 33.
Over mountainous country through dense brush. Ascend
through scattering timber.
- 25.00 Top of ridge, bears NE. and SW. Descend.
- 40.09 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 cap¹⁹¹³ $\frac{1}{4}$ S28
in N. and S33 in S. half; from which
An oak, 14 ins. in diam, bears N18 $^{\circ}$ E, 84 lks. dist.;
marked $\frac{1}{4}$ S28BT.
An oak, 12 ins. in diam, bears S30 $^{\circ}$ E, 55 lks. dist.,
marked $\frac{1}{4}$ S33BT.
- 40.50 Cross wash, 10 lks. wide, course NE. Ascend.
- 46.80 Cross top of ridge, through low pass, bears NE. and SW. Desc.
- 74.80 Cross drain, 18 lks. wide, course NE. Ascend.
- 80.18 The cor. of secs. 28, 29, 32 and 33., hereinbefore described
Land, mountainous.
Soil, rocky 4th rate.
Timber, oak.
Undergrowth, blackbrush, cacti, ocatilla.

March 2, 1913.

-
- March 3, 1913, At 7h.30m a.m., l.m.t., I set off $31^{\circ}33\frac{1}{2}'$
N. on the lat. arc; $6^{\circ}51\frac{1}{2}'$ S. on the decl. arc; and deter-
mine a meridian with the solar, at the cor. of secs. 28,
29, 32 and 33., hereinbefore described,
Thence I run,
N. $0^{\circ}2'$ W., bet. secs. 28 and 29.
Descend over mountainous country through dense brush.
- 21.20 Cross wash, 25 lks. wide, course NE. 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 cap¹⁹¹³ $\frac{1}{4}$ S29
in W. and S28 in E. half.
Raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high, W. of
cor. Pits impracticable.
- 41.90 Top of ridge, bears NE. and SW. Descend.
- 52.90 Cross drain, 6 lks. wide, course NE. Ascend.
- 58.70 Top of ridge, bears NE. and SW. Descend.
- 63.10 Cross drain, 6 lks. wide, course E. Ascend.
- 69.90 Top of ridge, bears E. and W. Descend.
- 80.00 Set an iron post 3 ft. long, 2 ins. in diam, 24 ins. in the
ground, for cor. of secs. 20, 21, 28 and 29, marked on brass
cap, 1913;
T21SR24E in N. half.
S20 in NW,
S21 in NE,
S28 in SE. and
S29 in SW. quadrant.
Raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high, W. of
cor. Pits impracticable.

Subdivision of T21S R24E.

Chains.

Land, mountainous.
Soil, rocky 4th rate.
No timber.
Undergrowth, blackbrush, ocatilla, cacti.

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- N. 89°54'E, on a random line, bet. secs. 21 and 23.
40.00 Set temp. $\frac{1}{4}$ sec. cor.
80.14 Intersect N. and S. line, 16 lks. N. of the cor. of secs. 21, 22, 27 and 28, hereinbefore described,
Thence I run,
N. 89°59'W, on a true line, bet. secs. 21 and 28.
Descend over mountainous country through dense brush.
18.80 Cross wash, 8 lks. wide, course NE. Ascend.
38.25 Top of ridge, bears NE. and SW. Descend.
40.07 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 cap¹⁹¹³ S21 in N. and S28 in S. half.
Raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high, N. of cor. Pits impracticable.
61.70 Cross wash, 35 lks. wide, course NE. Ascend.
80.14 The cor. of secs. 20, 21, 28 and 29, hereinbefore described

Land, mountainous.
Soil, rocky 4th rate.
No timber.
Undergrowth, cacti, ocatilla.

Note: ~~At this cor. I set off 6°48 $\frac{1}{2}$ ' S. on the decl. arc and observe the sun on the meridian at noon; the resulting lat. is 31°34 $\frac{1}{2}$ ' N.~~

-
- N. 0°2'W, bet. secs. 20 and 21.
Descend over mountainous country through dense brush.
2.30 Cross drain, 8 lks. wide, course NE. Ascend.
34.20 Cross road, bears NE. and SW. Leave mountain^{ous} and enter rolling land.
36.10 Cross wash, 20 lks. wide, course NE.
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 cap¹⁹¹³ S20 in W. and S21 in E. half.
Raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor. Pits impracticable.
53.50 Leave rolling country and ascend mountainous land.
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 cap¹⁹¹³;
T21SR24E in N. half;
S17 in NW,
S16 in NE,
S21 in SE. and
S20. in SW. quadrant.
Raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor. Pits impracticable.
Land, mountainous and rolling.
Soil, rocky and dry sandy loam medium texture over 2 ft. deep 4th and 1st rate.
No timber.
Undergrowth, mesquite, blackbrush, ocatilla.

March 3, 1913.

BOOK 2656

Subdivision of T21S R24E.

Chains.	March 6, 1913, S. 89°59'E, on a random line, bet. secs 16 and 21.
40.00	Set temp. $\frac{1}{4}$ sec. cor.
80.02	Intersect N. and S. line, 9 lks. S. of cor. of secs. 15, 16, 21 and 22, hereinbefore described, Thence I run, S. 89°57'W, on a true line, bet. secs. 16 and 21. Over rolling land through dense brush.
10.20	Cross road, bears NE. and SW.
27.50	Cross wash, 70 lks. wide, course NE. Leave rolling land and ascend mountainous land.
40.01	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 ¹⁹¹³ $\frac{1}{4}$ S16 in N. and S21 in S. half. Raise a mound of stone 2 ft. base, 1 $\frac{1}{2}$ ft. high, N. of cor. Pits impracticable.
42.00	Top of ridge, bears N and S. Descend, W slope.
60.00	Ascend NE. slope.
80.00	Top of ridge, bears NW. and SE.
80.02	The cor. of secs. 16, 17, 20 and 21, hereinbefore described Land, rolling and mountainous. Soil, first 27.50 chs. sandy gravel 3rd rate, last 52.50 chs. rocky 4th rate. No timber. Undergrowth, mesquite, ocatilla, catclaw.

	N. 0°2'W, bet. secs. 16 and 17.
40.00	Descend over mountainous country through dense brush. 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 ¹⁹¹³ $\frac{1}{4}$ S17 in W. and S16 in E. half. Raise a mound of stone 2 ft. base, 1 $\frac{1}{2}$ ft. high, W. of cor. Pits impracticable.
42.00	Leave mountainous country and enter rolling land.
45.90	Cross wash, 8 lks. wide, course NE.
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, 1913; T21SR24E in N. half; S 8 in NW, S 9 in NE, S16 in SE. and S17 in SW. quadrant. Dig pits 18 x 18 x 12 ins. in each sec. 5 $\frac{1}{2}$ ft. dist.; and raise a mound of earth 4 ft. base, 1 $\frac{1}{2}$ ft. high, W. of cor. Land, mountainous and rolling. Soil, first 42 chs. rocky 4th rate, last 38 chs. dry sandy loam medium texture over 2ft. deep 1st rate. No timber. Undergrowth, cacti, ocatilla, mesquite.

	N. 89°57'E, on a random line, bet. secs. 9 and 16.
40.00	Set temp. $\frac{1}{4}$ sec. cor.
79.98	Intersect N. and S. line, 5 lks. N. of cor. of secs. 9, 10, 15 and 16, hereinbefore described, Thence I run, S. 89°59'W, on a true line, bet. secs. 9 and 16. Over rolling land through dense brush.
39.99	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 ¹⁹¹³ $\frac{1}{4}$ S9 in N. and S16 in S. half. Raise a mound of stone 2 ft. base, 1 $\frac{1}{2}$ ft. high, N. of cor. Pits impracticable.
79.98	The cor. of secs. 8, 9, 16 and 17, hereinbefore described Land, rolling. Soil, dry sandy loam mixed with gravel 3rd rate.

Subdivision of T21S R24E.

Chains.

No timber.
Undergrowth, mesquite.

Note: At this cor. I set off 5°39'S on the decl. arc and observe the sun on the meridian at noon; the resulting lat. is 31°36½'N.

-
- N. 0°2'W, bet. secs. 8 and 9.
Over level country through scattering brush.
- 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 cap¹⁹¹³ S8 in W. and S9 in E. half.
Dig pits 18 x 18 x 12 ins. N. and S. of cor. 3 ft. dist.; and raise a mound of earth 3½ ft. base, 1½ ft. high, W. of cor.
- 58.00 Leave brush.
- 80.00 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 cap¹⁹¹³;
T21SR24E in N. half;
S5 in NW,
S4 in NE,
S9 in SE. and
S8 in SW. quadrant.
Dig pits 18 x 18 x 12 ins., in each sec. 5½ ft. dist.; and raise a mound of earth 4 ft. base, 2 ft. high, W. of cor.
- Land, level.
Soil, dry sandy loam medium texture over 2 ft. deep, 1st rate.
No timber.
Undergrowth, cacti, mesquite.
-
- N. 89°59'E, on a random line, bet. secs. 4 and 9.
- 40.00 Set temp. ¼ sec. cor.
- 79.96 Intersect N. and S. line 4 lks. S. of cor. of secs. 3, 4, 9 and 10, hereinbefore described, thence I run, S 89°57'W. on a true line bet secs. 4 and 9.
- Over level country through scattering brush.
- 39.98 Set an iron post 3 ft. long, 1 in. in diam, 26 ins. in the ground, for ¼ sec. cor., marked on brass cap¹⁹¹³ S4 in N. and S9 in S. half.
Raise mound of stone 2 ft. base, 1½ ft. high, N. of cor. Pits impracticable.
- 62.10 Cross road, bears NW. and SE.
- 79.96 The cor. of secs. 4, 5, 8 and 9, hereinbefore described
Land, level.
Soil, loose dry sandy loam medium texture over 2 ft. deep 1st rate.
No timber.
Undergrowth, mesquite.
-
- N. 0°2'W, bet. secs. 4 and 5.
- Over level land through scattering brush.
- 11.10 Cross road, bears NW. and SE.
- 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 cap¹⁹¹³ S5 in W. and S4 in E. half.
Dig pits, 18 x 18 x 12 ins., N. and S. of cor. 3 ft. dist.; and raise a mound of earth 3½ ft. base, 1½ ft. high, W. of cor.
- 86.80 Intersect Fourth Standard Parallel South, 16.15 chs N. 89° 44'W. of ¼ sec. cor. of sec. 32 T20SR24E, which is an iron post^{marked} and witnessed as described by Surveyor General.
Set an iron post 3 ft. long, 2 ins. in diam, 24 ins. in the ground, for closing corner of secs. 4 and 5, marked on brass cap¹⁹¹³;

BOOK 2656

Subdivision of T21S R24E.

Chains.

CC S. of center;
 T20SR24ES31S32 in N. half;
 S4 in SE. and
 S5 in SW. quadrant.
 Dig pits 24 x 18 x 12 ins., crosswise on each line
 E. and W. 3 ft., and S. of cor. 7 ft. dist.; and
 raise a mound of earth 4 ft. base, 2 ft. high,
 S. of cor.

Land, level.

Soil, dry sandy loam medium texture over 2 ft. deep 1st
rate.

No timber.

Undergrowth, mesquite, cacti.

March 6, 1913.

March 4, 1913, At 7h.30m. a.m., l.m.t., I set off 31°33'N.
 on the lat. arc; 6°28'S. on the decl. arc; and determine
 a meridian with the solar, at the cor. of secs. 5, 6, 31
 and 32 on S. bdy. of Tp. recently estab. by me as described
 in Book "E"

Thence I run,

N. 0°3'W., bet. secs. 31 and 32.

Ascend over mountainous land through scattering timber
and dense brush.

- 7.95 Top of ridge, bears NW. and SE. Descend.
 14.30 Cross drain, 8 lks. wide, course NW. Ascend.
 21.55 Top of ridge, bears NW. and SE. Descend.
 37.40 Cross drain, 8 lks. wide, course NW. 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 $\frac{1}{4}$ S31
 W. and S32 in E. half.
 Raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high, W. of
 cor. Pits impracticable.
 51.50 Top of ridge, bears NW. and SE. Descend.
 70.30 Cross drain, 6 lks. wide, course NW. Ascend.
 80.00 Set an iron post 3 ft. long, 2 ins. in diam., 24 ins. in
 the ground, for cor. of secs. 29, 30, 31 and 32, marked
 on brass cap, 1913;
 T21SR24E in N. half;
 S30 in NW,
 S29 in NE,
 S32 in SE. and
 S31 in SW. quadrant.
 Raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high, W. of
 cor. Pits impracticable.
 Land, mountainous.
 Soil, rocky 4th rate.
 Timber, oak.
 Undergrowth, cacti, ocatilla.

- 40.00 East, on a random line, bet. secs. 29 and 32.
 Set temp. $\frac{1}{4}$ sec. cor.
 80.12 Intersect N. and S. line, 12 lks. S. of cor. of secs. 28, 29,
 32 and 33, hereinbefore described,
 Thence I run,
 S. 89°55'W., on a true line, bet. secs. 29 and 32.
 Ascend over mountainous land through dense undergrowth.
 3.30 Top of ridge, bears NE. and SW. Descend.
 12.80 Cross drain, 8 lks. wide, course NE. Ascend.
 37.00 Cross wash, 18 lks. wide, course NE.
 40.06 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 $\frac{1}{4}$ S29
 in N. and S33 in S. half.
 Raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high, N. of
 cor. Pits impracticable.
 52.70 Top of ridge, bears NE. and SW. Descend.

BOOK 2656

Subdivision of T21S, R24E.

Chains.

80.12 The cor. of secs. 29, 30, 31 and 32, hereinbefore described Land, mountainous.
Soil, rocky 4th rate.
No timber.
Undergrowth, cacti, ocatilla.

Note: ~~March 4, 1913.~~ At this cor. I set off $6^{\circ}25\frac{1}{2}'S$ on the decl. arc and observe the sun on the meridian at noon; the resulting lat. is $31^{\circ}33\frac{1}{2}'N$.

West, bet. secs. 30 and 31, on true line,
Descend over mountainous land through dense brush.

2.20 Cross drain, 8 lks. wide course NE. Ascend.

19.60 Top of ridge, bears N. and S. Descend.

28.40 Cross wash, 16 lks. wide, course NE. 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 cap¹⁹¹³; $\frac{1}{4}$ S30 in N. and S31 in S. half.
Raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high, N. of cor. Pits impracticable.

Top of ridge, bears N. and S. Descend.

51.40 Cross drain, 40 lks. wide, course NE.

57.80 Cross road, bears NE. and SW.

58.60 Cross wash, 20 lks. wide, course NE. Ascend.

68.00 Top of ridge, bears NE. and SW. Descend.

72.95 Cross wash, 10 lks. wide, course NE. Ascend.

76.04 Intersect the W. bdy. of Tp. 3.25 chs. N. of cor. of secs. 25 and 36, T21S R23E, recently established & described in ^{Book E}
Set an iron post 3 ft. long, 2 ins. in diam, 24 ins. in the ground, for closing corner of secs. 30 and 31, marked on brass cap, 1913;
CC W. of center
T21S in N. and
S25, S36, R23E in W. half.
S30 in NE. and
S31, R24E in SE. quadrant.
Raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high, E. of cor. Pits impracticable.

Land, mountainous.
Soil, rocky 4th rate.
No timber.
Undergrowth, cacti, ocatilla, blackbrush.

March 4, 1913.

March 5, 1913, At 7h.30m. a.m., l.m.t., I set off $31^{\circ}33\frac{1}{2}'N$ on the lat. arc; $6^{\circ}5\frac{1}{2}'S$ on the decl arc; and determine a meridian with the solar at the cor. of secs. 29, 30, 31 and 32, hereinbefore described,
Thence I run,
N. $0^{\circ}3'W$, bet. secs. 29 and 30.

Descend along steep W. slope through dense brush.

19.90 Cross road, bears NE. and SW.

20.90 Cross wash, 60 lks. wide, course NE. Ascend.

39.40 Cross drain, 6 lks. wide, course SE.

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 cap¹⁹¹³; $\frac{1}{4}$ S30 in W. and S29 in E. half.
Raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor. Pits impracticable.

57.75 Top of ridge, bears NW. and SE. Descend.

70.70 Cross drain, 8 lks. wide, course NE. Ascend.

75.90 Cross road, bears NW. and SE.

80.00 Set an iron post 3 ft. long, 2 ins. in diam, 24 ins. in the ground, for cor. of secs. 19, 20, 29 and 30, marked on brass cap, 1913;
T21SR24E in N half;

BOOK 2656

Subdivision of T21S R24E.

Chains.	<p>S19 in NW, S20 in NE, S29 in SE. and S30 in SW. quadrant. Raise a mound of stone 2 ft. base, 1½ ft. high, W. of cor. Pits impracticable. Vacant cabin bears S. 30°W. Land, mountainous. Soil, rocky 4th rate. No timber. Undergrowth, ocatilla, blackbrush, mesquite.</p>
40.00 80.04	<p>N. 89°55'E, on a random line, bet. secs. 20 and 29. Set temp. ¼ sec. cor. Intersect N. and S. line, 14 lks. N. of cor. of secs. 20, 21, 28 and 29., hereinbefore described, Thence I run, N. 89°59'W, on a true line, bet. secs. 20 and 29.</p>
13.50 18.80 26.40	<p>Ascend over mountainous land through dense brush. Top of ridge, bears NE. and SW. Descend. Cross drain, 6 lks. wide course N. Ascend. Top of ridge, bears NE. and SW. Descend.</p>
40.02 44.50	<p>Set an iron post 3 ft. long, 1 in. in diam, 26 ins. in the ground, for ¼ sec. cor., marked on brass cap¹⁹¹³ ¼ S20 in N. and S 29 in S. half. Raise a mound of stone 2 ft. base, 1½ ft. high, N. of cor. Pits impracticable.</p>
44.50 48.50 67.50 80.04	<p>Leave mountains and enter rolling land. Cross wash, 50 lks. wide, course NE. Cross road, bears NE. and SW. Leave rolling land and ascend mountain, along S. slope. The cor. of secs. 19, 20, 29 and 30., hereinbefore described Land, mountainous and rolling. Soil, rocky 4th rate excepting from 44.50 to 67.50 which is dry sandy loam medium texture over 2 ft. deep 1st rate. No timber. Undergrowth, ocatilla, mesquite.</p>
Note:	<p>At this cor. I set off 6°2'S. on the decl. arc and observe the sun on the meridian at noon; the re- sulting lat. is 31°34½'N.</p>
5.05 8.30 20.55 20.63 38.30 40.00 48.75 64.60 76.06	<p>West, bet. secs. 19 and 30, on true line, Descend over mountainous land through dense brush. Cross road, bears NE. and SW. Cross wash, 8 lks. wide, course NE. Ascend. Top of ridge, bears NE. and SW. Descend. Vacant cabin, bears S. 77°E. Cross wash, 12 lks. wide, course NW. Ascend. Set an iron post 3 ft. long, 1 in. in diam, 26 ins. in the ground, for ¼ sec. cor., marked on brass cap¹⁹¹³ ¼ S19 in N. and S30 in S. half. Raise a mound of stone 2 ft. base, 1½ ft. high, N. of cor. Pits impracticable. Point of ridge, bears NE. and SW. Descend. Cross drain, 8 lks. wide, course NE. Ascend along S. slope of mountain. Intersect W. bdy. of Tp., 3.40 chs. N. of cor. of secs. 24 and 25, T21S, R23E. recently estab. by me. & described in ^{Book E} Set an iron post 3 ft. long, 2 ins. in diam, 24 ins. in the ground, for closing corner of secs. 19 and 30, marked on brass cap, 1913; CC W. of center T21S in N. and S24, S25, R23E in W. half; S19 in NE. and S30 in SE. quadrant.</p>

Subdivision of T21S R24E.

Chains.

Raise a mound of stone 2 ft. base, 1 1/2 ft. high, E. of cor. Pits impracticable.
Land, mountainous.
Soil, rocky 4th rate.
No timber.
Undergrowth, ocatilla, blackbrush.

March 5, 1913.

March 6, 1913, At 7h.00m. a.m., l.m.t., I set off 31°34 1/2' N. on the lat. arc; 59°41 1/2' S. on the decl. arc; and determine a meridian with the solar at the cor. of secs. 19, 20, 29 and 30, hereinbefore described,

Thence I run, N. 0°3' W, bet. secs. 19 and 20.

Ascend over mountainous land through dense brush.

1.90 Top of ridge, bears NE. and SW. Descend.

11.50 Cross drain, 8 lks. wide, course SW. Ascend.

26.40 Top of ridge, bears NE. and SW. Descend.

37.10 Cross drain, 6 lks. wide, course SW. 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 cap⁹¹³; S19 in W. and S20 in E. half.

Raise a mound of stone 2 ft. base, 1 1/2 ft. high, W. of cor. Pits impracticable.

50.30 Top of ridge, bears NW. and SE. Descend.

80.00 Set an iron post 3 ft. long, 2 ins. in diam, 24 ins. in the ground, for cor. of secs. 17, 18, 19 and 20, marked on brass cap, 1913;

T21SP24E in N. half;

S18 in NW,

S17 in NE,

S20 in SE. and

S19 in SW. quadrant.

Raise a mound of stone 2 ft. base, 1 1/2 ft. high, W. of cor. Pits impracticable.

Land, mountainous,
Soil, rocky 4th rate.
No timber.

Undergrowth, cacti, ocatilla, mesquite, blackbrush.

S. 89°59' E., on a random line, bet. secs. 17 and 20.

40.00 Set temp. 1/4 sec. cor.

79.92 Intersect N. and S. line, 7 lks. S. of cor. of secs. 16, 17, 20 and 21, hereinbefore described,

Thence I run,

S. 89°58' W., on a true line, bet. secs. 17 and 20.

Ascend over mountainous land through dense brush.

19.00 Top of ridge, bears NW. and SE. Descend.

22.20 Ascend.

26.70 Top of ridge, bears NW. and SE. Descend.

39.96 Set an iron post 3 ft. long, 1 in. in diam, 26 ins. in the ground, for 1/4 sec. cor., marked on brass cap⁹¹³; S17 in N. and S20 in S. half.

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

62.90 Cross wash, 15 lks. wide, course NE. Ascend.

76.00 Top of ridge, bears NE. and SW. Descend.

79.92 The cor. of secs. 17, 18, 19 and 20, hereinbefore described

Land, mountainous.
Soil, rocky 4th rate.
No timber.

Undergrowth, mesquite, blackbrush, catclaw.

March 6, 1913.

BOOK 2656

Subdivision of T21S R24E.

Chains.

- March 7, 1913, At 7h.00m. a.m., l.m.t., I set off $31^{\circ}35\frac{1}{2}'$ N. on the lat. arc; $5^{\circ}48\frac{1}{2}'$ S. on the decl. arc; and determine a meridian with the solar at the cor. of secs. 17, 18, 19 and 20, hereinbefore described,
Thence I run,
West, bet. secs. 18 and 19, on true line
Descend NW. slope through dense brush.
- 4.50 Leave mountains and enter rolling land.
- 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, $\frac{1}{4}$ S18 in N. and S19 in S. half.
Raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high, N. of cor. Pits impracticable.
- 49.50 Cross road, bears NW. and SE.
- 76.01 Intersect W. bdy. of Tp., 3.48 chs. N. of cor. of secs. 13 and 24, T21S, R23E, recently estab. by me. & described in Book "E"
Set an iron post 3 ft. long, 2 ins. in diam, 24 ins. in the ground, for closing corner of secs. 18 and 19, marked on brass cap, 1913;
CC W. of centre
T21S in N. and
S13, S24, R23E in W. half;
S18 in NE. and
S19, R24E in SE. quadrant.
Dig pits 24 x 18 x 12 ins., crosswise on each line, N. and S. of cor. 3 ft., and E. of cor. 7 ft. dist.; and raise a mound of earth 4 ft. base, 2 ft. high, E. of cor.
- Land, mountainous and rolling.
Soil, 1st 4.50 chs. rocky 4th rate, remainder dry sandy loam medium texture over 2 ft. deep 1st rate.
No timber.
Undergrowth, blackbrush, mesquite.
-
- N. $0^{\circ}3'$ W, bet. secs. 17 and 18.
Descend NW. slope through dense brush.
- 10.00 Leave mountainous land and enter rolling land.
- 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, $\frac{1}{4}$ S18 in W. and S17 in E. half.
Raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor. Pits impracticable.
- 58.85 Cross drain, 8 lks. wide, course NE.
- 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, 1913;
T21SR24E in N. half;
S 7 in NW,
S 8 in NE,
S17 in SE. and
S18 in SW. quadrant.
Dig pits 18 x 18 x 12 ins., in each sec. $5\frac{1}{2}$ ft. dist.; and raise a mound of earth 4 ft. base, 2 ft. high, W. of cor.
- Land, mountainous and rolling.
Soil, 1st 10 chs. rocky 4th rate, remainder dry sandy loam medium texture over 2 ft. deep 1st rate.
No timber.
Undergrowth, ocatilla, mesquite.
-
- N. $89^{\circ}58'$ E, on a random line, bet. secs. 8 and 17.
- 40.00 Set temp. $\frac{1}{4}$ sec. cor.
- 79.86 Intersect N. and S. line, 7 lks. N. of cor. of secs. 8, 9, 16 and 17, hereinbefore described,
Thence I run,
N. $89^{\circ}59'$ W, on a true line, bet. secs. 8 and 17.
Over nearly level land, through dense brush.

Subdivision of T21S R24E.

Chains.	
39.93	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 ¹⁹¹³ ; $\frac{1}{4}$ S8 in N. and S17 in S. half. Dig pits 18 x 18 x 12 ins. E. and W. of cor. 3 ft. dist.; and raise a mound of earth $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high, N of cor.
52.40	Cross wash, 6 lks. wide, course NE.
79.86	The cor. of secs. 7, 8, 17 and 18, hereinbefore described Land, nearly level. Soil, dry loose sandy loam medium texture over 2 ft. deep 1st rate. No timber. Undergrowth, cacti, mesquite.

	v
40.00	West, bet. secs. 7 and 18, on true line, Over level land, through dense brush. 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 ¹⁹¹³ ; $\frac{1}{4}$ S7 in the N. and S18 in S. half. Raise a mound of stone 2 ft, base, $1\frac{1}{2}$ ft. high, N of cor. Pits impracticable.
76.07	Intersect W bdy. of Tp. 3.45 chs. N of cor. of secs. 12 & 13, T21S, R23E, recently estab. by me & described in Book "E" Set an iron post 3 ft. long, 2 ins. in diam, 24 ins. in the ground, for closing corner of secs. 7 and 18, marked on brass cap, 1913; CC W. of center. T21S in N. and S12, S13, R23E in W. half; S 7 in NE. and S18 ^{R24E} in SE. quadrant. Dig pits 24 x 18 x 12 ins., crosswise on each line, N. and S., 3 ft., and E. of cor. 17 ft. dist.; raise a mound of earth 4 ft. base, 2 ft. high, E. of cor. Land, level. Soil, loose sandy loam medium texture over 2 ft. deep 1st rate. No timber, Undergrowth, mesquite.

	v
40.00	N. 0°3'W, bet. secs. 7 and 8, Over level land, through dense brush. 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 ¹⁹¹³ ; $\frac{1}{4}$ S7 in W. and S8. in E. half. Dig pits 18 x 18 x 12 ins., N. and S. of cor. 3 ft. dist.; and raise a mound of earth $3\frac{1}{2}$ ft base, $1\frac{1}{2}$ ft high, W. of cor.
50.00	Leave brush.
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, 1913; T21S R24E in N. half; S6 in NW, S5 in NE, S8 in SE. and S7 in SW. quadrant. Dig pits 18 x 18 x 12 ins., in each sec., $5\frac{1}{2}$ ft. dist.; and raise a mound of earth 4 ft. base, $2\frac{1}{2}$ ft. high, W. of cor. Land, level. Soil, dry loose sandy loam medium texture over 2 ft. deep 1st rate.. No timber. Undergrowth, mesquite, cacti.
Note:	At this cor. I set off 5°15' S. on the decl arc and observe the sun on the meridian at noon; the resulting lat. is 31°37' N.

BOOK 2656

Subdivision of T21S R24E.

Chains.	S. 89°59'E, 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, 7 lks. N. of cor. of secs. 4, 5, 8 and 9, hereinbefore described, Thence I run, N. 82°56'W., on a true line, bet. secs. 5 and 8. Over level land.
39.91	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 $\frac{1913}{1}$ S5 in N. and S8 in S. half. Dig pits 18 x 18 x 12 ins., E. and W. of cor. 3 ft. dist.; and raise a mound of earth 3 $\frac{1}{2}$ ft. base, 1 $\frac{1}{2}$ ft. high, N. of cor.
79.82	The cor. of secs. 5, 6, 7 and 8, hereinbefore described Land, level. Soil, dry loose sandy loam medium texture reddish color over 2 ft. deep 1st rate. No timber.

	West, bet. secs. 6 and 7, on true line Over level land.
7.90	Cross road, bears 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 $\frac{1913}{1}$ S6 in N. and S7 in S. half. Dig pits 18 x 18 x 12 ins., E. and W. of cor. 3 ft. dist.; and raise a mound of earth 3 $\frac{1}{2}$ ft. base, 1 $\frac{1}{2}$ ft. high, N. of cor.
50.85	Cross road, bears NW. and SE.
76.12	Intersect W. bdy. of Tp., 3.44 chs. N. of cor. of secs. 1 & 12, T21S, R23E, recently estab. by me & described in Book "E" Set an iron post 3 ft. long, 2 ins. in diam., 24 ins. in the ground, for closing corner of secs. 6 and 7, marked on brass cap, 1913; CC W. of center T21S in N. and S1, S12, R23E in W. half; S6 in NE. and S7 $\frac{R24E}{1}$ in SE. quadrant. Dig pits 24 x 18 x 12 ins., crosswise on each line, N. and S. 3 ft., and E. of cor. 7 ft. dist.; and raise a mound of earth 4 ft. base, 2 ft. high, E. of cor. Land, level. Soil, rich dry loose reddish sandy loam medium texture over 2 ft. deep 1st rate. No timber.

	N. 0°3'W., bet. secs. 5 and 6. Over level land.
.80	Cross road, bears E. and 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 $\frac{1913}{1}$ S6 in W. and S5 in E. half. Dig pits 18 x 18 x 12 ins., N. and S. of cor. 3 ft. dist.; and raise a mound of earth 3 $\frac{1}{2}$ ft. base, 1 $\frac{1}{2}$ ft. high, W. of cor.
40.30	Cross road, bears NW. and SE.
87.04	Intersect Fourth Standard Parallel South, 15.94 chs. N. 89°44'W. of $\frac{1}{4}$ sec. cor. of sec. 31, T20S R24E, which is an iron post marked and witnessed as described by the Surveyor General. Set an iron post 3 ft. long, 2 ins. in diam., 24 ins. in the ground, for closing corner of secs. 5 and 6, marked on brass cap, 1913; CC S. of center T20SR23ER24ES31S36 in N. half;

Subdivision of T21S R24E.

Chains.

S5 in SE, and
S6 in SW. quadrant.
Dig pits 24 x 18 x 12 ins., crosswise on each line,
E. and W. 3 ft., and S. of cor. 7 ft. dist.; and
raise a mound of earth 4 ft. base, 2 ft. high,
S. of cor.

Land, level.

Soil, loose dry sandy loam medium texture over 2 ft. deep
1st rate.

No timber.

March 7, 1913.

General Description.

This township contains nearly every variety of land from plains to mountains, and the soil ranges from rich sandy loam to rocky and alkaline adobe. The soil in the northern and central is a rich sandy loam generally dry and fairly deep; the soil in the mountains which cover the southern portion of this township, is rocky, shallow and unproductive. There are several patches of alkaline adobe in the east central portion.

There is a small area in the southwestern part of the township covered with scattered oak. Nearly all of the township is covered with a dense growth of undergrowth, composed of mesquite, cacti, ocatilla, blackbrush and catclaw. Sparse grass covers nearly all of the township.

There is no water in this Tp.

There is one settler in sec. 11.

John P. Hesse

U.S. Surveyor.

CERTIFICATE OF ASSISTANTS.

We, the undersigned, hereby certify upon honor that we assisted, to the best of our skill and ability,
John F. Hesse, U. S. Surveyor, during the periods and in the capacities
stated opposite our several signatures, in surveying all those parts or portions of the
subdivision lines of Tp. 21 S. Rg. 24 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 him, and under his direc-
tion; and that said survey has been, in all respects, to the best of our knowledge and belief, well and
faithfully executed.

NAME.	PERIOD OF SERVICE.		CAPACITY.
	BEGUN.	ENDED.	
G. E. Lang	Sept. 6, 1912	March 7, 1913	Chairman
F. G. Ayers	Dec. 20, 1912	March 7, 1913	Chairman
B. S. Jackson	Feb. 9, 1913	March 7, 1913	Assuan
J. D. Hughes	Feb. 9, 1913	March 7, 1913	Plagman
E. C. Hooley	Feb. 22, 1913	March 7, 1913	Coverman

Subscribed and certified to before me on the dates of the final service as shown above.

John F. Hesse
U. S. Surveyor.

FINAL OATH OF UNITED STATES SURVEYOR.

I, John F. Hesse, U. S. Surveyor, do solemnly swear that, in pursuance of special instructions received from the U. S. Surveyor General for Arizona, for Group 18 bearing date of the 19th day of September, 1912, 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 Tp. 21 S. Rg. 24 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 and in the specific manner described in the field notes, and that the foregoing are the original field notes of such survey.

John F. Hesse
U. S. Surveyor.

Subscribed by said John F. Hesse, and sworn to before me }
this 31st day of January, 1914



Frank S. Ingalls
Surveyor General of Arizona.

APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,
Phoenix, Arizona, July 21, 1914

The foregoing field notes of the survey of the Subdivision lines of Township No 21 South, Range No 24 East of the Gila and Salt River Base and Meridian, Arizona

executed by John F. Hesse, U.S. Surveyor under his special instructions dated September 19th, 1912, having been critically examined, and the necessary corrections and explanations made, the said field notes, and the surveys they describe, are hereby approved.

Frank S. 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.~~