

2665

BOOK 2665

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BOOK "O"

BOOK 2665 JAN. 2 1914

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FIELD NOTES

OF THE SURVEY OF THE

Subdivision Lines of ^{Fractional} Tp. 16 S. Rg. 32 E. and

Resurvey of the Third Standard Parallel South

Through Range 32 E., and the East Boundary of

Tp. 16 S. Rg. 31 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 5th, 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 17th, 1912, pursuant to authority contained in the Act of Congress dated August 23rd, 1912.

and Resurvey Survey, commenced May 21, 1913

and Resurvey Survey, completed May 31, 1913

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Frac.
Subdivision of Tr. 16 S. R. 32 E.

Chains

Survey commenced May 21, 1913 and executed with a W. and L.E. Gurley transit, not numbered, with solar attachment. 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, 1912.

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 my camp, which is situated near the cor. of secs. 21, 22, 27 and 28, ^{this Tr.} latitude 32°01'N., longitude 109°04'20"W. I set off 32°01'N. on the lat. arc, 20°12'N.W. on the decl. arc, and at 4h.00m. p.m. l.m.t., determine with the solar a meridian and mark a point thereof, on a stone firmly set in the ground 5 chs. N. of my station.

May 21, 1913.

May 22, 1913: At 3h.35.5m a.m. by my watch, which has correct l. m.t., I observe Polaris at eastern elongation, in accordance with the Manual of Instructions, and mark a point in the line thus determined, on a peg driven in the ground 5 chs, N. of my station.

At 6h.00m. a.m. l.m.t., I lay off the azimuth of Polaris 1°22' to the west, and mark the meridian thus determined, by cutting a small groove in the stone set May 21, on which the meridian falls 0.4ins. East of the mark determined by the solar.

At 7h.00m. a.m. l.m.t., I set off 32°01'N. on the lat. arc, 20°21'N.W. on the decl. arc, and mark a point in the meridian determined with the solar, by a cross on the stone already set 5 chs, N. of my station. This mark falls 0.3 ins. east of the meridian established by the Polaris observation.

The solar apparatus, by p.m. and a.m. observations, defines positions for meridians, respectively about 0°21'W. and 0°16'E. of the meridian established by the Polaris observations; therefore I conclude that the adjustments of the instrument are satisfactory.

The magnetic bearing of the true meridian, at 7h.30m. a.m. is N. 13°-00'W. the angle thus determined gives the mag. decl. as 13°-00' E. May 22, 1913.

May 23, 1913: At 7h.00m a.m. l.m.t., I set off 31°59'N. on the lat. arc, 20°33'W. on the decl. arc and determine a meridian with the solar at the cor. of secs. 5, 6, 31 and 32, on the S. bdy. of Tr. 16 S. R. 32 E, recently estab. by me and described in Thence I run, as per instructions, Book "N"

North, bet. secs. 31 and 32. Over slightly rolling land, through dense brush. 40.00 Set an iron post 3 ft. long, 1 in. diam., 26 ins. in the ground for 1/4 sec. cor., marked on brass cap 1913 S31 in W. and S32 in E. half; dig pits 18x18x12 ins. N. and S. of post 3 ft. dist., and raise mound of earth 3 1/2 ft. base 1 1/2 ft. high, W. of cor.

80.00 Set an iron post 3 ft. long, 2 ind. diam., 24 ins. in the ground for cor. of secs. 29, 30, 31 and 32, marked on brass cap, 1913; T16SR32E. in N. half; S30 in N.W. S29 in N.E. S32 in S.E. and S31 in S.W. quadrant; dig pits 18 x 18 x 12 ins. in each sec. 5 1/2 ft. dist., and raise a mound of earth 4 ft. base, 2 ft. high, W. of cor. Land, slightly rolling. Soil, coarse sand and gravel mixed with scattering rocks

Frac.
Subdivision of Tp. 16 S. R. 32 E.

Timber, none.
Undergrowth, dense greasewood and catclaw.

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- West, bet. secs. 30 and 31, on true line,
Over slightly rolling land, through dense brush.
- 40.00 Set an iron post 3 ft. long, 1 in. diam., 26 ins. in the ground for $\frac{1}{4}$ sec. cor., marked on brass cap¹⁹¹³ S30 in N. and S31 in S. half; dig pits 18 x 18 x 12 ins. E. and W. of post 3 ft. dist., and raise mound of earth $3\frac{1}{2}$ ft. base $1\frac{1}{2}$ ft. high, N. of cor.
- 80.30 Intersect W. bdy. of Tp. at a point from which the cor. of secs. 25 and 36, Tp. 16 S. R. 31 E., bears N 6° 04' E., 94 lks. dist. re-established by me yesterday as hereinafter described. At point of intersection set an iron post 3 ft. long, 2 ins. diam., 24 ins. in the ground for closing cor. of secs. 30 and 31, marked on brass cap, 1913; CC, W. of center; T168 in N. and S25, S36, R31E in W. half; S30 in N.E. and S31, R32E in S.E. quadrant; raise mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high, E. of cor. Pits impracticable. Land, slightly rolling. Soil, coarse gravel and rocks, 3rd. rate. No timber. Undergrowth, dense greasewood and catclaw.

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- North, bet. secs. 29 and 30
Over gently rolling land, through dense brush.
- 40.00 Set an iron post 3 ft. long, 1 in. diam., 26 ins. in the ground for $\frac{1}{4}$ sec. cor., marked on brass cap¹⁹¹³ S30 in W. and S29 in E. half; dig pits 18 x 18 x 12 ins. N. and S. of post, and raise a mound of earth $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high, W. of cor.
- 44.50 Road, bears N.E. and S.W.
- 80.00 Set an iron post 3 ft. long, 2 ins. diam., 24 ins. in the ground for cor. of secs. 19, 20, 29 and 30, marked on brass cap, 1913; T16SR32E in N. half; S19 in E.W. S20 in N.E. S29 in S.E. and S30 in S.W. 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, gently rolling. Soil, sandy loam over 2 ft. deep 1st rate. No timber. Undergrowth, dense greasewood, mesquite and catclaw.

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- West, bet. secs. 19 and 30, on true line,
Over gently rolling land, through dense brush.
- 40.00 Set an iron post 3 ft. long, 1 in. diam., 26 ins. in the ground for $\frac{1}{4}$ sec. cor., marked on brass cap¹⁹¹³ S19 in N. and S30 in S. half; dig pits 18 x 18 x 12 ins. E. and W. of post 3 ft. dist., and raise a mound of earth $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high, N. of cor.
- 69.00 Wash, 7 lks. wide, course N.E.
- 80.40 Intersect W. bdy. of Tp. at a point from which the cor. of secs. 24 and 25, Tp. 16 S. R. 31 E. bears N 0° 10' W., 1.79 chs. dist., re-established by me yesterday as hereinafter described. At point of intersection set an iron post 3 ft. long, 2 ins. diam., 24 ins. in the ground for closing cor. of secs. 19 and 30, marked on brass cap, 1913; CC, W. of center; T168 in N. and S24, S25, R31E in W. half; S19 in N.E. and S30^{R32E} in S.E. quadrant; dig pits 24 x 18 x 12 ins. in each

Frac.
Subdivision of Tp. 16 S. R. 31 E.

Chains. crosswise on each line N. and S. 3 ft. and E. 7 ft. see dist., and raise a mound of earth 4 ft. base, 2 ft. high, E. of cor.
Land, gently rolling.
Soil, sandy loam over 2 ft. deep, 1st rate.
No timber.
Undergrowth, dense greasewood.

May 23¹⁹¹³ At the cor. of secs. 19, 20, 29 and 30, I set off ^{hereinbefore described} 20°35'N. on the decl. arc and observe the sun on the meridian at noon; the resulting latitude is 32°01'N.
North, bet. secs. 19 and 20
Over gently rolling land, through dense brush.
40.00 Set an iron post 3 ft. long, 1 in. diam., 26 ins. in the ground for $\frac{1}{4}$ sec. cor., marked on brass cap ¹⁹¹³ S19 in W. and S20 in E. half; dig pits 18 x 18 x 12 ins. N. and S. of post 3 ft. dist., and raise mound of earth 3 $\frac{1}{2}$ ft. base 1 $\frac{1}{2}$ ft. high, W. of cor.
30.00 Set an iron post 3 ft. long, 2 ins. diam., 26 ins. in the ground for cor. of secs. 17, 18, 19 and 20, marked on brass cap, 1913;
T16 S32E in N. half;
S18 in N.W.
S17 in N.E.
S20 in S.E. and
S19 in S.W. quadrant; dig pits 18x18x12 ins. in each sec., 5 $\frac{1}{2}$ ft. dist., and raise mound of earth 4 ft. base, 2 ft. high, W. of cor.
Land, gently rolling.
Soil, sandy loam over 2 ft. deep, 1st rate.
No timber.
Undergrowth, dense greasewood, mesquite and catclaw.

West, bet. secs. 18 and 19 on true line.
Over gently rolling land, through dense brush.
25.40 Road, bears N.E. and S.W.
40.00 Set an iron post 3 ft. long, 1 in. diam., 26 ins. in the ground for $\frac{1}{4}$ sec. cor., marked on brass cap ¹⁹¹³ S18 in N. and S19 in S. half; dig pits 18x18x12 ins. E. and W. of post 3 ft. dist., and raise mound of earth 3 $\frac{1}{2}$ ft. base 1 $\frac{1}{2}$ ft. high, N. of cor.
80.60 Intersect W. bdy. of Tp. at a point from which the cor. of secs. 13 and 24, Tp. 16 S. R. 31 E. bears N0°07'W. 2.83 chs. dist. re-established by me yesterday as ^{hereinafter described}
At point of intersection set an iron post 3 ft. long, 2 ins. diam., 24 ins. in the ground for closing cor. of ~~sec~~ secs. 18 and 19, marked on brass cap, 1913;
CC, WinoY. center;
T16 S in N. and
S13, S24, R31E in W. half;
S18 in N.E. and
S19, R32E in S.E. quadrant, dig pits 24x18x12 ins. crosswise on each line, N. and S. 3 ft., and E. 7 ft. dist., and raise mound of earth 4 ft. base, 2 ft. high E. of cor.
Land, gently rolling.
Soil, sandy loam over 2 ft. deep 1st rate.
No timber.
Undergrowth, dense greasewood and mesquite.

North, bet. secs. 17 and 18.
Over gently rolling land, through dense brush.
23.40 Road, bears N.E. and S.W.
40.00 Set an iron post 3 ft. long, 1 in. diam., 26 ins. in the ground for $\frac{1}{4}$ sec. cor., marked on brass cap ¹⁹¹³ S18 in W. and S17 in E. half; dig pits 18x18x12 ins. N. and S. of post, 3 ft. dist., and raise mound of earth 3 $\frac{1}{2}$ ft. base, 1 $\frac{1}{2}$ ft. high, W. of cor.

Frac.
Subdivision of, Tr. 16 S. R. 32 E.

Chains.

80.00 Set an iron post 3 ft. long, 2 ins. diam., 24 ins. in the ground for cor. of secs. 7, 8, 17 and 18, marked on brass cap, 1913;
T16SR32E in N. half;
S7 in N.W.
S8 in N.E.
S17 in S.E. and
S18 in S.W. quadrant; dig pits 18x18x12 ins. in each sec. 5½ ft. dist., and raise mound of earth 4 ft. base, 2 ft. high, W. of cor.
Land, gently rolling.
Soil, sandy loam over 2 ft. deep, 1st rate.
No timber.
Undergrowth, dense greasewood and mesquite.

West, bet. secs. 7 and 18 on true line,
Over gently rolling land, through dense brush.
40.00 Set an iron post 3 ft. long, 1 in. diam., 26 ins. in the ground for ¼ sec. cor., marked on brass cap, 1913; S7 in N. and S18 in S. half; dig pits 18x18x12 ins. E. and W. of post 3 ft. dist., and raise mound of earth 3½ ft. base 1½ ft. high, N. of cor.
80.89 Intersect W. bdy. of Tr. at a point from which the cor. of secs. 12 and 13 Tp. 16 S. R. 31 E. bears NO°09'W. 3.81 chs. dist., re-estab. by me yesterday as hereinafter described,
At point of intersection set an iron post 3 ft. long, 2 ins. diam., 24 ins. in the ground for closing cor. of secs. 7 and 18, marked on brass cap, 1913;
CC, W. of center.
T16S in N. and
S12, S13, R31E in W. half;
S7 in N.E. and
S18, R32E in S.E. quadrant; dig pits 24x18x12 ins. N. and S. crosswise on each line, N. and S. 3 ft. and E. of post 7 ft. dist., and raise mound of earth 4 ft. base, 2 ft. high, E. of cor.
Land, gently rolling.
Soil, sandy loam, over 2 ft. deep, 1st rate.
No timber.
Undergrowth, dense mesquite and greasewood.
May 23, 1913.

May 24¹⁹¹³ AT 7h.00m. a.m. l.m.t., I set off 32°02½'N. on the lat. arc, 20°44'N. on the decl. arc and determine a meridian with the solar at the cor. of secs. 7, 8, 17 and 18, hereinbefore described,
Thence I run
North, bet. secs. 7 and 8
Over gently rolling land, through dense brush,
40.00 Set an iron post 3 ft. long, 1 in. diam., 26 ins. in the ground for ¼ sec. cor., marked on brass cap, 1913; S7 in W. and S8 in E. half; dig pits 18x18x12 ins. N. and S. of post 3 ft. dist., and raise mound of earth 3½ ft. base, 1½ ft. high, W. of cor.
80.00 Set an iron post 3 ft. long, 2 ins. diam., 24 ins. in the ground for cor. of secs. 5, 6, 7 and 8, marked on brass cap, 1913;
T16SR32E in N. half;
S6 in N.W.
S5 in N.E.
S8 in S.E. and
S7 in S.W. quadrant; dig pits 18x18x12 ins. in each sec. 5½ ft. dist., and raise mound of earth 4 ft. base, 2 ft. high, W. of cor.
Land, gently rolling.
Soil, sandy loam, over 2 ft. deep, 1st rate.
No timber.
Undergrowth, dense mesquite and greasewood.

West, bet. secs. 6 and 7, on true line,
Over gently rolling land; through dense brush

Frac.
Subdivision of Tp. 16 S. R. 32 E.

Chains.
40.00 Set an iron post 3 ft. long, 1 in. diam., 26 ins. in the ground for $\frac{1}{4}$ sec. cor., marked on brass cap¹⁹¹³ S6 in N. and S7 in S. half, dig pits 18x18x12 ins. E. and W. of post, 3 ft. dist., and raise mound of earth $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high, N. of cor.

81.42 Intersect W. bdy. of Tp. at a point from which the cor. of secs. 1 and 12, Tp. 16 S. R. 31 E. bears $NO^{\circ}46'W.$ 4.82 chs. dist., re-estab. by me May 22, 1913, as hereinafter described, At point of intersection set an iron post 3 ft. long, 2 ins. diam., 24 ins. in the ground for closing cor. of 6 and 7, marked on brass cap, 1913; CC, W. of center. T16S in N. and S; S1, S12, R31E in W. half; S6 in N.E. and S7, R32E in S.E. quadrant; dig pits 24x18x12 ins. cross-wise on each line, N. and S. 3 ft. and E. of post 7 ft. dist., and raise mound of earth 4 ft. base, 2 ft. high, E. of cor. Land, gently rolling Soil, coarse gravel and sand, 2nd, rate. No timber. Undergrowth, dense greasewood and mesquite.

40.00 North, bet. secs. 5 and 6, on true line, Over gently rolling land, through dense brush. Set an iron post 3 ft. long, 1 in. diam., 26 ins. in the ground for $\frac{1}{4}$ sec. cor., marked on brass cap¹⁹¹³ S6 in W. and S5 in E. half; dig pits 18x18x12 ins. N. and S. of post 3 ft. dist., and raise mound of earth $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high, W. of cor.

101.70 Intersect N. bdy. of Tp. at a point from which the Standard cor. of secs 31 and 32, Tp. 15 S. R. 32 E., bears $S89^{\circ}44'W.$ 8.39 chs. dist. re-estab. by me this day as hereinafter described, At point of intersection set an iron post 3 ft. long, 2 ins. diam., 24 ins. in the ground for closing cor. of secs 5 and 6, marked on brass cap, 1913; CC, S of center. T15S, S31, S32 in N. T16S in S. and R32E in W. half; S5 in S.E. and S6 in S.W. quadrant; raise mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high. S. of cor. Pits impracticable. Land, gently rolling. Soil, coarse gravel and sand mixed with rocks, 3rd rate. No timber. Undergrowth, dense greasewood and mesquite.

May 24, 1913.

May 26¹⁹¹³ At 7 h.00m. a.m. l.m.t., I set off $31^{\circ}59'N.$ on the lat. arc, $21^{\circ}06'N.$ 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 "N" Thence I run $NO^{\circ}01'E,$ bet. secs. 32 and 33 Over rolling land, through dense brush.

40.00 Set an iron post 3 ft. long, 1 in. diam., 26 ins. in the ground for $\frac{1}{4}$ sec. cor., marked on brass cap¹⁹¹³ S32 in W. and S33 in E. half; dig pits 18x18x12 ins. N. and S. of post, 3 ft. dist., and raise mound of earth $3\frac{1}{2}$ ft. base $1\frac{1}{2}$ ft. high, W. of cor.

80.00 Set an iron post 3 ft. long, 2 ins diam., 24 ins. in the ground for cor. of secs. 28, 29, 32 and 33, marked on brass cap, 1913; T16SR32E in N. half; S29 in N.W. S28 in N.E. S33 in S.E. and

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Subdivision of Tr. 16 S. R. 32 E.

Chains. S32 in S.W. quadrant; dig pits 18x18x12 ins. in each sec. 5 1/2 ft. dist., and raise mound of earth 4 ft. base, 2 ft. high, W. of cor.
Land, rolling.
Soil, coarse gravel and sand mixed with rocks, 3rd rate.
No timber.
Undergrowth, greasewood and mesquite.

West, on random line, bet. secs. 29 and 32
40.00 Set temp. 1/4 sec. cor.
79.98 Intersect N. and S. line 3 lks. N. of cor. of secs. 29, 30, 31 and 32, hereinbefore described,

Thence I run

N89°59'E, on true line, bet. secs. 29 and 32
Over rolling land, through dense brush.
39.99 Set an iron post 3 ft. long, 1 in. diam., 26 ins. in the ground for 1/4 sec. cor., marked on brass cap, 1913, S29 in N. and S32 in S. half; dig pits 18x18x12 ins. E. and W. of post 3 ft. dist., and raise mound of earth 3 1/2 ft. base 1 1/2 ft. high, N. of cor.

79.98 The cor. of secs. 28, 29, 32 and 33, hereinbefore described.
Land, rolling.
Soil, coarse gravel and sand mixed with rocks, 3rd rate.
No timber.
Undergrowth, dense greasewood, catclaw and mesquite.

N0°01'E., bet. secs. 28 and 29
Over gently rolling land, through dense brush.
34.62 Road, bears N.W. and S.E.
40.00 Set an iron post 3 ft. long, 1 in. diam., 26 ins. in the ground for 1/4 sec. cor., marked on brass cap, 1913, S29 in W. and S28 in E. half; dig pits 18x18x12 ins. N. and S. of post 3 ft. dist., and raise mound of earth 3 1/2 ft. base, 1 1/2 ft. high, W. of cor.

80.00 Set an iron post 3 ft. long, 2 ins. diam., 24 ins. in the ground for cor. of secs. 20, 21, 28 and 29, marked on brass cap, 1913;
T16SR32E in N. half;
S20 in N.W.
S21 in N.E.
S22 in S.E., and
S29 in S.W. quadrant, dig pits 18x18x12 ins. in each sec. 5 1/2 ft. dist., and raise mound of earth 4 ft. base, 2 ft. high, W. of cor.
Land, gently rolling.
Soil, sandy loam over 2 ft. deep, 1st rate.
No timber.
Undergrowth, greasewood, catclaw and mesquite.

S89°59'W, on random line, bet. secs. 20 and 29
40.00 Set temp. 1/4 sec. cor.
80.02 Intersect N. and S. line at the cor. of secs. 19, 20, 29 and 30, hereinbefore described,

Thence I run

N89°59'E, on true line, bet. secs. 20 and 29
Over gently rolling land, through dense brush.
40.01 Set an iron post 3 ft. long, 1 in. diam., 26 ins. in the ground for 1/4 sec. cor., marked on brass cap, 1913, S20 in N. and S29 in S. half; dig pits 18x18x12 ins. E. and W. of post 3 ft. dist., and raise mound of earth 3 1/2 ft. base, 1 1/2 ft. high, N. of cor.

80.02 The cor. of secs. 20, 21, 28 and 29, hereinbefore described.
Land, gently rolling.
Soil, coarse gravel and sand, 2nd rate.
No timber,
Undergrowth, dense greasewood and mesquite.

May 26¹⁹¹³ At this cor. I set off 21°07'N. on the decl. arc, and observe the sun on the meridian at noon; the resulting latitude is 32°01'N.

Frac.
Subdivision of, Tn. 16 S. R. 32 E.

Chains,	NO ^o 01'E, bet. secs. 20 and 21
40.00	Over gently rolling land, through dense brush. Set an iron post 3 ft. long, 1 in. diam., 26 ins. in the ground for $\frac{1}{4}$ sec. cor., marked on brass cap ¹⁹¹³ S20 in W. and S21 in E. half; dig pits 18x18x12 ins. N. and S. of post, 3 ft. dist., and raise mound of earth 3 $\frac{1}{2}$ ft base, 1 $\frac{1}{2}$ ft. high, W. of cor.
42.45	Road, bears N.E. and S.W.
80.00	Set an iron post 3 ft. long, 2 ins. diam., 26 ins. in the ground for cor. of secs. 16, 17, 20 and 21, marked on brass cap, 1913; T16SR32E in N. half; S17 in N.W. S16 in N.E. S21 in S.E. and S20 in S.W. quadrant; dig pits 18x18x12 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, gently rolling. Soil, sandy loam over 2 ft. deep, 1st rate. No timber. Undergrowth, dense greasewood and scattering mesquite.

40.00	S89 ^o 59'W, on random line, bet. secs. 17 and 20
80.00	Set temp. $\frac{1}{4}$ sec. cor. Intersect N. and S. line 2 lks. S. of cor. of secs. 17, 18, 19 and 20, hereinbefore described Thence I run East on true line bet. secs. 17 and 20
40.00	Over gently rolling land, through dense brush. Set an iron post 3 ft. long, 1 in. diam., 26 ins. in the ground for $\frac{1}{4}$ sec. cor., marked on brass cap ¹⁹¹³ S17 in N. and S20 in S. half; dig pits 18x18x12 ins. E. and W. of post 3 ft. dist., and raise mound of earth 3 $\frac{1}{2}$ ft. base, 1 $\frac{1}{2}$ ft. high, N. of cor.
80.00	The cor. of secs. 16, 17, 20 and 21, hereinbefore described. Land, gently rolling. Soil, sandy loam, over 2 ft. deep, 1st rate. No timber. Undergrowth, dense greasewood and mesquite.

4.80	NO ^o 01'E, bet. secs. 16 and 17. Over level land, through dense brush. Wash, 18 lks. wide, course N.E.
40.00	Set an iron post 3 ft. long, 1 in. diam., 26 ins. in the ground for $\frac{1}{4}$ sec. cor., marked on brass cap ¹⁹¹³ S17 in W. and S16 in E. half; dig pits 18x18x12 ins. N. and S. of post 3 ft. dist., and raise mound of earth 3 $\frac{1}{2}$ ft. base, 1 $\frac{1}{2}$ ft. high, W. of cor.
80.00	Set an iron post 3 ft. long, 2 ind. diam., 24 ins. in the ground for cor. of secs. 8, 9, 16 and 17, marked on brass cap, 1913; T16SR32E in N. half; S8 in N.W. S9 in N.E. S16 in S.E. and S17 in S.W. quadrant; dig pits 18x18x12 ins. in each sec. 5 $\frac{1}{2}$ ft. dist., and raise mound of earth 4 ft. base, 2 ft. high, W. of cor. Land, level. Soil, sandy loam over 2 ft. deep, 1st rate. No timber. Undergrowth, dense greasewood and mesquite.

40.00	West, on random line, bet. secs. 8 and 17
79.96	Set temp. $\frac{1}{4}$ sec. cor. Intersect N. and S. line 12 lks. S. of cor. of secs. 7, 8, 17 and 18, hereinbefore described,

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Subdivision of Tr. 16 S. E. 32 E.

Chains. Thence I run
 S89°55'E, on true line, bet. secs. 8 and 17.
 Over gently rolling land, through dense brush.
 31.95 Wash, 8 lks. wide, course N.E.
 39.98 Set an iron post 3 ft. long, 1 in. diam., 26 ins. in the
 ground for $\frac{1}{4}$ sec. cor., marked on brass cap ¹⁹¹³ S8 in N. and
 S17 in S. half; dig pits 18x18x12 ins. E. and W. of post
 3 ft. dist., and raise mound of earth, 3 $\frac{1}{2}$ ft. base, 1 $\frac{1}{2}$
 ft. high, N. of cor.
 79.96 The cor. of secs. 8, 9, 16 and 17, hereinbefore described.
 Land, gently rolling.
 Soil, sandy loam over 2 ft. deep, 1st rate.
 No timber.
 Undergrowth, dense greasewood, mesquite and catclaw.

May 26, 1913.

 May 28¹⁹¹³ At 7h.00m. a.m. l.m.t., I set off 32°03 $\frac{1}{2}$ 'N. on
 the lat. arc, 21°26 $\frac{1}{2}$ 'N. on the decl. arc and determine
 with the solar a meridian at the cor. of secs. 8, 9, 16
 and 17, hereinbefore described

Thence I run

40.00 NO°01'E., bet. secs. 8 and 9
 Over gently rolling land, through dense brush
 Set an iron post 3 ft. long, 1 in. diam., 26 ins. in the
 ground for $\frac{1}{4}$ sec. cor., marked on brass cap ¹⁹¹³ S8 in W.
 and S9 in E. half; dig pits 18x18x12 ins. N. and S. of
 post 3 ft. dist., and raise mound of earth 3 $\frac{1}{2}$ ft. base
 1 $\frac{1}{2}$ ft. high, W. of cor.
 78.95 Road, bears N.W. and S.E.
 80.00 Set an iron post 3 ft. long, 2 ins. diam., 24 ins. in the
 ground for cor. of secs. 4, 5, 8, and 9, marked on brass
 cap, 1913;
 T16SR32E in N. half;
 S5 in N.W.
 S4 in N.E.
 S9 in S.E. and
 S8 in S.W. quadrant; dig pits 18x18x12 ins. in each sec.
 5 $\frac{1}{2}$ ft. dist., and raise mound of earth 4 ft. base, 2 ft.
 high, W. of cor.
 Land, gently rolling.
 Soil, sandy loam over 2 ft. deep, 1st rate.
 No timber.
 Undergrowth, dense greasewood and mesquite.

 40.00 N89°55'W, on random line, bet. secs. 5 and 8.
 80.04 Set temp. $\frac{1}{4}$ sec. cor.
 Intersect N. and S. line 16 lks. N. of cor. of secs. 5,
 6, 7 and 8, hereinbefore described,

Thence I run

40.02 N89°58'E on true line bet. secs. 5 and 8
 Over rolling land, through dense brush.
 Set an iron post 3 ft. long, 1 in. diam., 26 ins. in the
 ground for $\frac{1}{4}$ sec. cor., marked on brass cap ¹⁹¹³ S5 in N.
 and S8 in S. half; dig pits 18x18x12 ins. E. and W. of
 post 3 ft. dist., and raise mound of earth 3 $\frac{1}{2}$ ft. base,
 1 $\frac{1}{2}$ ft. high, N. of cor.
 76.05 Road, bears N.W. and S.E.
 80.04 The cor. of secs. 4, 5, 8, and 9, hereinbefore described.
 Land, rolling.
 Soil, sandy loam mixed with coarse gravel, 2nd, rate.
 No timber.
 Undergrowth, dense greasewood and mesquite.

 40.00 NO°01'E, bet. secs. 4 and 5.
 Over gently rolling land, through dense brush.
 Set an iron post 3 ft. long, 1 in. diam., 26 ins. in the
 ground for $\frac{1}{4}$ sec. cor., marked on brass cap ¹⁹¹³ S5 in W.
 and S4 in E. half; dig pits 18x18x12 ins. N. and S. of

Frac.
Subdivision Of, Tr. 16 S. R. 32 E.

Chains. post, 3 ft. dist., and raise mound of earth 3 1/2 ft. base, 1 1/2 ft. high, W. of cor.
 78.30 Wash, 20 lks. wide, course N.E.
 101.81 Intersect 3rd Standard Parallel South, at a point from which the Standard cor. of secs. 32 and 33 bears S89°59'W. 7.78 chs. dist. re-estab. by me May 24, 1913 as hereinbefore described
 At point of intersection set an iron post 3 ft. long, 3 ins. diam., 24 ins. in the ground for closing cor. of secs 4 and 5, marked on brass cap, 1913;
 CC, S. of center.
 T15S, S32, S33 in N.
 T16S in S. and
 R32E in W. half;
 S4 in S.E. and
 S5 in S.W. quadrant; dig pits 24x18x12 ins. crosswise on each line, E. and W. 3 ft. and S. of post 7 ft. dist., and raise mound of earth 4 ft. base, 2 ft. high, S. of cor.
 Land, gently rolling.
 Soil, sandy loam over 2 ft. deep, 1st rate.
 No timber.
 Undergrowth, dense greasewood and mesquite.

May 28, 1913.

 May 27¹⁹¹³ At 7h.00m. a.m. l.m.t., I set off 31°59'N on the lat. arc, 21°16'W. on the decl. arc and determine with the solar meridian at the cor. of secs. 3, 4, 33 and 34. on S. bdy. of Tr. recently established by me as described in Book "N", Thence I run, N0°01'E, bet. secs. 33 and 34

Over level land, through dense brush.
 1.87 Road, bears N.E. and S.W.
 13.85 Road, bears N.W. and S.E.
 40.00 Set an iron post 3 ft. long, 1 in. diam., 24 ins. in the ground for 1/4 sec. cor., marked on brass cap, 1913; S33 in W. and S34 in E. half; dig pits 18x18x12 ins. N. and S. of post 3 ft. dist., and raise mound of earth 3 1/2 ft. base, 1 1/2 ft. high, W. of cor.
 80.00 Set an iron post 3 ft. long, 2 ins. diam., 24 ins. in the ground for cor. of secs., 27, 28, 33 and 34, marked on brass cap, 1913;
 T16SR32E in N. half;
 S28 in N.W.
 S27 in N.E.
 S34 in S.E. and
 S33 in S.W. quadrant, dig pits 18x18x12 ins. in each sec. 3 1/2 ft. dist., and raise mound of earth 4 ft. base, 2 ft. high, W. of cor.
 Land, level.
 Soil, sandy loam over 2 ft. deep, 1st rate.
 No timber
 Undergrowth, dense greasewood and mesquite.

 West, on random line, bet. secs. 28 and 33
 40.00 Set temp. 1/4 sec. cor.
 80.02 Intersect N. and S. line at the cor. of secs. 28, 29, 32 and 33, hereinbefore described,
 Thence I run

East, on true line, bet. secs. 28 and 33
 Over gently rolling land, through dense brush.
 39.60 Road, bears N.W. and S.E.
 40.01 Set an iron post 3 ft. long, 1 in. diam., 24 ins. in the ground for 1/4 sec. cor., marked on brass cap, 1913; S28 in N. and S33 in S. half; dig pits 18x18x12 ins. E. and W. of post 3 ft. dist., and raise mound of earth 3 1/2 ft. base, 1 1/2 ft. high, N. of cor.
 80.02 The cor. of secs. 27, 28, 33 and 34, hereinbefore described.
 Land, gently rolling.
 Soil, sandy loam, over 2 ft. deep, 1st rate.
 No timber.
 Undergrowth, dense greasewood and mesquite.

Frac.
Subdivision of Tr. 13 S. R. 32 E.

Chains	N6°01'E., bet. secs. 27 and 28.
19.04	Over gently rolling land, through dense brush.
24.45	Road, bears N.W. and S.E.
40.00	Road, bears N.E. and S.W.
40.00	Set an iron post 3 ft. long, 1 in. diam., 26 ins. in the ground for $\frac{1}{4}$ sec. cor., marked on brass cap ¹⁹¹³ S28 in W. and S27 in E. half; dig pits 18x18x12 ins. N. and S. of post, 3 ft. dist., and raise mound of earth $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high, W. of cor.
74.00	Leave brush, bears N.W. and S.E.
80.00	Set an iron post 3 ft. long, 1 in. diam., 24 ins. in the ground for cor. of secs. 21, 22, 27 and 28, marked on brass cap, 1913;
	T16SR32E in N. half;
	S21 in N.W.
	S22 in N.E.
	S27 in S.E. and
	S28 in S.W. quadrant; dig pits 18x18x12 ins. in each sec. $5\frac{1}{2}$ ft. dist., and raise mound of earth 4 ft. base, 2 ft high, W. of cor.
	Land, gently rolling.
	Soil, sandy loam over 2 ft. deep, 1st rate.
	No timber.
	Undergrowth, dense greasewood and mesquite 74.00 chs.

	West, on random line, bet. secs. 21 and 28
40.00	Set temp. $\frac{1}{4}$ sec. cor.
80.04	Intersect N. and S. line 5 lks. N. of cor. of secs. 20, 21, 22 and 29, hereinbefore described
	Thence I run
	N89°58'E., on true line, bet. secs. 21 and 28
	Over gently rolling land, through dense brush.
34.00	Leave brush, bears N.W. and S.E.
40.02	Set an iron post 3 ft. long, 1 in. diam., 26 ins. in the ground for $\frac{1}{4}$ sec. cor., marked on brass cap ¹⁹¹³ S21 in N. and S28 in S. half; dig pits 18x18x12 ins. E. and W. of post 3 ft. dist., and raise mound of earth $3\frac{1}{2}$ ft. base $1\frac{1}{2}$ ft. high, N. of cor.
80.04	The cor. of secs. 21, 22, 27 and 28, hereinbefore described.
	Land, gently rolling.
	Soil, sandy loam over 2 ft. deep, 1st rate.
	No timber.
	Undergrowth, dense greasewood and mesquite 34.00 chs.
	May 27 ¹⁹¹³ At this cor. I set off $21^{\circ}16\frac{1}{2}'$ N. on the decl. arc and observe the sun on the meridian at noon; the resulting latitude is $32^{\circ}01'$ N.

	N6°01'E., bet. secs. 21 and 22
	Over gently rolling land.
11.00	Enter dense brush, bears N.W. and S.E.
40.00	Set an iron post 3 ft. long, 1 in. diam., 26 ins. in the ground for $\frac{1}{4}$ sec. cor., marked on brass cap ¹⁹¹³ S21 in W. and S22 in E. half; dig pits 18x18x12 ins. N. and S. of post, 3 ft. dist., and raise mound of earth $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high, W. of cor.
80.00	Set an iron post 3 ft. long, 2 ins. diam., 24 ins. in the ground for cor. of secs. 15, 16, 21 and 22, marked on brass cap, 1913;
	T16SR32E in N. half;
	S16 in N.W.
	S15 in N.E.
	S22 in S.E. and
	S21 in S.W. quadrant; dig pits 18x18x12 ins. in each sec. $5\frac{1}{2}$ ft. dist., and raise mound of earth 4 ft. base, 2 ft. high, W. of cor.
	Land, gently rolling.
	Soil, sandy loam, over 2 ft. deep, 1st rate.
	No timber.
	Undergrowth, dense greasewood and mesquite 69.00 chs.

Frac.
Subdivision of T₁ 16 S. R. 22 E.

Chains. S89°58'W., on random line, bet. secs. 16 and 21
 40.00 Set temp. $\frac{1}{4}$ sec. cor.
 80.06 Intersect N. and S. line 2 lks. S. of cor. of secs. 16,
 17, 20 and 21, hereinbefore described
 Thence I run
 N89°59'E. on true line bet. secs. 16 and 21
 Over gently rolling land, through dense brush.
~~88.46 Road, bears N.E. and S.W.~~
 40.03 Set an iron post 3 ft. long, 1 in. diam., 26 ins. in the
 ground for $\frac{1}{4}$ sec. cor., marked on brass cap ¹⁹¹³ S16 in N.
 and S21 in S. half; dig pits 18x18x12 ins. E. and W. of
 post, 3 ft. dist., and raise mound of earth 3 $\frac{1}{2}$ ft. base,
 1 $\frac{1}{2}$ ft. high, N. of cor.
 68.43 Road, bears N.E. and S.W.
 80.06 The cor. of secs. 15, 16, 21 and 22, hereinbefore described:
 Land, gently rolling.
 Soil, sandy loam, over 2 ft. deep, 1st rate.
 No timber.
 Undergrowth, dense greasewood and mesquite.

 N0°01'E., bet. secs. 15 and 16
 Over gently rolling land, through dense brush.
 19.50 Road, bears N.E. and S.W.
 35.59 Road, bears E. and W.
 40.00 Set an iron post 3 ft. long, 1 in. diam., 26 ins. in the
 ground for $\frac{1}{4}$ sec. cor., marked on brass cap ¹⁹¹³ S16 in W.
 and S15 in E. half; dig pits 18x18x12 ins. N. and S. of
 post, 3 ft. dist., and raise mound of earth 3 $\frac{1}{2}$ ft. base,
 1 $\frac{1}{2}$ ft. high, W. of cor.
 80.00 Point for cor. of secs. 9, 10, 15 and 16 falls in wash 8
 lks. wide, course N.E., therefore at
 82.00 Set an iron post 3 ft. long, 2 ins. diam., 24 ins. in the
 ground for witness cor. of secs. 9, 10, 15 and 16, marked
 on brass cap, 1913;
 WC N. of center;
 T16SR32E in N. half;
 S9 in N.W.
 S10 in N.E.
 S15 in S.E. and
 S16 in S.W. quadrant; dig pits 18x18x12 ins. N.W., N.E.,
 S.E., and S.W. of post, and raise mound of earth 3 ft.
 base, 2 ft. high, W. of cor.
 Land, gently rolling.
 Soil, sandy loam, over 2 ft. deep, 1st rate.
 No timber.
 Undergrowth, dense greasewood and mesquite.

May 27, 1913.

 May 28 ¹⁹¹³ At true point for cor. of secs. 9, 10, 15 and 16, ^{in wash}
 I set off 21°26 $\frac{1}{2}$ ' N on the decl. arc and observe the sun
 on the meridian at noon; the resulting latitude is 32°02 $\frac{1}{2}$ '
 S89°59'W., on random line, bet. secs. 9 and 16
 40.00 Set temp. $\frac{1}{4}$ sec. cor.
 80.10 Intersect N. and S. line 5 lks. N. of cor. of secs. 8, 9,
 16 and 17, hereinbefore described,
 Thence I run
 N89°57'E., on true line, bet. secs. 9 and 16
 Over gently rolling land, through dense brush
 40.05 Set an iron post 3 ft. long, 1 in. diam., 26 ins. in the
 ground for $\frac{1}{4}$ sec. cor., marked on brass cap ¹⁹¹³ S9 in N. and
 S16 in S. half; dig pits 18x18x12 ins. E. and W. of post
 3 ft. dist., and raise mound of earth 3 $\frac{1}{2}$ ft. base, 1 $\frac{1}{2}$ ft.
 high, N. of cor.
 80.10 True point for cor. of secs., 9, 10, 15 and 16, in wash
 8 lks. wide, course N.E. ^{horizontal line}
 Land, gently rolling
 Soil, sandy loam, over 2 ft. deep, 1st rate.
 No timber.
 Undergrowth, dense greasewood and mesquite.

Chains. NO^o01'E., bet. secs. 9 and 10, from true point for cor. Over gently rolling land, through dense brush.

2.00 Witness cor. ^{to cor.} of secs., 9, 10, 15 and 16, *hereinbefore described.*

36.95 Road, bears S.E. and N.W.

40.00 Set an iron post 3 ft. long, 1 in. diam., 26 ins. in the ground for $\frac{1}{4}$ sec. cor., marked on brass cap ¹⁹¹³ S9 in W. and S10 in E. half; dig pits 18x18x12 ins. N. and S. of post, 3 ft. dist., and raise mound of earth $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high, W. of cor.

69.20 Wash, 15 lks. wide, course N.E.

80.00 Set an iron post 3 ft. long, 2 ins. diam., 24 ins. in the ground for cor. of secs. 3, 4, 9 and 10, marked on brass cap ¹⁹¹³ T16SR32E in N. half; S4 in N.W. S3 in N.E. S10 in S.E. and S9 in S.W. quadrant; dig pits 18x18x12 ins. in each sec. $5\frac{1}{2}$ ft. dist., and raise mound of earth 4 ft. base, 2 ft. high, W. of cor.

Land, gently rolling.
Soil, sandy loam, over 2 ft. deep, 1st rate.
No timber.
Undergrowth, dense greasewood and mesquite.

S89^o57'W, on random line, bet. secs. 4 and 9.

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

80.14 Intersect N. and S. line 3 lks. N. of cor. of secs. 4, 5, 8 and 9, *hereinbefore described,*

Thence I run

N89^o56'E., on true line, bet. secs. 4 and 9

Over gently rolling land, through dense brush.

40.07 Set an iron post 3 ft. long, 1 in. diam., 26 ins. in the ground for $\frac{1}{4}$ sec. cor., marked on brass cap ¹⁹¹³ S4 in N. and S9 in S. half; dig pits 18x18x12 ins. E. and W. of post 3 ft. dist., and raise mound of earth $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high, N. of cor.

80.14 The cor. of secs. 3, 4, 9 and 10, *hereinbefore described.*

Land, gently rolling.
Soil, sandy loam, over 2 ft. deep, 1st rate.
No timber.
Undergrowth, dense greasewood and mesquite,

NO^o01'E., bet. secs. 3 and 4.

Over gently rolling land, through dense brush

40.00 Set an iron post 3 ft. long, 1 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; dig pits 18x18x12 ins. N. and S. of post 3 ft. dist., and raise mound of earth $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high, W. of cor.

56.30 Road, bears N.E. and S.W.

102.24 Intersect 3rd Standard Parallel South at a point from which the Standard cor. of secs., 33 and 34 bears S89^o36'W 6.77 chs. dist. re-estab. by me May 24, 1913 as hereinafter described.

At point of intersection set an iron post 3 ft. long, 2 ins. diam., 24 ins. in the ground for closing cor. of secs. 3 and 4, marked on brass cap, ¹⁹¹³ CC, S. of center.
T15SR32E, S33, S34 in N. half;
S3 in S.E. and S4 in S.W. quadrant; dig pits 24x18x12 ins. crosswise on each line, E. and W. 3 ft. and S. of post 7 ft. dist., and raise mound of earth 4 ft. base, 2 ft. high. S. of cor.

Land, gently rolling.
Soil, sandy loam over 2 ft. deep 1st rate.
No timber.
Undergrowth, dense greasewood, mesquite and catclaw.

Frac.
Subdivision of, Tp. 16 S. R. 32 E

Chains. May 29¹⁹¹³ At 9¹³ a.m. I set off 31°59'N on the lat. arc, 31°36'N. on the decl. arc and determine with the solar a meridian at the cor. of secs. 2, 3, 34 and 35 on S. bdy. of Tp. recently established by me as described in Book "N", Thence I run, N0°02'E, bet. secs. 34 and 35
 Over level land, through dense brush.
 1.80 Fence, bears E. and W., leave dense brush and enter cultivated field.
 18.38 Fence, bears E and W. leave cultivated field.
 40.00 Set an iron post 3 ft. long, 1 in. diam., 26 ins. in the ground for $\frac{1}{4}$ sec. cor., marked on brass cap¹⁹¹³ S34 in W and S35 in E. half; dig pits 18x18x12 ins. N. and S. of post 3 ft. dist., and raise mound of earth 3 $\frac{1}{2}$ ft. base, 1 $\frac{1}{2}$ ft. high, W. of cor.
 70.93 Fence, bears N.E. and S.W.
 71.25 Road, bears N.E. and S.W.
 72.70 Road, bears N.W. and S.E.
 80.00 Set an iron post 3 ft. long, 2 ins. diam., 24 ins. in the ground for cor. of secs. 26, 27, 34 and 35, marked on brass cap¹⁹¹³;
 T16SR32E. in N. half
 S27 in N.W.
 S26 in N.E.
 S35 in S.E. and
 S34 in S.W. quadrant; dig pits 18x18x12 ins. in each sec. 5 $\frac{1}{2}$ ft. dist., and raise mound of earth 4 ft. base, 2 ft. high, W. of cor.
 Land, level.
 Soil, sandy loam, over 2 ft. deep, 1st rate.
 No timber.
 Undergrowth, dense brush 1.80 chs.
 From this cor.
 M.F. Gilbert's house bears S63°10'E.
 D. Banta's house bears S20°45'E.

West, on random line, bet. secs. 27 and 34
 40.00 Set temp. $\frac{1}{4}$ sec. cor.
 79.98 Intersect N. and S. line, 3 lks. N. of cor. of secs. 27, 28, 33 and 34, hereinbefore described,
 Thence I run
 N89°59'E, on true line, bet. secs. 27 and 34
 Over level land, through scattering brush
 6.33 Road, bears N.E. and S.W.
 39.99 Set an iron post 3 ft. long, 1 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; dig pits 18x18x12 ins. E. and W. of post, 3 ft. dist., and raise mound of earth 3 $\frac{1}{2}$ ft. base 1 $\frac{1}{2}$ ft. high, N. of cor.
 50.00 Leave scattering brush, bears N.W. and S.E.
 62.78 Road, bears N.W. and S.E.
 79.98 The cor. of secs. 26, 27, 34 and 35, hereinbefore described.
 Land, level.
 Soil, sandy loam over 2 ft. deep, 1st rate.
 No timber.
 Undergrowth, scattering mesquite, 50.00 chs.

East, bet^{frac.} secs. 26 and 35, on true line,
 Over level land.
 15.00 Enter dense brush, bears N.W. and S.E.
 20.93 Intersect Arizona and New Mexico Bdy. at a point from which 344 Mile Cor. a granite stone 10x4 ins. x 5 ins. above ground, marked & witnessed as described by the Surv. Gen. bears N0°07'E
 37, 22 chs. dist.
 At point of intersection set an iron post 3 ft. long, 2 ind. diam., 24 ins. in the ground for closing cor. of frac. secs. 26 and 35, marked on brass cap¹⁹¹³;
 CC, E. of center.
 NM in E. half;
 S35, R32E in S.W. and
 T16S, R32E in N.W. quadrant; dig pits 24x18x12 ins. cross-wise on each line, N. and S. 4 ft. and W. 8 ft. dist.,

Subdivision of ^{Frac.} Tn. 16 S. R. 32 E.

Chains. and raise mound of earth 4 ft. base, 2 ft. high, W. of cor.
Land, level.
Soil, sandy loam, over 2 ft. deep, 1st rate.
No timber.
Undergrowth, dense mesquite 6.00 chs.

May 29, 1913.

May 30¹⁹¹³ At 7h.00m. a.m. l.m.t.; I set off 32°00'N. on the lat. arc, 21°45'N. on the decl. arc and determine with the solar a meridian at the cor. of secs. 26, 27, 34 and 35, hereinbefore described, Thence I run NO°02'E., bet. secs. 26 and 27.

Over level land,
28.00 Enter dense brush, bears N.W. and S.E.
40.00 Set an iron post 3 ft. long, 1 in. diam., 26 ins. in the ground for $\frac{1}{4}$ sec. cor., marked on brass cap¹⁹¹³ S27 in W. and S26 in E. half; dig pits 18x18x12 ins. N. and S. of post 3 ft. dist., and raise mound of earth 3 $\frac{1}{2}$ ft. base, 1 $\frac{1}{2}$ ft. high, W. of cor.
80.00 Set an iron post 3 ft. long, 2 ins. diam., 24 ins. in the ground for cor. of secs. 22, 23, 26 and 27, marked on brass cap, 1913;
T16SR32E in N. half;
S22 in N.W.
S23 in N.E.
S26 in S.E. and
S27 in S.W. quadrant; dig pits 18x18x12 ins. in each sec. 5 $\frac{1}{2}$ ft. dist., and raise mound of earth 4 ft. base, 2 ft. high, W. of cor.
Land, level.
Soil, sandy loam, over 2 ft. deep, 1st rate.
No timber.
Undergrowth, dense mesquite 52.00 chs.

40.00 S89°59'W, on random line, bet. secs. 22 and 27
Set temp $\frac{1}{4}$ sec. cor.
79.96 Intersect N. and S. line 3 lks. S. of cor. of secs. 21, 22, 27 and 28, hereinbefore described,
Thence I run
East, on true line, bet. secs. 22 and 27
Over gently rolling land.
10.00 Enter dense brush, bears N.W. and S.E.
39.98 Set an iron post 3 ft. long, 1 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; dig pits 18x18x12 ins. E. and W. of post, 3 ft. dist., and raise mound of earth 3 $\frac{1}{2}$ ft. base, 1 $\frac{1}{2}$ ft. high, N. of cor.
43.31 Road, bears N.E. and S.W.
79.96 The cor. of secs., 22, 23, 26 and 27, hereinbefore described.
Land, gently rolling.
Soil, sandy loam, over 2 ft. deep, 1st rate.
No timber.
Undergrowth, dense greasewood and mesquite 70.00 chs.

21.02 East, bet. ^{frac.} secs. 23 and 26, on true line,
Over gently rolling land.
Intersect Arizona and New Mexico Bdy. at a point from which the 343 Mile Cor. a granite stone 10x8 ins. 5 ins. above ground, marked and witnessed as described by the Surv. Gen. N. 37.22 chs. dist.
At point of intersection set an iron post 3 ft. long, 2 ins. diam., 24 ins. in the ground for closing cor. of frac. secs, 23 and 26, marked on brass cap, 1913;
CC, E. of center
NM in E. half;
T16S; S23 in N.W.
S26, R32E in S.W. quadrant; dig pits 24x18x12 ins. N. and S. of post 3 ft. and W. 7 ft. dist., and raise mound of earth 4 ft. base, 2 ft. high, W. of cor.
Land gently rolling. Soil sandy loam over 2 ft deep 1st rate. No timber. Undergrowth dense mesquite and ...

Frac.
Subdivision of Tr. 16 S. R. 32 E.

Chains. NO°02'E., bet. secs. 22 and 23
 Over level land, through dense brush.
 29.95 Fence, bears N.W. and S.E., leave dense brush and enter cleared land.
 40.00 Set an iron post 3 ft. long, 1 in. diam., 26 ins. in the ground for $\frac{1}{4}$ sec. cor., marked on brass cap¹⁹¹³ S23 in W. and S23 in E. half; dig pits 18x18x12 ins. N. and S. of post 3 ft. dist., and raise mound of earth $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high, W. of cor. Empty house bears S47°48'W. 5.01 chs.
 45.48 Fence, bears N.E. and S.W.
 45.92 Road, bears N.E. and S.W.
 47.20 Wash, 18 lks. wide, course N.E.
 69.00 Enter dense brush, bears N75°W. S75°E.
 80.00 Set an iron post 3 ft. long, 2 ins. diam., 24 ins. in the ground for cor. of secs. 14, 15, 22 and 23, marked on brass cap, 1913;
 T16SR32E in N. half;
 S15 in N.W.
 S14 in N.E.
 S23 in S.E. and
 S22 in S.W. quadrant; dig pits 18x18x12 ins. in each sec. $5\frac{1}{2}$ ft. dist., and raise mound of earth 4 ft. base, 2 ft. high, W. of cor.
 Land, level.
 Soil, sandy loam, over 2 ft. deep, 1st rate.
 No timber.
 Undergrowth, dense mesquite and greasewood 41.00 chs.
 May 30¹⁹¹³ At this cor. I set off 21°45'N. on the decl. arc and observe the sun on the meridian at noon; the resulting latitude is 32°02'N.

West, on random line, bet. secs. 15 and 22.
 40.00 Set temp. $\frac{1}{4}$ sec. cor.
 79.94 Intersect N. and S. line, 3 lks. N. of cor. of secs. 15, 16, 21 and 22, hereinbefore described,
 Thence I run
 N89°59'E., on true line, bet. secs. 15 and 22
 Over gently rolling land, through dense brush.
 39.97 Set an iron post 3 ft. long, 1 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; dig pits 18x18x12 ins. E. and W. of post, 3 ft. dist., and raise mound of earth $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high, N. of cor.
 79.94 The cor. of secs. 14, 15, 22 and 23, hereinbefore described.
 Land, gently rolling.
 Soil, sandy loam, over 2 ft. deep, 1st rate.
 No timber.
 Undergrowth, dense greasewood and mesquite.

East, bet. ^{frac.}secs. 14 and 23, on true line,
 Over gently rolling land, through dense brush.
 21.16 Intersect Arizona and New Mexico Bdy. at a point from which the 342 Milk Cor. a granite stone, 12x4 ins. 5 ins. above ground, marked & witnessed as described by the Surv. Gen. bears N0°0'E. 36.97 chs. dist.
 At point of intersection set an iron post 3 ft. long, 2 ins. diam., 24 ins. in the ground for closing cor. of ^{frac.}secs 14 and 23. marked on brass cap, 1913;
 CC, E. of center
 NM in E. half;
 T16S, S14 in N.W. and
 S23, R32E in S.W. quadrant; dig pits 24x18x12 ins. N. and S. of post, 3 ft. and W, 7 ft. dist., raise mound of earth 4 ft. base, 2 ft. high, W. of cor.
 Land, gently rolling.
 Soil, sandy loam over 2 ft. deep, 1st rate.
 No timber.
 Undergrowth, dense mesquite greasewood and catclaw.

Frac.
Subdivision of Tr. 16 S. R. 32 E.

Chains: NO⁰²'E, bet. secs. 14 and 15.
Over gently rolling land, through dense brush.

40.00 Set an iron post 3 ft. long, 1 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; dig pits 18x18x12 ins. N. and S. of post 3 ft. dist., and raise mound of earth 3 $\frac{1}{2}$ ft. base, 1 $\frac{1}{2}$ ft. high, W. of cor.

54.45 Road, bears N.W. and S.E.

80.00 Set an iron post 3 ft. long, 2 ins. diam., 24 ins. in the ground for cor. of secs., 10, 11, 14 and 15, marked on brass cap, 1913;
T16SR33E in N. half;
S10 in N.W.
S11 in N.E.
S14 in S.E. and
S15 in S.W. quadrant; dig pits 18x18x12 ins. in each sec. 5 $\frac{1}{2}$ ft. dist., and raise mound of earth 4 ft. base, 2 ft. high, W. of cor.
Land, gently rolling.
Soil, sandy loam, over 2 ft. deep, 1st rate.
No timber.
Undergrowth, dense mesquite and greasewood.

May 30, 1913.

May 31¹⁹¹³ At 7h.00m. a.m. l.m.t., I set off 32⁰² $\frac{1}{2}$ 'N. on the lat. arc, 21⁵⁴'N. on the decl. arc and determine with the solar a meridian at the cor. of secs. 10, 11, 14 and 15, above described,

Thence I run

40.00 S89⁵⁹'W., on random line, bet. secs. 10 and 15
Set temp. $\frac{1}{4}$ sec. cor.

79.90 Intersect N. and S. line 5 lks. north of true point for cor. of secs. 9, 10, 15 and 16, hereinbefore described.

Thence I run

N 89⁵⁷'E, on true line, bet. secs. 10 and 15
Over gently rolling land, through dense brush

0.06 Leave wash, 8 lks. wide, course N.E.

39.95 Set an iron post 3 ft. long, 1 in. diam., 26 ins. in the ground for $\frac{1}{4}$ sec. cor., marked on brass cap¹⁹¹³ S10 in N. and S15 in S. half; dig pits 18x18x12 ins. E. and W. of post 3 ft. dist., and raise mound of earth 3 $\frac{1}{2}$ ft. base, 1 $\frac{1}{2}$ ft. high, N. of cor.

52.40 Road, bears S.E. and N.W.

79.90 The cor. of secs. 10, 11, 14 and 15, hereinbefore described.
Land, gently rolling.
Soil, sandy loam, over 2 ft. deep, coarse texture, dry, 1st rate.
No timber.
Undergrowth, dense greasewood and mesquite.

East, bet. ^{frac.}secs. 11 and 14, on true line,
Over gently rolling land, through dense brush

21.37 Intersect Arizona and New Mexico Bdy. at a point from which the 341 Mile cor., which is a granite stone 11 x 7 x 5 ins. above ground, marked and witnessed as described by the Surveyor General, bears N 0⁰²'E 36.65 chs. dist.
At point of intersection set an iron post 3 ft. long, 2 ins. diam., 24 ins. in the ground for closing cor. of frac. secs. 11 and 14, marked on brass cap, 1913;
CC, E. of center.
NM in E. half;
T16S, S11 in N.W. and
S14, R33E in S.W. quadrant; dig pits 24x18x12 ins. cross-wise on each line, N. and S. 3 ft. and W. of post 7 ft. dist., and raise mound of earth 4 ft. base, 2 ft. high, W. of cor.
Land, gently rolling.
Soil, sandy loam over 2 ft. deep, dry, medium texture, 1st rate.

Subdivision of ^{Frac.} Tr. 16 S. R. 32 E.

Chains.

No timber.
Undergrowth, dense greasewood and mesquite.

NO^o02'E., bet. secs. 10 and 11
Over gently rolling land, through dense brush.
28.50 Wash, 12 lks. wide, course N.E.
40.00 Set an iron post 3 ft. long, 1 in. diam., 26 ins. in the
ground for $\frac{1}{4}$ sec. cor., marked on brass cap¹⁹¹³ S10 in W.
and S11 in E. half; dig pits 18x18x12 ins. N. and S. of
post 3 ft. dist., and raise mound of earth 3 $\frac{1}{2}$ ft. base,
1 $\frac{1}{2}$ ft. high, W. of cor.
50.10 Wash, 18 lks. wide, course N.E.
80.00 Set an iron post 3 ft. long, 2 ins. diam., 26 ins. in the
ground for cor. of secs. 2,3,10 and 11, marked on brass
cap,1913;
T16SR32E in N. half;
S3 in N.W.
S2 in N.E.
S11 in S.E. and
S10 in S.W. quadrant; dig pits 18x18x12 ins. in each sec.
5 $\frac{1}{2}$ ft. dist., and raise mound of earth 4 ft. base, 2 ft.
high, W. of cor.
Land, gently rolling.
Soil, sandy loam over 2 ft. deep, dry, medium texture,
1st rate.
No timber.
Undergrowth, dense greasewood and mesquite.
May 31¹⁹¹³ At this cor. I set off 21^o55'N. on the decl. arc
and observe the sun on the meridian at noon; the result-
ing latitude is 32^o03'N.

S 89^o57'W on random line, bet. secs. 3 and 10
40.00 Set temp. $\frac{1}{4}$ sec. cor.
79.83 Intersect N. and S. line 3 lks. south of cor. of secs. 3,4,
9 and 10, hereinbefore described,
Thence I run
N89^o58'E., on true line, bet. secs. 3 and 10
Over gently rolling land, through dense brush.
25.73 Wash, 20 lks. wide, course N.E.
39.915 Set an iron post 3 ft. long, 1 in. diam., 26 ins. in the
ground for $\frac{1}{4}$ sec. cor., marked on brass cap¹⁹¹³ S3 in N.
and S10 in S. half; dig pits 18x18x12 ins. E. and W. of
post 3 ft. dist., and raise mound of earth 3 $\frac{1}{2}$ ft. base,
1 $\frac{1}{2}$ ft. high, W. of cor.
67.83 Wash, 8 lks. wide, course N.E.
79.83 The cor. of secs. 2,3,10 and 11, hereinbefore described.
Land, gently rolling.
Soil, sandy loam over 2 ft. deep, dry, medium texture,
1st rate.
No timber.
Undergrowth, dense mesquite, greasewood and catclaw.

East, bet. ^{frac.} secs. 2 and 11, on true line,
Over gently rolling land, through dense brush.
21.52 Intersect Arizona and New Mexico Bdy. at a point from
which the 340 Mile cor., which is a granite stone 12 x
5 x 5 ins. above ground, marked and witnessed as describ-
ed by the Surveyor General, bears NO^o10'E. 36.55 chs.
dist.
At point of intersection set an iron post 3 ft. long, 2 ins. diam.,
24 ins. in the ground for closing cor. of frac.
secs. 2 and 11, marked on brass cap,1913;
CC, E. of center.
NM in E. half;
T16S, S2 in N.W. and
S11, R32E in S.W. quadrant; dig pits 24x18x12 ins. cross-
wise on each line N. and S. 3 ft. and W. of post 7 ft.
dist., and raise mound of earth 4 ft. base, 2 ft. high,
W. of cor.

Chains. Land, gently rolling.
Soil, sandy loam over 2 ft. deep, dry, medium texture,
1st. rate.
No timber.
Undergrowth, dense mesquite, greasewood and catclaw.

NO^o02'E, bet. secs. 2 and 3, on true line,
Over gently rolling land, through dense brush.

40.00 Set an iron post 3 ft. long, 1 in. diam., 26 ind. in the
ground for $\frac{1}{4}$ sec. cor., marked on brass cap ¹⁹¹³ S3 in W.
and S2 in E. half; dig pits 18x18x12 ins. N. and S. of
post, 3 ft. dist., and raise mound of earth $3\frac{1}{2}$ ft. base,
 $1\frac{1}{2}$ ft. high, W. of cor.

70.40 Leave brush. N.W. and S.E., thence over level grassy
land.

81.80 Fence, bears N.W. and S.E.

100.31 Intersect 3rd Standard Parallel South at a point from which
the Standard cor. of secs. 34 and 35 bears N86°27'W.
5.92 chs. dist. re-estab. by me May 24, 1913 as hereinafter described.
At point of intersection set an iron post 3 ft. long, 2
ins. diam., 24 ins. in the ground for closing cor. of
secs. 2 and 3, marked on brass cap, 1913;
CC, S. of center.
T15SR32E, S34, S35 in N. half;
S2 in S.E. and
S3 in S.W. quadrant; dig pits 24x18x12 ins. crosswise
on each line, E. and W. 3 ft. and S. of post 7 ft. dist.
and raise mound of earth 4 ft. base, 2 ft. high, S. of
of cor.
Land, gently rolling, 70.00 chs., level 30.00 chs.
Soil, sandy loam over 2 ft. deep, dry, medium texture,
1st rate.
No timber.
Undergrowth, dense mesquite and greasewood 70.00 chs.

May 31, 1913.

General Description.

The land in this township is level. The drainage is to
the NE. The soil is a rich sandy loam deep and very pro-
ductive. Mesquite brush, greasewood and catclaw cover the
entire township with a very dense growth.
There is no water in this township with the exception of
the NE corner of sec. 2, which falls in a swamp. There
is an abundant growth of nutritious grass in this portion
of the township. The remainder of the township is arid,
but could be cultivate easily by modern dry farming
methods.
There is 2 settlers in section 34, and one in section 35.

John P. Hesse
U.S. Surveyor.

Note:

The courses reported along the Arizona-New Mexico
line were determined by sighting from one corner to
another and in order to set the closing corners on line.

John P. Hesse
U.S. SURVEYOR

Resurvey of East Edy. of Tr. 16 S. R. 31 E.

Chains. May 23¹⁹¹³ At 9h.00m. a.m. l.m.t., I set off 31°59'N. on the lat. arc, 20°22'N. on the decl. arc and determine with the solar a meridian at the cor. of Trs. 16 and 17 S. Rgs. 31 and 32 E., which is a granite stone 12x6x6 ins. ^{above ground} poorly set; ^{re-estab.} marked and witnessed as described by the Surveyor General; I destroy all trace of this old cor. and reestablish it in same place as follows;
 Set an iron post 3 ft. long, 3 ins. diam., 24 ins. in the ground for cor. of Trs. 16 and 17 S. Rgs. 31 and 32 E., marked on brass cap, 1913;
 T16S in N.
 R32E in E.
 T17S in S. and
 R31E in W. half;
 S36 in N.W.
 S31 in N.E.
 S6 in S.E. and
 S1 in S.W. quadrant;
 Raise a mound of stone 2 ft. base, 1½ ft. high, S. of cor.
 Pits impracticable.

Thence I run North, bet. secs. 31 and 36, on random line, on S. ½ mile
 40.41 Fall 42 lks. E. of old ¼ sec. cor., which is a ^{granite stone} 12x7x4 ins. ^{above ground} poorly set with no trace of pits or mound. I return to ^{re-estab.} cor. of Trs. 16 and 17 S. Rgs. 31 and 32 E. hereinbefore described, Thence I run

40.41 NO°36'W., bet. secs. 31 and 36, on true line, on S. ½ mile. Over rolling land, through dense brush. The old ¼ sec. cor. hereinbefore described, I destroy all trace of old ¼ sec. cor., and reestablish it in same place as follows;
 Set an iron post 3 ft. long, 1 in. diam., 26 ins. in the ground for ¼ sec. cor., marked on brass cap ¹⁹¹³ S36 in W. and S31 in E. half; dig pits 18x18x12 ins. N. and S. of post 3 ft. dist., and raise a mound of earth 3½ ft. base, 1½ ft. high, W. of cor.

Thence from ^{above} ¼ sec. cor. I run North, bet. secs. 31 and 36, on random line, on N. ½ mile.
 40.00 After diligent search I find no trace of old cor. of secs. 25, 30, 31 and 36. Thence continue random line & measurement N. to
 81.04 Fall 9 lks. W. of old ¼ sec. cor. ^{bet. secs. 25 & 30} which is a granite stone 14x8x5 ins. ^{above ground} marked and witnessed as described by the Surveyor General; ^{the re-established} poorly set with no trace of pits or mound. I return to ¼ sec. cor. bet. secs. 31 and 36, hereinbefore described.

Thence I run NO°04'E, bet. secs. 31 and 36, on true line, on N. ½ mile
 40.52 Over rolling land, through dense brush. Set an iron post 3 ft. long, 3 ins. diam. ^{24 ins. in the ground for re-established cor. of} secs. 25 and 36 ^{T. 16 S. R. 31 E.} marked on brass cap, 1913;
 T16S in N., and
 S30, S31, R32E in E. half;
 S25 in N.W. and
 S36, R31E in S.W. quadrant;
 Raise a mound of stone 2 ft. base, 1½ ft. high, W. of cor.
 Pits impracticable.
 Land, rolling.
 Soil, rocky 4th rate.
 No timber.
 Undergrowth, dense greasewood and catclaw.

From ^{re-established} cor. of secs. 25 and 36 ^{T. 16 S. R. 31 E.} ^{above described}, I run NO°04'E, along E. obdy. of sec. 25, on true line on S. ½ mile.
 0.87 Over rolling land, through dense brush
 17.90 Wash, 18 lks. wide, course N.E.
 40.52 Drain, 20 lks. wide, course N.E., soil; changes from rocky to coarse sand and gravel.
 The old ¼ sec. cor. bet. secs. 25 & 30, hereinbefore described
 I destroy all trace of this old cor. and reestablish it in the same place as follows;
 Set an iron post 3 ft. long, 1 in. diam., 26 ins. in the ground for ¼ sec. cor., marked on brass cap ¹⁹¹³ S25 in W. and S30 in E. half; dig pits 18x18x12 ins. N. and S. of

Resurvey of East Bdy. of Twp. 16 S. R. 31 E.

- Chains. post, 3 ft. dist., and raise a mound of earth $3\frac{1}{2}$ ft. base
 $\frac{1}{2}$ ft. high, W. of cor.
 Thence from ^{above described} $\frac{1}{4}$ sec. cor., I run, North, on random line on
 Road, bears N.E. & S.W. bdy. of sec. 5, bdy. of Sec. 25 on N. $\frac{1}{2}$ mile
- 4.92
 40.40 Fall 12 lks. E. of old cor. of secs. 19, 24, 25 and 30,
 which is the remains of an old post badly rotted, and
 marks illegible, slight trace of pits and mound.
 I return to ^{the re-estab.} $\frac{1}{4}$ sec. cor. of secs. 25 and 30, hereinbefore described
 Thence I run
 N0°10'W., along E. bdy. of sec. 25., on true line, on N. $\frac{1}{2}$ mile.
 Over rolling land, through dense brush.
- 40.40 The old cor. of secs. 19, 24, 25 and 30, hereinbefore described.
 I destroy all trace of this old cor. and reestablish it
 in the same place as follows;
 Set an iron post 3 ft. long, 3 ins. diam., 24 ins. in the
 ground for cor. of secs. 24 and 25, marked on brass cap, 193;
 T16S in N. and T.16S-R31E.
 S19, S30, R32E in E. half;
 S24 in N.W. and
 S25, R31E in S.W. quadrant;
 Dig pits 24x24x12 ins. N.W. and S.W. of post 6 ft. dist.,
 and raise a mound of earth 4 ft. base, 2 ft. high, W. of
 cor.
 Land, rolling.
 Soil, coarse gravel and sand over 2 ft. deep, dry, coarse
 texture, 2nd rate.
 No timber.
 Undergrowth, dense greasewood, catclaw and mesquite.
-
- North, from ^{re-estab.} cor. of secs. 24 and 25, ^{T.16S-R31E. above described} along E. bdy. of sec.
 24, on random line, on S. $\frac{1}{2}$ mile
- 40.57 Fall 11 lks. E. of old $\frac{1}{4}$ sec. cor., which is a granite
 stone 10x5x3 ins. ^{above ground} marked $\frac{1}{4}$ on W. face, loosely set in
 ground with no trace of mound or pits.
 I return to ^{the re-estab.} cor. of secs. 24 and 25, hereinbefore described.
 Thence I run
 N0°09'W., along E. bdy. of sec. 24, on true line on S. $\frac{1}{2}$ mile
- 40.57 Over rolling land, through dense brush.
 The old $\frac{1}{4}$ sec. cor., hereinbefore described
 I destroy all trace of this old cor., and reestablish it
 in the same place as follows;
 Set an iron post 3 ft. long, 1 in. diam., 26 ins. in the
 ground for $\frac{1}{4}$ sec. cor., marked on brass cap, ¹⁹³¹ S24 in W.
 and S19 in E. half; dig pits 18x18x12 ins. N. and S. of
 post, 3 ft. dist., and raise a mound of earth $3\frac{1}{2}$ ft. base
 $\frac{1}{2}$ ft. high, W. of cor.
 Thence from ^{above described} $\frac{1}{4}$ sec. cor., I run
- 40.46 North, along E. bdy. sec. 24, on random line, on N. $\frac{1}{2}$ mile
 Fall 8 lks. E. of old cor. of secs. 13, 18, 19 and 24,
 which a granite stone 13x5x5 ins. ^{above ground} poorly set in the
 ground, marked as described by the Surveyor General, with
 no trace of pits or mound.
 I return to ^{the re-estab.} $\frac{1}{4}$ sec. cor., of secs. 19 and 24, hereinbefore described
 Thence I run.
 N0°07'W., along E. bdy. of sec. 24, on true line, on N. $\frac{1}{2}$ mile,
 Over rolling land, through dense brush.
- 26.60
 40.46 Road, bears N.E. and S.W.
 The old cor. of secs. 13, 18, 19 and 24, hereinbefore described.
 I destroy all trace of this old cor., and reestablish in
 the same place as follows;
 Set an iron post 3 ft. long, 3 ins. diam., 24 ins. in the
 ground for cor. of secs. 13 and 24, marked on brass cap, 193;
 T16S in N. and T.16S-R31E.
 S18, S19, R32E in E. half;
 S13 in N.W. and
 S24, R31E in S.W. quadrant;
 Dig pits 24x24x12 ins. N.W. and S.W. of cor. 6 ft. dist.,
 and raise a mound of earth 4 ft. base, 2 ft. high, W. of
 cor.
 Land, rolling.
 Soil, coarse gravel and sand over 2 ft. deep, dry, coarse
 texture, 2nd rate.
 No timber.

Resurvey of East Eddy of Tr. 16 S. R. 31 E.

Chains. Undergrowth, dense greasewood. May 22¹⁹¹³ At this cor. I set off 20°23'N. on the decl. arc and observe the sun on the meridian at noon; the resulting latitude is 32°02'N. E.

40.59 From ^{the re-estab.} cor. of secs. 13 and 24, above described, I run North, along E. bdy. of sec. 13, on random line, on S. 1/2 mile Fall 19 lks. E. of old 1/4 sec. cor., which is a granite stone 8x6x3 ins. ^{above ground} marked with 1/4 on W. face, poorly set with no trace of pits or mound. T.16S.-R.31E. I return to ^{the re-estab.} cor. of secs. 13 and 24, hereinbefore described.

40.59 Thence I run NO°16'W., along E. bdy. of sec. 13, on true line, on S. 1/2 mile Over rolling land, through dense brush. The old 1/4 sec. cor. ^{here before described} I destroy all trace of this old cor., and reestablish it in the same place as follows; Set an iron post 3 ft. long, 1 in. diam., 26 ins. in the ground for 1/4 sec. cor., marked on brass cap ¹⁹¹³ S13 in W. and S18 in E. half; dig pits 18x18x12 ins. N. and S. of post, 3 ft. dist., and raise a mound of earth 3 1/2 ft. base, 1 1/2 ft. high, W. of cor.

40.00 Thence from ^{above described} 1/4 sec. cor., I run North, along E. bdy. of Sec. 13, on random line, on N. 1/2 mile After diligent search find no trace of old cor. of secs. 7, 12, 13 and 18, therefore continue measurement on random line N. on E. bdy. Sec. 12, S. 1/2 mile

80.64 Fall 21 lks. E. of old 1/4 sec. cor., bet. secs. 7 and 12, which is granite stone 12x4x4 ins. ^{above ground} marked with 1/4 on W. face; poorly set in ground with no trace of pits or mound. I return to ^{the re-estab.} 1/4 sec. cor. bet. secs. 13 and 18, hereinbefore described.

40.32 Thence I run NO°09'W., along E. bdy. of sec. 13, on true line, on N. 1/2 mile Over rolling land, through dense brush. Set an iron post 3 ft. long, 3 in. diam., 24 ins. in the ground for cor. of secs. 12 and 13, marked on brass cap ¹⁹¹³ T16S in N. and S7, S18, R32E in E. half; S12 in N.W. and S13, R31E in S.W. quadrant; Dig pits 24x24x12 ins. N.W. and S.W. of post 6 ft. dist., and raise a mound of earth 4 ft. base, 2 ft. high, W. of cor. Land, rolling. Soil, coarse gravel and sand over 2 ft. deep, dry, coarse texture, 2nd rate. No timber. Undergrowth, dense greasewood.

40.32 From ^{above described} cor. of secs. 12 and 13, T.16S.-R.31E., I run NO°09'W., along E. bdy. of secs. 12, on true line, on S. 1/2 mile Over rolling land, through dense brush. The old 1/4 sec. cor. ^{bet. secs. 7 & 12 hereinbefore described} I destroy all trace of this old cor., and reestablish it in the same place as follows; Set an iron post 3 ft. long, 1 in. diam., 26 ins. in the ground for 1/4 sec. cor., marked on Brass cap ¹⁹¹³ S12 in W. and S7 in E. half; dig pits 18x18x12 ins. N. and S. of post 3 ft. dist., and raise a mound of earth 3 1/2 ft. base, 1 1/2 ft. high, W. of cor.

40.69 Thence from ^{above described} 1/4 sec. cor. North, along E. bdy. of sec. 12, on random line, on N. 1/2 mile, Fall 53 lks. E. of old cor. of secs. 1, 6, 7 and 12, which is a granite stone 8x7x5 ins. ^{above ground} poorly set and marked as described by the Surveyor General. No trace of pits or mound. I return to ^{the re-estab.} 1/4 sec. cor., bet. secs. 7 and 12, hereinbefore described.

40.69 Thence I run NO°46'W., along E. bdy. of sec. 12, on true line, on N. 1/2 mile, Over rolling land, through dense brush. The old cor. of secs. 1, 6, 7 and 12, hereinbefore described. I destroy all trace of old cor. and reestablish it in the same place as follows;

Resurvey of East Edy. of Tp. 16 S. R. 31 E.

Chains. Set an iron post 3 ft. long, 3 ind. diam., 24 ins. in the ground for cor. of secs. 1 and 12, marked on brass cap T16S in N. and S6, S7, R32E in E. half; S1 in N.W. and S12, R31E in S.W. quadrant; Dig pits 24x24x12 ins. N.W. and S.W. of post, 6 ft. dist. and raise a mound of earth 4 ft. base, 2 ft. high, W. of cor. Land, rolling. Soil, coarse gravel and sand over 2 ft. deep, dry, coarse texture, 1st rate. No timber. Undergrowth, dense greasewood and mesquite.

40.66 From ^{re-estab.} cor. of secs. 1 and 12, above described, I run North, along E. bdy. of sec. 1, T.16S-R31E., on random line, on S. 1/2 mile Fall 1 1/2 lks. W. of old 1/4 sec. cor., which is a granite stone 12x9x5 ins. marked on W. face, poorly set with no trace of pits or mound. I return to the ^{re-estab.} cor. of secs. 1 and 12, hereinbefore described.

40.66 Thence I run N0°09'E., along E. bdy. of sec. 1, on true line, on S. 1/2 mile Over rolling land, through dense brush. The old 1/4 sec. cor. bet. secs. 1 and 6, hereinbefore described. I destroy all trace of this old cor. and reestablish it in same place as follows; Set an iron post 3 ft. long, 1 in. diam., 26 ins. in the ground for 1/4 sec. cor., marked on brass cap ¹⁹¹³ S1 in W. and S6 in E. half; dig pits 18x18x12 ins. N. and S. of post 3 ft. dist., and raise a mound of earth 3 1/2 ft. base, 1 1/2 ft. high, W. of cor.

55.85 Thence from 1/4 sec. cor. above described, I run North, along E. bdy. of sec. 1, on random line, on N. 1/2 mile Intersect 3rd Standard Parallel South 1 1/2 lks. West of old Tp. closing cor. ^{Tps. 16 S. Rs. 31 and 32 E.} which is a granite stone 12x9x7 ins. ^{above ground and witnessed} marked as described by the Surveyor General, poorly set with no trace of pits or mound. I return to ^{re-estab.} 1/4 sec. cor. bet. secs. 1 and 6, hereinbefore described.

55.85 Thence I run N0°01'E., along E. bdy. of sec. 1, on true line, on N. 1/2 mile, Over rolling land, through dense brush. Intersect 3rd Standard Parallel South at the old Tp. closing cor. ^{Tps. 16 S. Rs. 31 and 32 E., hereinbefore described} I destroy all trace of this old cor. and reestablish it in the same place as follows; ^{closing} Set an iron post 3 ft. long, 3 ins. diam., 24 ins. in the ground for closing cor. of Tps. 16 S. Rgs 31 and 32 E., marked on brass cap, 1913; CC, S of center. T15S, R31E, S36, R32E, S31 in N. and T16S, in S. half; S6, R32E in S.E. and S1, R31E in S.W. quadrant; Dig pits 24x30x12 ins. crosswise on each line E. and W. 4 ft. and S. of post 8 ft. dist., and raise a mound of earth 5 ft. base, 2 1/2 ft. high, S. of cor. Land, rolling. Soil, coarse gravel and sand over 2 ft. deep, coarse texture, dry, 2nd. rate. No timber. Undergrowth, dense greasewood and mesquite.

May 22, 1913.

Resurvey of the Third Standard Parallel South
Through Range 32 E.

- Chains. May 24¹⁹¹³ I commence at the ^{old} standard cor. of Tps. 15 S. Rgs. 31 and 32 E. ^{on 3rd Standard Parallel South} which is a marked stone deposited 8 ins. in the ground, with stake, badly decayed in E. pit. I destroy all trace of this old cor. and re-establish it in the same place as follows:
Set an iron post 3 ft. long, 3 ins. diam., 24 ins. in the ground for Standard cor. of Tps. 15 S. Rgs. 31 and 32 E. marked on brass cap, 1913;
T15S in N. half;
R31ES36 in N. W. and
R32ES31 in N. E. quadrant; dig pits 30 x 24 x 12 ins. crosswise on each line, E. and W. 4 ft. and N. of post 8 ft. dist., and raise a mound of earth 5 ft. base 2 ft. high N. of cor.
Thence I run
East, along S. bdy. of sec. 31, on random line, on W. $\frac{1}{2}$ mile,
40.19 Fall 24 lks. S. of ^{old} standard $\frac{1}{4}$ sec. cor. which is a granite stone 12 x 6 ins. x 6 ins. ^{above ground} and marked ^{and witnessed} as described by the surveyor general, poorly set with no trace of pits or mound of earth.
I return to the ^{re-established} standard cor. of Tps. 15 S. Rgs. 31 and 32 E. ^{hereinbefore described},
Thence I run
N. 89° 39' E., on S. bdy. of sec. 31, on true line, on W. $\frac{1}{2}$ mile
7.61 Over rolling land through dense brush
Closing cor. to Tps. 15 S., Rgs. 31 and 32 E. ^{hereinbefore described}.
Difference between measurements of 40.19 chs. by two sets of chainmen is 4 lks.; position of middle point
By 1st. set 40.21 chs.
By 2nd. set 40.17 chs.; the mean of which is
40.19 I reset old stone which is a granite 12 x 6 ins. x 6 ins. ^{above ground}.
12 ins. in the ground for ^{re-established} standard $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on N. face; dig pits 18 x 18 x 12 ins. E. and W. of stone 3 ft. dist., and raise a mound of earth $3\frac{1}{2}$ ft. base $1\frac{1}{2}$ ft. high N. of cor.
Thence from ^{re-established} standard $\frac{1}{4}$ sec. cor. above described, I run,
40.45 East, on S. bdy. of sec. 31, on random line, on E. $\frac{1}{2}$ mile,
Fall 18 lks. S. of old standard cor. of secs. 31 and 32 which is a stake, badly decayed with marks illegible, and trace of pits and mound of earth.
I return to the ^{re-established} standard $\frac{1}{4}$ sec. cor. on S. bdy. of sec. 31, ^{hereinbefore described}
Thence I run
N. 89° 44' E., on south bdy. of sec. 31, on true line, on E. $\frac{1}{2}$ mile,
Over rolling land through dense brush.
Difference between measurements of 40.45 chs. by two sets of chainmen is 2 lks.; position of middle point
By 1st. set 40.46 chs.
By 2nd. set 40.44 chs.; the mean of which is
40.45 The old standard cor. of secs. 31 and 32 ^{hereinbefore described} I destroy all traces of the old cor. and re-establish it in the same place as follows:
Set an iron post 3 ft. long, 3 ins. diam., 24 ins. in the ground for standard cor. of secs. 31 and 32, marked on brass cap, 1913;
T15SR32E in N. half;
S31 in N. W. and
S32 in N. E. quadrant; dig pits 24 x 18 x 12 ins. crosswise on each line, E. and W. 3 ft. and N. of post 7 ft. dist., and raise a mound of earth 4 ft. base 2 ft. high N. of cor.
Land, rolling.
Soil, coarse gravel and sand, dry, coarse texture,; 2nd. rate.
No timber.
Undergrowth, greasewood.
Note: Clouds obscured the sun at noon and prevented an observation for latitude.
- 40.32 East, on S. bdy. of sec. 32, on random line, on W. $\frac{1}{2}$ mile,
From ^{re-established} standard cor. of secs. 31 and 32, above described
Fall 18 lks. S. of old standard $\frac{1}{4}$ sec. cor. which is a

Resurvey of the Third Standard Parallel South
Through Range 32 East.
frac.

Chains	<p>stake, badly decayed, with traces of pits and a mound of earth</p> <p>I return to the ^{re-estab.} standard cor. of secs. 31 and 32¹ _{hereinbefore described}</p> <p>Thence I run</p> <p>N. 89° 44' E., on S. bdy. of sec. 32, on true line, on W. ½ mile.</p> <p>Over rolling land through dense brush</p> <p>Difference between measurements of 40.32 chs. by two sets of chainmen is 2 lks.; position of middle point</p> <p>By 1st. set 40.33 chs.</p> <p>By 2nd. set 40.31 chs.; the mean of which is</p>
40.32	<p>The old standard ¼ sec. cor. ^{hereinbefore described} which I destroy and re-establish in the same place as follows:</p> <p>Set an iron post 3 ft. long, 1 in. diam., 26 ins. in the ground for standard ¼ sec. cor., marked on brass cap, 1913;</p> <p>¼ S32 in N. half; dig pits 18 x 18 x 12 ins. E. and W. of post 3 ft. dist., and raise a mound of earth 3½ ft. base 1½ ft. high N. of cor.</p> <p>Thence from ^{re-estab.} standard ¼ sec. cor., above described, I run,</p> <p>East, on S. bdy. of sec. 32, on random line, on E. ½ mile</p> <p>Over rolling land through dense brush.</p> <p>Difference between measurements of 40.30 chs. by two sets of chainmen is 4 lks.; position of middle point</p> <p>By 1st. set 40.32 chs.</p> <p>By 2nd. set 40.28 chs.; the mean of which is</p>
40.30	<p>The old standard cor. of secs. 32 and 33, which is a stake badly rotted and trace of pits and mound of earth. I destroy this old cor. and reestablish it in the same place as follows;</p> <p>Set an iron post 3 ft. long, 3 ins. diam., 24 ins. in the ground for standard cor. of secs. 32 and 33, marked on brass cap, 1913;</p> <p>T15SR32E in N. half;</p> <p>S32 in N. W. and</p> <p>S33 in N. E. quadrant; Dig pits 24 x 18 x 12 ins. cross wise on each line, E. and W. 3 ft. and N. of post 7 ft. dist., and raise a mound of earth 4 ft. base 2 ft. high N. of cor.</p> <p>Land, rolling.</p> <p>Soil, sandy loam mixed with gravel, over 2 ft. deep, dry, medium texture; 1st. rate.</p> <p>No timber.</p> <p>Undergrowth, greasewood and mesquite.</p>
	<p>From above described Std. cor. of secs. 32 and 33, I run,</p> <p>East, on S. bdy. of sec. 33, on random line, on W. ½ mile.</p> <p>Over gently rolling land through dense brush.</p> <p>Difference between measurements of 40.30 chs. by two sets of chainmen is 4 lks.; position of middle point</p> <p>By 1st. set 40.32 chs.</p> <p>By 2nd. set 40.28 chs.; the mean of which is</p>
40.30	<p>Fall 1 lks. S. of the old standard ¼ sec. cor., which is a stake badly decayed, with marks nearly obliterated, and slight trace of pits and mound of earth. I destroy this old cor. and reestablish it in the same place as follows;</p> <p>Set an iron post 3 ft. long, 1 in. diam., 26 ins. in the ground for standard ¼ sec. cor., marked on brass cap, 1913;</p> <p>¼ S33 in N. half; dig pits 18 x 18 x 12 ins. E. and W. of post 3 ft. dist., and raise a mound of earth 3½ ft. base 1½ ft. high, N. of cor.</p> <p>The ^{true} course ^{and dist.} of this half mile is N. 89° 59' E. 40.30 chs.</p> <p>Thence from ^{above described} standard ¼ sec. cor., I run,</p>
40.87	<p>East, on S. bdy. of sec. 33, on random line, on E. ½ mile</p> <p>Fall 1 743 lks. S. of old standard cor. of secs. 33 and 34 which is a stake badly rotted with marks nearly obliterated, and traces of pits and a mound of earth.</p> <p>I return to the ^{re-estab.} standard ¼ sec. cor., _{hereinbefore described}</p> <p>Thence I run,</p> <p>N. 89° 23' E., along S. bdy. of sec. 33, on true line, on E. ½ mile</p> <p>Over gently rolling land, through dense brush.</p>
2.60	Cross wash 12 lks. wide course N. E.
29.00	Cross wash 8 lks. wide course N. E.

Resurvey of the Third Standard Parallel South
Through Range 32 E.

frac.

Chains.	<p>Difference between measurements of 40.87 chs. by two sets of chainmen is 6 lks.; position of middle point By 1st. set 40.90 chs. By 2nd. set 40.84 chs.; the mean of which is</p> <p>40.87 The old standard cor. of secs. 33 and 34, ^{hereinbefore described} which I destroy all traces of the old cor. and reestablish it in the same place as follows; Set an iron post 3 ft. long, 3 ins. diam., 24 ins. in the ground for standard cor. of secs. 33 and 34, marked on brass cap, 1913; T15SR32E in N. half; S33 in N. W. and S34 in N. E. quadrant; dig pits 24 x 18 x 12 ins. cross wise on each line, E. and W. 3 ft. and N. of post 7 ft. dist., and raise a mound of earth 4 ft. base 2 ft. high N. of cor. Land, gently rolling. Soil, sandy loam over 2 ft. deep, dry, medium texture; 1st. rate. No timber. Undergrowth, greasewood, catclaw and mesquite.</p>
40.59	<p>From above described Std. cor. of secs. 33 and 34, I run, East, on S. bdy. of sec. 34, on random line, on W. $\frac{1}{2}$ mile, Fall 28 lks. S. of old standard $\frac{1}{4}$ sec. cor., which is a stake badly decayed, with marks nearly obliterated and slight trace of pits and mound of earth. I return to the ^{re-estab.} standard cor. of secs. 33 and 34, ^{hereinbefore described} Thence I run N. 89° 36' E., on S. bdy. of sec. 34, on true line, on W. $\frac{1}{2}$ mile, Over gently rolling land through dense brush. Difference between measurements of 40.59 chs. by two sets of chainmen is 2 lks.; position of middle point By 1st. set 40.60 chs. By 2nd. set 40.58 chs.; the mean of which is</p>
40.59	<p>The old standard $\frac{1}{4}$ sec. cor. ^{hereinbefore described} which I destroy and re-establish in the same place as follows; Set an iron post 3 ft. long, 1 in. diam., 26 ins. in the ground for standard $\frac{1}{4}$ sec. cor., marked on brass cap, ¹⁹¹³ S 34 in N. half; dig pits 18 x 18 x 12 ins. E. and W. of post 3 ft. dist., and raise a mound of earth $\frac{1}{2}$ ft. base $\frac{1}{2}$ ft. high. N. of cor. Thence from ^{re-estab.} standard $\frac{1}{4}$ sec. cor., above described, I run, East, on S. bdy. of sec. 34, on random line, on E. $\frac{1}{2}$ mile,</p>
40.16	<p>Fall 178 lks. N. of old standard cor. of secs. 34 and 35 which is a stake nearly rotted away with marks almost obliterated. No trace of pits or mound of earth. I return to the ^{re-estab.} standard $\frac{1}{4}$ sec. cor., hereinbefore described, Thence I run S. 87° 28' E., on S. bdy. of sec. 34, on true line, on E. $\frac{1}{2}$ mile Over gently rolling land through dense brush.</p>
19.30	<p>Cross wash 50 lks. wide course N. E.</p>
22.70	<p>Cross road bears N. E. and S. W. Difference between measurements of 40.20 chs. by two sets of chainmen is 4 lks., position of middle point By 1st. set 40.22 chs. By 2nd. set 40.18 chs.; the mean of which is</p>
40.20	<p>The old standard cor. of secs. 34 and 35, ^{hereinbefore described} which I destroy and reestablish in the same place as follows; Set an iron post 3 ft. long, 3 ins. diam., 24 ins. in the ground for standard cor. of secs. 34 and 35, marked on brass cap, 1913; T15SR32E in N. half; S34 in N. W. and S35 in N. E. quadrant; dig pits 24 x 18 x 12 ins. cross wise on each line, E. and W. 3 ft. and N. of post 7 ft. dist.; and raise a mound of earth 4 ft. base 2 ft. high, N. of cor. Land, gently rolling. Soil, sandy loam over 2 ft. deep, dry, medium texture; 1st. rate for first 76.00 chs. Adobe mixed with alkali; fine</p>

Resurvey of the Third Standard Parallel South
Through Range 32 East
frac.

Chains.

texture, 2nd. rate; for last 4.79 chs.
No timber.
Undergrowth, greasewood and mesquite..

May 24, 1913.

May 31; 1913; From above described Std. cor. of secs. 34 & 35, I run,
East, on S. bdy. of ^{frac.}Sec. 35, on random line,
27.46 Fall 170 lks. N. of old closing cor. on Arizona-New
Mexico Boundary, which is a post 3 ft. long, 4 ins. sq.
badly rotted with marks nearly obliterated. No trace of
pits or mound of earth.
I return to the ^{re-estab.}standard cor. of secs. 34 and 35, hereinbefore
described
Thence I run
S. 86° 27' E., on S. bdy. of ^{frac.}sec. 35, on true line,
Over level bottom land.
0.19 Cross fence bears N. E. and S. W.
10.00 Land becomes swampy.
Difference between measurements of 27.51 chs. by two sets
of chainmen is 2 lks.; position of middle point
By 1st. set 27.52 chs.
By 2nd. set 27.50 chs.; the mean of which is
27.51 Intersect Arizona-New Mexico Boundary at the old closing
cor. of secs. 2 and 35, from which the 339 M cor. of
Boundary line ^{which is a granite stone 20 1/2 x 2 1/2 ins. in a mound of stone marked & witnessed as described by the Surv. Gen.} bears N. 0° 04' E. 17.46 chs. dist.
I destroy the old cor. and reestablish it in the same place
as follows;
Set an iron post 3 ft. long, 3 ins. diam., 24 ins. in
the ground for standard closing cor. of ^{frac.}Tps. 15 & 16 S. Rgs.
32 E. marked on brass cap, 1913;
CC E. of center
R32E in W. and
N M in E. half;
T15SS35 in N. W. and
T16SS2 in S. W. quadrant; dig pits 30 x 24 x 12 ins.
crosswise on each line N. and S. 4 ft. and W. of post
8 ft. dist., and raise a mound of earth 5 ft. base 2 ft.
high W. of cor.
Land level.
Soil, loam mixed with adobe, wet, fine texture, 2nd. rate.
No timber.

May 31, 1913.

John P. Hesse
U. S. Surveyor

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BOOK 2665

FINAL OATH OF UNITED STATES SURVEYOR.

Same applies to Book "P"

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 5th 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 ^{Fractional} Tps. 16 and 17 S., Rgs. 32 E., and resurveyed the Third Standard Parallel South through ^{fractional} Range 32 E., and resurveyed the East Boundary of Tp. 16 S. Rg. 31 E.

of the Gila and Salt River Base and Meridian, in the State of Arizona, which are represented in the foregoing field notes ^{and those in Book "P"} as having been executed by me, and under my direction; and I do further solemnly swear that all the corners of said survey ^{and resurvey} have been established ^{or re-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 ^{and notes in Book "P"} are the original field notes of such survey ^{and resurvey}.

John F. Hesse
U. S. Surveyor.

Subscribed by said John F. Hesse, and sworn to before me }
this 12th 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 Fractional Township N° 16 South, Range N° 32 East, and the Resurvey of the 3rd Standard Parallel South, thru, ^{fractional} Range N° 32 East, and the East boundary of Township N° 16 South, Range N° 31 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 5th, 1912, having been critically examined, and the necessary corrections and explanations made, the said field notes, and the surveys ^{and resurveys} 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.~~