

BOOK "M"

FIELD NOTES

UL 23 1913

OF THE SURVEY OF THE

Subdivision Lines of T. 14 S. R. 30 E.

and resurvey of the East Boundary of T. 14 S. R. 30 E.

and South Boundary of T. 14 S. R. 30 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 *May 22nd*, 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, *June 20th*, 1912, pursuant to authority contained in the Act of Congress dated *August 23rd*, 1912

and resurvey
Survey commenced May 10, 1913

and resurvey
Survey completed May 19, 1913

BOOK 2663

INDEX DIAGRAM.

Township 14S, Range 30E

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Resurveyed

Subdivision of Tp. 14 S. R. 30 E.

Chains.

Survey commenced May 10, 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. 3, 4, 33 and 34 ^{on S. bdy. of} Tp. 14 S. R. 30 E., latitude $32^{\circ}09'24''N$; longitude $109^{\circ}17'W$, I set off $32^{\circ}09\frac{1}{2}''N$ on the lat. arc, $17^{\circ}41\frac{1}{2}''N$ on the decl. arc and at 5h.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 10, 1913.

May 11¹⁹¹³ At 4h.18.6m. p.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 $1^{\circ}32'$ to the west, and mark the meridian thus determined by cutting a small groove in the stone set May 10¹⁹¹³ on which the meridian falls 0.3 ins. east of the mark determined by the solar.

At 7h.00m. a.m. l.m.t., I set off $32^{\circ}09\frac{1}{2}''N$ on the lat. arc, $17^{\circ}50\frac{1}{2}''N$ 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. E. of the meridian established by the Polaris observation.

The solar apparatus by p.m. and a.m. observations, defines positions for meridians, respectively, about $0'16''E$. and $0'16''W$. 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 $N13^{\circ}30'W$; the angle thus determined gives the mag. decl. $13^{\circ}30'E$.

At 9h.00m. a.m. l.m.t., I set off $32^{\circ}09\frac{1}{2}''N$ on the lat. arc, $17^{\circ}51'N$ on the decl. arc and determine a meridian with the solar at the cor. of secs. 1, 2, 35 and 36, on the S. bdy. of Tp. ~~recently estab. by me~~ as described in Book "L". Thence I run, $N0^{\circ}17'W$, bet. secs. 35 and 36

Over rolling land, through dense brush.

Wash, 35 lks. wide, course N.E.

6.40
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 S35 in W. and S36 in E. half; raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor. Pits impracticable.

40.80
80.00

Wash, 18 lks. wide, course N.E.

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

T14SR30E in N. half;

S26 in N.W.

S25 in N.E.

S36 in S.E. and

S35 in S.W. quadrant;

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

Land, rolling.

Soil, coarse sand and gravel mixed with rocks, coarse texture, dry, 3rd rate.

No timber.

Undergrowth, dense greasewood and catclaw.

Subdivision of Tp. 14 S. R. 30 E.

Chains. East, on random line, bet. secs. 25 and 36
 40.00 Set temp $\frac{1}{4}$ sec. cor.
 79.96 Intersect E. bdy. of Tp., 7 lks. S. $0^{\circ}16'E$ of cor. of secs. 25, 30, 31 and 36, recently re-estab. by me as hereinafter described,
 Thence I run
 S89 $^{\circ}$ 57'W, on true line, bet. secs. 25 and 36
 Over rolling land, through dense brush.
 00.13 Road, bears N. and S.
 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 ¹⁹³¹ S25 in N. and S36 in S. half; dig pits 18x18x12 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, W. of cor.
 79.96 The cor. of secs. 25, 26, 35 and 36, hereinbefore described.
 Land, rolling.
 Soil, coares gravel and sand mixed with rocks, coarse texture, dry, 3rd rate.
 No timber.
 Undergrowth, dense greasewood and catclaw.

NO $^{\circ}$ 17'W, bet. secs. 25 and 26.
 Over rolling land, through dense brush.
 10.00 Brush becomes scattering.
 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 ¹⁹³¹ S26 in W. and S25 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, 1 $\frac{1}{2}$ ft. high, W. of cor.
 45.20 Wash, 18 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. 23, 24, 25 and 26, marked on brass cap, ¹⁹³¹
 T14SR30E in N. half;
 S23 in N.W.
 S24 in N.E.
 S25 in S.E. and
 S26 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, rolling.
 Soil, coarse gravel and sand mixed with rocks, coarse texture, dry, 3rd rate.
 No timber.
 Undergrowth, greasewood and catclaw.

N89 $^{\circ}$ 57'E, on random line, bet. secs. 24 and 25.
 40.00 Set temp $\frac{1}{4}$ sec. cor,
 79.98 Intersect E. bdy. of Tp., 7 lks. S. $0^{\circ}16'E$ of cor. of secs. 19, 24, 25 and 30, recently re-estab. by me as hereinafter described,
 Thence I run
 S89 $^{\circ}$ 54'W, on true line, bet. secs. 24 and 25
 Over rolling land, through scattering brush.
 2.44 Road, bears N. and S.
 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 cap ¹⁹³¹ 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.
 72.59 Wash, 20 lks. wide, course N.E.
 79.98 The cor. of secs. 23, 24, 25 and 26, hereinbefore described.
 Land, rolling.
 Soil, sandy loam mixed with coarse gravel over 2 ft. deep medium texture, dry, 2nd rate.
 No timber.
 Undergrowth, greasewood and catclaw.
 May 11¹⁹³¹ At this cor. I set off 17 $^{\circ}$ 52'N. on the decl. arc and observe the sun on the meridian at noon; the resulting latitude is 32 $^{\circ}$ 11'N.

Subdivision of Tp. 14 S. R. 30 E.

Chains. NO°17'W., bet. secs. 23 and 24,
 Over rolling land, through scattering brush.
 17.60 Wash, 25 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 S23 in W.
 and S24 in E. half; dig pits 18x18x12 ins. N. and S. of cor
 post, 3 ft. dist., and raise a mound of earth 3 $\frac{1}{2}$ ft. base,
 1 $\frac{1}{2}$ ft. high, W. of cor.
 40.65 Wash, 10 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. 13, 14, 23 and 24, marked on ~~cap~~
 brass cap¹⁹¹³;
 T14SR30E in N. half;
 S14 in N.W.
 S13 in N.E.
 S24 in S.E. and
 S23 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, 3 ft. high, W. of cor.
 Land, rolling.
 Soil, sandy loam mixed with gravel over 2 ft. deep, medium
 texture, dry, 2nd rate.
 No timber.
 Undergrowth, greasewood and catclaw.

40.00 N89°54'E, on random line, bet. secs. 13 and 24.
 Set temp. $\frac{1}{4}$ sec. cor.
 79.96 Intersect E. bdy. of Tp., at the cor. of secs. 13, 18, 19
 and 24, recently re-estab. by me as hereinafter described,
 Thence I run
 S89°54'W., on true line, bet. secs. 13 and 24
 Over rolling land, through dense brush.
 1.21 Road, bears N. and S.
 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 S13 in N.
 and S24 in S. half; dig pits 18x18x12 ins. E. and W. of cor
 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. Brush becomes scattering.
 79.96 The cor. of secs. 13, 14, 23 and 24, hereinbefore described.
 Land, rolling.
 Soil, sandy loam mixed with gravel, over 2 ft. deep, med-
 ium texture, dry, 2nd rate.
 No timber.
 Undergrowth, greasewood and catclaw.

NO°17'W., bet. secs. 13 and 14
 Over gently rolling land, through scattering brush.
 5.00 Brush becomes dense.
 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 S14 in W.
 and S13 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,
 1 $\frac{1}{2}$ ft. high, W. of cor.
 79.50 ~~Dive~~ road, bears E. and W.
 79.85 ~~Drain~~ road, bears E. and W.
 80.00 Set an iron post 3 ft. long, 2 ins. diam., 24 ins. in the
 ground for cor. of secs. 11, 12, 13 and 14, marked on
 brass cap¹⁹¹³;
 T14SR30E in N. half;
 S11 in N.W.
 S13 in N.E.
 S13 in S.E. and
 S14 in S.W. quadrant; from which
 A catclaw 3 ins. diam., bears N40°E 60 lks.
 dist., marked T14SR30ES12BT. No other trees within limits.
 Dig pits 18x18x12 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, gently rolling.
 Soil, sandy loam mixed with coarse gravel over 3 ft. deep
 medium texture, dry, 2nd rate.

Subdivision of Tp. 14 S. R. 30 E.

Chains, No timber.
Undergrowth, greasewood, catclaw and mesquite.
From this cor.
E.A. Washburn's well bears N39°51'E
" " " barn " N40°57'E.

N89°54'E, ~~bet.~~ encr. random line bet. secs. 12 and 13
40.00 Set temp. $\frac{1}{4}$ sec. cor.
79.89 Intersect E. bdy. of Tp., 7 lks. S. ^{0°16'E} of cor. of secs. 7,
12, 13 and 18, recently re-estab. by me as hereinafter described
Thence I run,
S89°51'W, on true line, bet. secs. 12 and 13
Over level land, through dense brush,
0.79 Road, bears N. and S.
1.49 Fence, bears N. and S., thence along N. side. of fence
about 50 lks. dist.
39.94 $\frac{1}{2}$ 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 ¹⁹¹¹ S12 in N.
and S13 in S. half; dig pits 18x18x12 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.
70.00 Soil changes from 1st. to 2nd rate.
79.89 The cor. of secs. 11, 12, 13 and 14, hereinbefore described.
Land, level.
Soil, sandy loam over 2 ft. deep, medium texture, dry,
1st rate., 70.00 chs. sandy loam mixed with gravel over
2 ft. deep, coarse texture, dry, 2nd rate. 10.00 chs.
No timber.
Undergrowth, greasewood, catclaw and mesquite.

May 11, 1913.

May 13, ¹⁹¹³ At 7H.00M. a.m. l.m.t., I set off 32°13'N. on
the lat. arc, 18°21'N. on the decl. arc and determine a
meridian with the solar at the cor. of secs. 11, 12, 13
and 14, hereinbefore described,
Thence I run
N0°17'W, bet. secs. 11 and 12.
Over level land, through dense brush and along E. side of
fence front 30 to 70 lks. dist.
6.00 Soil, changes from 2nd to 1st rate.
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 ¹⁹¹¹ S11 in W.
and S12 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,
1 $\frac{1}{2}$ ft. high, W. of cor.
42.30 E.A. Washburn's well bears N77°40'E
" " " barn " N77°09'E
79.55 Fence, bears E. and W., leave fence on W.
79.70 Road, bears E. and W.
80.00 Set an iron post 3 ft. long, 2 ins. diam., 24 ins. in the
ground for cor. of secs. 1, 2, 11 and 12, marked on brass
cap, ¹⁹¹³
T14SR30E in N. half;
S2 in N.W.
S1 in N.E.
S12 in S.E. and
S11 in S.W. quadrant;
Dig pits 18x18x12 ins. in each sec. 5 $\frac{1}{2}$ ft. dist., and
raise a mound of earth 3 ft. base, 2 ft. high, W. of cor.
Land, level.
Soil, sandy loam mixed with coarse gravel over 2 ft. deep
coarse texture, dry, 2nd rate, 6.00 chs. Sandy loam over
2 ft. deep, medium texture, dry, 1st rate. 74.00 chs.
No timber.
Undergrowth, greasewood, catclaw and mesquite.

Subdivision of Tp. 14 S. R. 30 E.

Chains. N89°51'E, on random line, bet. secs. 1 and 12
 40.00 Set temp. $\frac{1}{4}$ sec. cor.
 79.84 Intersect E. bdy. of Tp., at the cor. of secs. 1, 6, 7,
 and 12, recently re-estab. by me as hereinafter described,
 Thence I run
 S89°51'W, on true line, bet. secs. 1 and 12
 Over level land, through dense brush
 0.39 Road, bears N. and S., thence along N. side of road about
 30 lks. dist.
 1.00 Cor. of fence bears S. about 50 lks., fence runs parallel
 with my line 50 lks. dist.
 39.92 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 S1 in N.
 and S12 in S. half; dig pits 18x18x12 ins. E. and W. of a
 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. E. A. Washburn's well & barn, brs. S. 14° 15' E.
 79.84 The cor. of secs. 1, 2, 11 and 12, hereinbefore described.
 Land, level.
 Soil, sandy loam over 2 ft. deep, medium texture, dry,
 1st rate,
 No timber.
 Undergrowth, greasewood, mesquite and catclaw.

 North, on random line, bet. secs. 1 and 2.
 40.00 Set temp. $\frac{1}{4}$ sec. cor.
 80.43 Intersect N. bdy. of Tp. 47 lks. S89°53'E of cor. of secs. 1, 2,
 35 and 36, recently re-estab. by me as hereinafter described,
 Thence I run
 S0°20'E, on true line, bet. secs. 1 and 2.
 Over level land, through dense brush.
 40.43 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 S2 in W. a
 and S1 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,
 1 $\frac{1}{2}$ ft. high, W. of cor.
 75.28 Road, bears N.E. and S.W.
 80.43 The cor. of secs. 1, 2, 11 and 13, hereinbefore described.
 Land, level.
 Soil, sandy loam over 2 ft. deep, medium texture, dry,
 1st rate.
 No timber.
 Undergrowth, greasewood, mesquite and catclaw.

May 13, 1913.

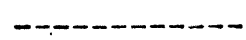
 May 12¹⁹¹³ At 7h. 00m. a.m. l.m.t., I set off 32°09'N on the
 lat. arc, 18°06'N on the decl. arc and determine a
 meridian with the solar at the cor. of secs. 2, 3, 34 and
 35, on S. bdy. of Tp. recently estab. by me as described in Book "L",
 Thence I run
 N0°17'W, bet. secs. 34 and 35.
 Over rolling 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 cap ¹⁹¹³ 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.
 75.50 Wash, 25 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. 26, 27, 34 and 35, marked on
 brass cap, ¹⁹¹³
 T14SR30E in N. half;
 S27 in N.W.
 S26 in N.E.
 S35 in SE. and
 S34 in S.W. quadrant;
 raise a mound of stone 2 ft. base, 1 $\frac{1}{2}$ ft. high, W. of cor.
 Pits impracticable.
 Land, rolling
 Soil, sandy loam mixed with coarse gravel and rocks,

Subdivision of Tn. 14 S. R. 30 E.

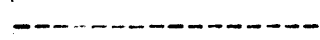
- Chains. coarse texture, dry, 3rd rate.
No timber.
Undergrowth, greasewood, mesquite and catclaw.
-
- East, on random line, bet. secs. 26 and 35
- 40.00 Set temp. $\frac{1}{4}$ sec. cor.
80.02 Intersect N. and S. line, 8 lks. S. of cor. of secs. 25, 26, 35 and 36, *hereinbefore described*,
Thence I run
S89°57'W, on true line, bet. secs. 26 and 35
Over rolling land, through dense brush.
- 26.70 Wash, 20 lks. wide, course N.E.
40.01 Set an iron post 3 ft. long, 1 in. diam., 26 ins. in the ground for $\frac{1}{4}$ sec. cor., marked on brass cap¹⁹³¹ 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.
- 40.60 Wash, 12 lks. wide, course N.E.
80.02 The cor. of secs. 26, 27, 34 and 35, *hereinbefore described*.
Land, rolling.
Soil, sandy loam mixed with coarse gravel and rocks, coarse texture, dry, 3rd rate.
No timber.
Undergrowth, greasewood and catclaw.
-
- N0°17'W, bet. secs. 26 and 27.
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 cap¹⁹³¹ 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.
- 73.50 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. 22, 23, 26 and 27, marked on brass cap¹⁹³¹;
T14SR30E in N. half;
S22 in N.W.
S23 in N.E.
S26 in S.E. and
S27 in S.W. quadrant;
Raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor. Pits impracticable.
Land, rolling.
Soil, sandy loam mixed with coarse gravel and rocks, coarse texture, dry, 3rd rate.
No timber.
Undergrowth, greasewood and catclaw.
-
- N89°57'E, on random line, bet. secs. 23 and 26
- 40.00 Set temp. $\frac{1}{4}$ sec. cor.
80.10 Intersect N. and S. line at the cor. of secs. 23, 24, 25 and 26, *hereinbefore described*,
Thence I run
S89°57'W, on true line, bet. secs. 23 and 26
Over rolling land, through scattering brush.
- 37.85 Wash, 60 lks. wide, course N.E., brush becomes dense.
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 cap¹⁹³¹ S23 in N. and S26 in S. half; dig pits 18x18x12 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.
- 78.40 Road, bears N.E. and S.W.
80.10 The cor. of secs. 22, 23, 26 and 27, *hereinbefore described*.
Land, rolling.
Soil, sandy loam mixed with coarse gravel and rocks, coarse texture, dry, 3rd rate.
No timber.
Undergrowth, greasewood and catclaw.

Subdivision of TP. 14 S. R. 30 E.

Chains. May 12¹⁹¹³ At this cor. I set off 18°08'N. on the decl. arc and observe the sun on the meridian at noon; the resulting latitude is 32°11'N.
 NO°17'W, bet. secs. 22 and 23.
 Over rolling land, through dense brush.
 20.10 Wash, 10 lks. wide, course N.E. Soil changes to 2nd rate.
 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 S22 in W. and S23 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, 1 $\frac{1}{2}$ ft. high, W. of cor.
 80.00 Set an iron post 3 ft. long, 2 in. diam., 24 ins. in the ground for cor. of secs. 14, 15, 22 and 23, marked on brass cap,¹⁹¹³
 T14SR30E 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 a mound of earth 3 ft. base, 2 ft. high, W. of cor.
 Land, rolling.
 Soil, sandy loam over 2 ft. deep mixed with gravel and rocks, coarse texture, dry, 3rd rate. 20.00 chs.
 sandy loam over 2 ft. deep mixed with gravel. coarse texture, dry, 2nd rate.
 No timber.
 Undergrowth, greasewood and catclaw.



40.00 N89°57'E, on random line, bet. secs. 14 and 23
 Set temp. $\frac{1}{4}$ sec. cor.
 80.12 Intersect N. and S. line, 3 lks. N. of cor. of secs. 13, 14, 22 and 24, hereinbefore described,
 Thence I run
 S89°58'W, on true line, bet. secs. 14 and 23
 Over rolling land, through dense brush.
 40.06 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 S14 in N. and S23 in S. half; dig pits 18x18x12 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.
 44.20 Road, bears N.E. and S.W.
 80.12 The cor. of secs. 14, 15, 22 and 23, hereinbefore described.
 Land, rolling.
 Soil, sandy loam over 2 ft. deep mixed with gravel, coarse texture, dry, 2nd rate.
 No timber.
 Undergrowth, greasewood and catclaw.



40.00 NO°17'W, bet. secs. 14 and 15,
 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 cap¹⁹¹³ S15 in W. and S14 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, 1 $\frac{1}{2}$ ft. high, W. of cor.
 80.00 Set an iron post 3 ft. long, 2 in. diam., 24 ins. in the ground for cor. of secs. 10, 11, 14 and 15, marked on brass cap,¹⁹¹³
 T14SR30E 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 a mound of earth 4 ft. base, 2 ft. high, W. of cor.
 Land, rolling.
 Soil, sandy loam over 2 ft. deep mixed with gravel, coarse texture, dry, 2nd rate.
 No timber.
 Undergrowth, greasewood and catclaw.

Subdivision of Tp. 14 S. R. 30 E.

Chains.	N89°58'E, on random line, bet. secs. 11 and 14.
40.00	Set temp. $\frac{1}{4}$ sec. cor.
80.16	Intersect N. and S. line at the cor. of secs. 11, 12, 13 and 14, <i>hereinbefore described</i> , Thence, I run
	S89°58'W, on true line, bet. secs. 11 and 14.
	Over gently rolling land, through dense brush.
0.27	Fence, bears N. and S.
13.20	Road, bears N.E. and S.W.
40.08	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 S11 in N. and S14 in S. half; dig pits 18x18x12 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.
75.00	Soil changes from 1st to 2nd rate.
80.16	The cor. of secs. 10, 11, 14 and 15, <i>hereinbefore described</i> . Land, gently rolling. Soil, sandy loam over 2 ft. deep, medium texture, dry, 1st rate., 75.00 chs. Sandy loam over 2 ft. deep mixed with gravel, coarse texture, dry, 2nd rate. 5.00 chs. No timber. Undergrowth, greasewood, catclaw and mesquite.
	May 12, 1913.

	May 13, ¹⁹¹³ At the cor. ^{of secs. 10, 11, 14 & 15} <i>hereinbefore described</i> I set off 18°23'N. on the decl. arc and observe the sun on the meridian at noon; the resulting latitude is 32°13'N.
	N0°17'W., bet. secs. 10 and 11,
	Over gently rolling land, through dense brush,
10.00	Soil, changes from 2nd to 1st rate.
29.10	Wash, 14 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 ¹⁹³¹ S10 in W. and S11 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, $1\frac{1}{2}$ 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. 2, 3, 10 and 11, marked on brass cap, 1913; T14SR30E 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 a mound of earth 4 ft. base, 2 ft. high, W. of cor. Land, gently rolling. Soil, sandy loam over 2 ft. deep mixed with gravel, coarse texture, dry, 2nd rate. 10.00 chs. Sandy loam over 2 ft. deep, medium texture, dry, 1st rate. No timber. Undergrowth, greasewood, mesquite and batclaw.

	N89°58'E on random line bet. secs. 2 and 11
40.00	Set temp. $\frac{1}{4}$ sec. cor.
80.18	Intersect N. and S. line 3 lks. N. of cor. of secs. 1, 2, 11 and 12, <i>hereinbefore described</i> , Thence I run
	S89°59'W. on true line bet. secs. 2 and 11
	Over level land, through dense brush.
0.98	Road, bears N. and S.
1.80	Fence, bears N. and S.
12.22	Fence, bears N. and S.
40.09	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 S2 in N. and S11 in S. half; dig pits 18x18x12 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.
80.18	The cor. of secs. 2, 3, 10 and 11, <i>hereinbefore described</i> .

Subdivision of Tp. 14 S. R. 30 E.

Chains.

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

N.0°17'W, bet. secs. 2 and 3, on true line,
Over level 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; S3 in W.
and S2 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,
 $1\frac{1}{2}$ ft. high, W. of cor.

80.37 Intersect N. bdy. of Tp. at a point from which the cor.
of secs. 34 and 35 bears S89°55' W 69 lks. dist.
recently re-established by me as herein after 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;
T138, S34, S35 in N;
T148 in S. and
R30E in W. 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 a mound of
earth 4 ft. base, 2 ft. high, S. of cor.

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

May 13, 1913.

May 14¹⁹¹³ At 7h.00m. a.m. l.m.t., I set off 32°09' N. on
the lat. arc, 18°35' N. on the decl. arc and determine
a meridian with the solat at the cor. of secs. 3, 4,
33 and 34, on S. bdy. of Tp. recently estab. by me as described in Book "L";

Thence I run

N0°18'W, bet. secs. 33 and 34,
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 cap, 1913; S33 in W.
and S34 in E. half; raise a mound of stone 2 ft. base, $1\frac{1}{2}$
ft. high, W. of cor., Pits impracticable.

41.70 Wash, 10 lkd. wide, course N.E.

80.00 Set an iron post 3 ft. long, 2 ins. diam., 24 ins. in
the ground for cpr. of secs. 27, 28, 33 and 34, marked on
brass cap, 1913;

T14SR30E in N. half;
S28 in N.W.
S27 in N.E.
S34 in S.E. and
S33 in S.W. quadrant;

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

Land, rolling.
Soil, sandy loam over 2 ft. deep, mixed with gravel and
scattering patches of rock, coarse texture, dry, 2nd rate.
No timber.
Undergrowth, catclaw.

East, on random line, bet. secs. 27 and 34

40.00 Set temp. $\frac{1}{4}$ sec. cor.
80.08 Intersect N. and S. line, 3 lks. S. of cor. of secs. 26,
27, 34 and 35, hereinbefore described,
Thence $\frac{1}{4}$ run

Subdivision of Tn. 14 S. R. 30 E.

Chains.	S89°59'W., on true line, bet. secs. 27 and 34 Over rolling land, through dense brush.
33.80	Wash, 10 lks. wide, course N.E.
35.48	Road, bears N.E. and S.W.
40.04	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 S27 in N. and S24 in S. half; dig pits 18x18x12 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. Soil, changes from 3rd to 2nd rate.
80.08	The cor. of secs. 27, 28, 33 and 34, <i>hereinbefore described</i> . Land, rolling. Soil, sandy mixed with coarse gravel and rock, coarse texture, dry, 3rd rate, 40.00 chs. Sandy loam over 2 ft. deep mixed with gravel, coarse texture, dry, 2nd rate. 40.00 chs. No timber. Undergrowth, greasewood and catclaw.

40.00	N0°18'W., bet. secs. 27 and 28, 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 ¹⁹³¹ S28 in W. and S27 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, 1 $\frac{1}{2}$ ft. high, W. of cor.
62.50	Wash, 25 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. 21, 22, 27 and 28, marked on brass cap, 1913; T14SR30E in N. half; S21 in N.W. S22 in N.E. S27 in S.E. and S28 in S.W. quadrant Raise a mound of stone 2 ft. base, 1 $\frac{1}{2}$ ft. high, W. of cor. Pits impracticable. Land, rolling. Soil, sandy loam mixed with gravel and scattering patches of rocks, coarse texture, dry, 2nd rate. No timber. Undergrowth, catclaw and greasewood.

40.00	N89°59'E, on random line, bet. secs. 22 and 27 Set temp. $\frac{1}{4}$ sec. cor.
80.10	Intersect N. and S. line 3 lks. S. of cor. of secs. 22, 23, 26 and 27, <i>hereinbefore described</i> , Thence I run
24.55	S89°58'W., on true line, bet. secs. 22 and 27. Over rolling land, through dense brush.
40.05	Wash, 25 lks. wide, course N.E. 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 S22 in N. and S27 in S. half; dig pits 18x18x12 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.
80.10	The cor. of secs. 21, 22, 27 and 28, <i>hereinbefore described</i> . Land, rolling. Soil, sandy loam mixed with gravel and scattering rocks, coarse texture, dry, 2nd rate, No timber. Undergrowth, greasewood. May 14 ¹⁹¹³ At this cor. I set off 18°38'N. on the decl. arc and observe the sun on the meridian at noon; the resulting latitude. is 32°11'N.

	N0°18'W., bet. secs. 21 and 22. Overrolling land, through dense brush

Subdivision of Tp. 14 S. R. 30 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 cap¹⁹³¹ S21 in W. and S22 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, 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 cap¹⁹¹³;
 T14SR30E 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 a mound of earth 4 ft. base, 3 ft. high, W. of cor. Land, rolling.
 Soil, sandy loam mixed with gravel, over 2 ft. deep, coarse texture, dry, 2nd rate.
 No timber.
 Undergrowth, greasewood and catclaw.

40.00 N89°58'E, on random line, bet. secs. 15 and 22
 Set temp. $\frac{1}{4}$ sec. cor.
 80.14 Intersect N. and S. line 3 lks. N. of cor. of secs. 14, 15, 22 and 23, hereinbefore described,
 Thence $\frac{1}{4}$ run

S89°59'W, on true line, bet. secs. 15 and 22.
 Over rolling land, through dense brush.

19.00 Wash, 60 lks. wide, course N.E.

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 cap¹⁹³¹ S15 in N. and S23 in S. half; raise a mound of stone 2 ft. base, 1 $\frac{1}{2}$ ft. high, N. of cor. Pits impracticable

80.14 The cor. of secs. 15, 16, 21 and 22, hereinbefore described.
 Land, rolling.
 Soil, sandy loam mixed with gravel and scattering rocks, coarse texture, dry, 2nd rate.
 No timber.
 Undergrowth, greasewood and catclaw.

20.00 N0°18'W, bet. secs. 15 and 16
 Over gently rolling land, through dense brush.
 Soil changes from 2nd to 1st rate.

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 cap¹⁹³¹ 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.

80.00 Set an iron post 3 ft. long, 2 ins. diam., 24 ins. in the ground for cor. of secs. 9, 10, 15 and 16, marked on brass cap¹⁹¹³;
 T14SR30E 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. deep 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, gently rolling.
 Soil, sandy loam mixed with gravel, coarse texture, dry, 2nd rate. 20.00 chs. Sandy loam 12 ins. deep, medium texture, dry, 1st rate. 60.00 chs.
 No timber.
 Undergrowth, greasewood.

Subdivision of Tn. 14 S. R. 30 E.

Chains. N89°59'E, on random line, bet. secs. 10 and 15.
 40.00 Set temp. $\frac{1}{4}$ sec. cor.
 80.18 Intersect N. and S. line at the cor. of secs. 10, 11, 14
 and 15, *hereinbefore described*,
 Thence I run
 S89°59'W., on true line, bet. secs. 10 and 15
 Over gently rolling land, through dense brush.
 40.09 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 $\frac{1931}{4}$ S10 in N.
 and S15 in S. half; raise a mound of stone 3 ft. base, 1 $\frac{1}{2}$
 ft. high, N. of cor. Pits impracticable.
 75.00 Soil, changes from 2nd to 1st rate.
 80.18 The cor. of secs. 9, 10, 15 and 16, *hereinbefore described*.
 Land, gently rolling.
 Soil, sandy loam mixed with gravel and scattering rocks
 coarse texture, dry. 2nd rate. 75.00 chs. Sandy loam
 12 ins. deep, medium texture, dry, 1st rate.
 No timber.
 Undergrowth, greasewood and catclaw.

May 14, 1913.

 May 16¹⁹¹³ At 7h.00m a.m. l.m.t., I set off 32°13'N on the
 lat. arc, 19°04'N. on the decl. arc and determine a
 meridian with the solar at the cor. of secs. 9, 10, 15
 and 16, *hereinbefore described*,

Thence I run
 N0°18'W, bet. secs. 9 and 10
 Over level 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 $\frac{189}{4}$ S9 in W. and
 S10 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, 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. 3, 4, 9 and 10, marked on brass
 cap, 1913;
 T14SR30E 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 a mound of earth 4 ft. base, 2 ft. high, W. of cor.
 Land, level.
 Soil, sandy loam over 2 ft. deep, medium texture, dry, 1st
 rate.
 No timber.
 Undergrowth, greasewood and catclaw.

 N89°59'E, on random line, bet. secs. 3 and 10
 40.00 Set temp. $\frac{1}{4}$ sec. cor.
 80.20 Intersect N. and S. line 2 lks. S. of cor. of secs. 2, 3,
 10 and 11, *hereinbefore described*,
 Thence I run
 S89°58'W, on true line, bet. secs. 3 and 10
 Over level land, through dense brush.
 40.10 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 $\frac{183}{4}$ S3 in N. and
 S10 in S. half; dig pits 18x18x12 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.
 54.00 Dim road, bears N.E. and S.W.
 80.20 The cor. of secs. 3, 4, 9 and 10, *hereinbefore described*.
 Land, level.
 Soil, sandy loam over 2 ft. deep, medium texture, dry, 1st
 rate.
 No timber.
 Undergrowth, catclaw, mesquite and greasewood.

Subdivision of Tr. 14 S. E. 30 E.

Chains. NO^{18'}W, bet. secs. 3 and 4, on true line,
 Over level land, through dense brush.
 0.74 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 S4 in W. and
 S3 in E. half; dig pits 18x18x18 ins. N. and S. of post,
 3 ft. dist., and raise a mound of earth 3 $\frac{1}{2}$ ft. base, 1 $\frac{1}{2}$
 ft. high, W. of cor.
 72.55 Road, N.E. and S.W.
 80.14 Intersect N. bdy. of Tr. at a point from which the cor.
 of secs. 33 and 34 ^{recently re-established by me as herein after described} bears S89^{48'}W 58 lks. dist.
 At point of intersection set an iron post 3 ft. long, 3
 ins. diam., 24 ins. in the ground for closing cor. of secs.
 3 and 4, marked on brass cap, ¹⁹¹³
 CC, S. of center;
 T13S, S33, S34 in N.
 T14S in S. and
 R30E in W. half;
 S3 in S.E. and
 S4 in S.W. quadrant;
 Dig pits 24x18x12 ins. crosswise on each line, E. and W.
 3 ft. base S. of post 7 ft. dist., and raise a mound of
 earth 4 ft. base, 2 ft. high, S. of cor.
 Land, level.
 Soil, sandy loam over 2 ft. deep, medium texture, dry, 1st
 rate.
 No timber.
 Undergrowth, greasewood, catclaw and mesquite,

May 16, 1913.

 May 15, ¹⁹¹³ At 7h.00m. a.m. l.m. t., I set off 32^{00'}N. on the
 lat. arc, 18^{50'}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 Tr. recently estab. by me as described in Book "L",

Thence I run

NO^{18'}W, bet. secs. 32 and 33.
 Over rolling land, through dense brush.
 23.70 Enter wash, from S.W., thence along bed of same.
 39.10 Leave bed of wash, 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 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.
 48.85 Same wash, 20 lks. wide, from S.E., course N.W.
 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
 T14SR30E in N. half;
 S29 in N.W.
 S28 in N.E.
 S33 in S.E. and
 S32 in S.W. quadrant;
 Raise a mound of stone 2 ft. base, 1 $\frac{1}{2}$ ft. high, W. of cor.
 Pits impracticable.
 Land, rolling.
 Soil, sand mixed with gravel and rock, coarse texture, dry
 2nd rate.
 No timber.
 Undergrowth, greasewood and catclaw.

 East, on random line, bet. secs. 28 and 33
 40.00 Set temp. $\frac{1}{4}$ sec. cor.
 79.96 Intersect N. and S. line, 3 lks. N. of cor. of secs. 27,
 28, 33 and 34, hereinbefore described,
 Thence I run
 N89^{59'}W, on true line, bet. secs. 28 and 33
 Over rolling land, through dense brush.
 27.40 Wash, 18 lks. wide, course N.E.
 39.98 Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the

Subdivision of Tr. 14 S. R. 30 E.

Chains.	ground for $\frac{1}{4}$ 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 a mound of earth $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high, N. of cor.
79.96	The cor. of secs. 28, 29, 32 and 33, hereinbefore described. Land, rolling. Soil, sand mixed with gravel and rock, coarse texture, dry, 2nd rate. No timber. Undergrowth, greasewood.

8.50	N0°18'W., bet. secs. 28 and 29, Over rolling land, through dense brush. Wash, 60 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 S29 in W. and S28 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, $1\frac{1}{2}$ 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. 20, 21, 28 and 29, marked on brass cap ¹⁹¹³ ; T14SR30E in N. half; S20 in N.W. S21 in N.E. S28 in S.E. and S29 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, rolling. Soil, sand mixed with gravel and scattering rock, coarse texture, dry, 2nd rate. No timber. Undergrowth, mesquite, catclaw and greasewood.

40.00	S89°59'E, on random line, bet. secs. 21 and 28, Set temp. $\frac{1}{4}$ sec. cor.
79.94	Intersect N. and S. line, 3 lks. S. of cor. of secs. 21, 22, 27 and 28, hereinbefore described, Thence I run West, on true line, bet. secs. 21 and 28 Over rolling land, through dense brush.
36.70	Wash, 2.00 chs. wide, course N.E.
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 cap ¹⁹¹³ 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.
79.94	The cor. of secs. 20, 21, 28 and 29, hereinbefore described, Land, rolling. Soil, sand mixed with gravel and rock, coarse texture, dry, 2nd rate. No timber. Undergrowth, catclaw and greasewood. May, 15 ¹⁹⁰⁹ At this cor. I set off 18°52'N. on the decl. arc and observe the sun on the meridian at noon; the resulting latitude is 32°11'N.

20.00	N0°18'W., bet. secs. 20 and 21, Over gently rolling land, through dense brush Soil changes from 2nd to 1st rate.
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 S20 in W. and S21 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, $1\frac{1}{2}$ ft. high, W. of cor.
77.15	Wash, 25 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. 16, 17, 20 and 21, marked on brass cap ¹⁹¹³ ;

Subdivision of Tp. 14 S. R. 30 E.

Chains. T14SR30E in N. half;
 S17 in N.W.
 S16 in N.E.
 S21 in S.E. and
 S20 in S.W. quadrant;
 Raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor.
 Pits impracticable.
 Land, gently rolling.
 Soil, sand mixed with gravel, coarse texture, dry, 2nd,
 rate, 20.00 chs. Sandy loam over 2 ft. deep, medium
 texture, dry, 1st rate, 60.00 chs.
 No timber.
 Undergrowth, mesquite and greasewood.

 East, on random line, bet. secs. 16 and 21
 40.00 Set temp. $\frac{1}{4}$ sec. cor.
 79.94 Intersect N. and S. line, 5 lks. N. of cor. of secs. 15,
 16, 21 and 22, hereinbefore described,
 Thence I run
 N89°58'W, on true line, bet. secs. 16 and 21.
 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 S16 in N.
 and S21 in S. half; dig pits 18x18x12 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.
 77.06 Wash, 20 lks. wide, course N.E.
 79.94 The cor. of secs. 16, 17, 20 and 21, hereinbefore described.
 Land, gently rolling.
 Soil, sandy loam over 2 ft. deep, medium texture, dry,
 1st rate.
 No timber.
 Undergrowth, greasewood.

 NO°18'W, bet. secs. 16 and 17.
 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 S17 in W.
 and S16 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,
 $1\frac{1}{2}$ 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. 8, 9, 16 and 17, marked on brass
 cap¹⁹¹³;
 T14SR30E 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 a mound of earth 4 ft. base, 2 ft. high, W. of cor.
 Land, gently rolling.
 Soil, sandy loam over 2 ft. deep, medium texture, dry,
 1st rate.
 No timber.
 Undergrowth, greasewood and mesquite.

May 15, 1913.

 May 16¹⁹¹³
 40.00 S89°58'E, on random line, bet. secs. 9 and 16,
 Set temp. $\frac{1}{4}$ sec. cor.
 79.90 Intersect N. and S. line, 2 lks. N. of cor. of secs. 9,
 10, 15 and 16, hereinbefore described,
 Thence I run
 N89°57'W, on true line, bet. secs. 9 and 16.
 Over gently rolling land, through dense brush.
 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 S9 in N. and

Subdivision of Tn. 14 S. R. 30 E.

Chains. S16 in S. half; dig pits 18x18x12 ins. E. and W. of post 3 ft. dist., and raise a mound of earth 3 1/2 ft. base, 1 1/2 ft. high, N. of cor.
 79.90 The cor. of secs. 8, 9, 16 and 17, hereinbefore described.
 Land, gently rolling.
 Soil, sandy loam over 2 ft. deep, medium texture, dry, 1st rate.
 No timber
 Undergrowth, greasewood and catclaw.
 May 16¹⁹¹³ At this cor. I set off 19°06'N. on the decl arc and observe the sun on the meridian at noon; the resulting latitude is 32°13'N.

NO°18'W, bet. secs. 8 and 9,
 Over level 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 cap¹⁹¹³ S8 in W. and S9 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.
 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
 T14SR30E 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 1/2 ft. dist., and raise a mound of earth 4 ft. base, 2 ft. high, W. of cor.
 Land, level.
 Soil, sandy loam over 2 ft. deep, medium texture, dry, 1st rate.
 No timber.
 Undergrowth, greasewood and catclaw.

S89°57'E, on random line, bet. secs. 4 and 9,
 40.00 Set temp. 1/4 sec. cor.
 79.86 Intersect N. and S. line, at the cor. of secs. 3, 4, 9, and 10, hereinbefore described,
 Thence I run
 N89°57'W, on true line, bet. secs. 4 and 9,
 Over level land, through dense brush.
 0.40 Road, bears N.E. and S.W.
 39.93 Set an iron post 3 ft. long, 1 in. diam., 26 ins. in the ground for 1/4 sec. cor., marked on brass cap¹⁹¹³ S4 in N. and S9 in S. half; dig pits 18x18x12 ins. E. and W. of post, 3 ft. dist., and raise a mound of earth 3 1/2 ft. base, 1 1/2 ft. high, N. of cor.
 79.86 The cor. of secs. 4, 5, 8, and 9, hereinbefore described.
 Land, level.
 Soil, sandy loam over 2 ft. deep, medium texture, dry, 1st rate.
 No timber.
 Undergrowth, greasewood, catclaw and mesquite.

NO°18'W, bet. secs. 4 and 5, on true line,
 Over level land, through dense brush.
 37.75 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 1/4 sec. cor., marked on brass cap¹⁹¹³ S5 in W. and S4 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.
 79.96 Intersect N. bdy. of Tn. at a point from which the cor. of secs. 32 and 33^{recently re-established by me as hereinbefore described} bears S89°48'W. 89 lks. dist.
 At point of intersection set an iron post 3 ft. long, 2 ins. diam., 24 ins. in the ground for closing cor. of secs.

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Chains. 4 and 5, marked on brass cap, 1913;
 CC, S. of center;
 T13S, S32, S33 in N.
 T14S in S. and
 R30E 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 a mound of
 earth 4 ft. base, 2 ft. high, S. of cor.
 Land, level.
 Soil, sandy loam over 2 ft. deep, medium texture, dry,
 1st rate.
 No timber.
 Undergrowth, catclaw and mesquite.

May 16, 1913.

May 17¹⁹¹³ At 7h.00m a.m. l.m. t., I set off 32°09½'N on the
 lat. arc, 19°18'N on the decl. arc and determine a merid-
 ian 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 L, Thence I run,
 N0°19'W, bet. secs. 31 and 32,
 Over fough rolling land, through dense brush.
 1.20 Wash 8 lks. wide, course N.E.
 38.00 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 ¼ sec. cor., marked on brass cap¹⁹¹³ S31 in W.
 and S32 in E. half; raise a mound of stone 2 ft. base, 1½
 ft. high, W. of cor. Pits impracticable.
 64.20 Wash, 8 lks. wide, course N.E.
 69.10 Road, bears S.E. and N.W.
 74.80 Wash, 16 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. 29, 30, 31 and 32, marked on
 brass cap, 1913;
 T14SR30E in N. half;
 S30 in N.W.
 S29 in N.E.
 S32 in S.E. and
 S31 in S.W. quadrant;
 Raise a mound of stone 2 ft. base, 1½ ft. high, W. of cor.
 Pits impracticable.
 Land, rough rolling.
 Soil, rocky 4th rate.
 No timber.
 Undergrowth, catclaw, mesquite and greasewood.

East, on random line, bet. secs. 29 and 32.
 40.00 Set temp. ¼ sec. cor.
 80.02 Intersect N. and S. line, 5 lks. N. of cor. of secs. 28,
 29, 32 and 33, hereinbefore described,
 Thence I run,
 N89°58'W, on true line, bet. secs. 29 and 32.
 Over rolling land, through dense brush.
 3.62 Wash, 60 lks. wide, course N.E.
 40.01 Set an iron post 3 ft. long, 1 in. diam., 26 ins. in the
 ground for ¼ sec. cor., marked on brass cap¹⁹¹³ S29 in E.
 and S32 in S. half; dig pits 18x18x12 ins. E. and W. of
 post, 3 ft. dist., and raise a mound of earth 3½ ft. base,
 1½ ft. high, N. of cor.
 54.52 Wash, 25 lks. wide, course N.E.
 78.82 Wash, 16 lks. wide, course N.E.
 80.02 The cor. of secs. 29, 30, 31 and 32, hereinbefore described.
 Land, rolling.
 Soil, sand mixed with coarse gravel and rock, coarse
 texture, dry. 3rd rate.
 No timber.
 Undergrowth, greasewood and catclaw.

Subdivision of Tp. 14 S. R. 30 E.

Chains.	West, on random line, bet. secs. 30 and 31.
40.00	Set temp. $\frac{1}{4}$ sec. cor.
79.90	Intersect W. bdy. of Tp., at the cor. of secs. 25, 30, 31 and 36, recently estab. by me as described in Book "L",
	Thence I run
	East, on true line, bet. secs. 30 and 31,
	Over rolling land, through dense brush.
39.90	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 S30 in N. and S31 in S. half; dig pits 18x18x12 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.
79.90	The cor. of secs. 29, 30, 31 and 32, hereinbefore described.
	Land, rolling.
	Soil, sand mixed with coarse gravel and rock, coarse texture, dry, 3rd rate.
	No timber.
	Undergrowth, catclaw and greasewood,

	N0°19'W, bet. secs. 29 and 30,
	Over rolling land, through dense brush
11.40	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 ¹⁹³¹ S30 in W. and S29 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, $1\frac{1}{2}$ ft. high, W. of cor.
70.00	Soil changes from 3rd to 1st rate.
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
	T14SR30E in N. half;
	S19 in N.W.
	S20 in N.E.
	S29 in S.E. and
	S30 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, rolling.
	Soil, sand mixed with coarse gravel and rock, coarse texture, dry, 3rd rate. 70.00 chs. Sandy loam over 2 ft. deep, medium texture, dry. 1st rate. 10.00 chs.
	No timber.
	Undergrowth, greasewood.
	May 17 ¹⁹¹³ At this cor. I set off 19°19'N. on the decl. arc and observe the sun on the meridian at noon: the resulting latitude is 32°11'N.

	S89°58'E, on random line, bet. secs. 20 and 29
40.00	Set temp. $\frac{1}{4}$ sec. cor.
80.06	Intersect N. and S. line, 5 lks. S. of cor. of secs. 20, 21, 28 and 29, hereinbefore described,
	Thence I run
	West, on true line, bet. secs. 20 and 29,
	Over rolling land, through dense brush.
35.30	Wash, 25 lks. wide, course N.E.
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 ¹⁹³¹ S20 in N. and S29 in S. half; dig pits 18x18x12 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.
80.06	The cor. of secs. 19, 20, 29 and 30, hereinbefore described.
	Land, rolling.
	Soil, sandy loam over 2 ft. deep, medium texture, dry, 1st rate.
	No timber.
	Undergrowth, greasewood and mesquite.

Subdivision of Tp. 14 S. R. 30 E.

Chains West, on random line, bet. secs. 19 and 30,
 40.00 Set temp. $\frac{1}{4}$ sec. cor.
 79.78 Intersect W. bdy. of Tp., 7 lks. N. $0^{\circ}19'W$. of cor. of secs. 19,
 24, 25 and 30, recently estab. by me as described in Book "L",
 Thence I run
 N89 $^{\circ}$ 57'E, on true line, bet. secs. 19 and 30,
 Over rolling land, through dense brush.
 35.00 Soil changes from 2nd to 1st rate.
 39.78 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 $19^{\circ}19'W$ S19 in N.
 and S20 in S. half; dig pits 18x18x12 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.
 79.78 The cor. of secs. 19, 20, 29 and 30, hereinbefore described.
 Land, rolling.
 Soil, sandy loam over 2 ft. deep mixed with coarse gravel
 coarse texture, dry, 2nd rate, 35.00 chs. Sandy loam over
 2 ft. deep, medium texture, dry, 1st rate, 45.00 chs.
 No timber.
 Undergrowth, greasewood and catclaw.

 N0 $^{\circ}$ 19'W, bet. secs. 19 and 20,
 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 cap $19^{\circ}19'W$ S19 in W.
 and S20 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,
 $1\frac{1}{2}$ ft. high, W. of cor.
 73.10 Dim 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. 17, 18, 19 and 20, marked on
 brass cap, 1913;
 T14SR30E in N. half;
 S18 in N.W.
 S17 in N.E.
 S20 in S.E. and
 S19 in S.W. quadrant;
 Raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor.
 Pits impracticable.
 Land, rolling.
 Soil, sandy loam over 2 ft. deep, medium texture, dry,
 1st rate.
 No timber.
 Undergrowth, mesquite.

 East, on random line, bet. secs. 17 and 20.
 40.00 Set temp. $\frac{1}{4}$ sec. cor.
 80.10 Intersect N. and S. line, 3 lks. S. of cor. of secs. 16,
 17, 20 and 21, hereinbefore described,
 Thence I run
 S89 $^{\circ}$ 59'W, on true line, bet. secs. 17 and 20
 Over 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 $19^{\circ}19'W$ S17 in N.
 and S20 in S. half; dig pits 18x18x12 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.
 80.10 The cor. of secs. 17, 18, 19 and 20, hereinbefore described.
 Land, rolling.
 Soil, sandy loam over 2 ft. deep, medium texture, dry,
 1st rate.
 No timber.
 Undergrowth, greasewood and mesquite.

May 17, 1913.

 May 19¹⁹¹³ At 7h.00m. a.m. l.m.t., I set off 32 $^{\circ}$ 12'N. on the
 lat. arc, 19 $^{\circ}$ 44'N. on the decl. arc and determine a merid-
 ian with the solar at the cor. of secs. 17, 18, 19, and 20,
 hereinbefore described.

Subdivision of Tp. 14 S. R. 30 E.

Chains.	Thence I run
	S89°57'W, on random line, bet. secs. 18 and 19.
40.00	Set temp. $\frac{1}{4}$ sec. cor.
79.68	Intersect W. bdy. of Tp., 5 lks. N. ^{0°19'W.} of cor. of secs. 13, 18, 19 and 24, recently estab. by me as described in Book "L",
	Thence I run,
	N89°55'E, on true line, bet. secs. 18 and 19.
	Over rolling land, through dense brush.
39.68	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 a mound of earth 3 $\frac{1}{2}$ ft. base, 1 $\frac{1}{2}$ ft. high, N. of cor.
70.88	Wash, 16 lks. wide, course N.E.
78.30	Wash, 10 lks. wide, course N.E.
79.68	The cor. of secs. 17, 18, 19 and 20, hereinbefore described.
	Land, rolling.
	Soil, sandy loam over 2 ft. deep, medium texture, dry, 1st rate.
	No timber.
	Undergrowth, catclaw, mesquite and greasewood.

	N0°19'W, bet. secs. 17 and 18,
	Over rolling land, through dense brush.
3.50	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 cap ¹⁹¹³ S18 in W. and S17 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, 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. 7, 8, 17 and 18, marked on brass cap, ¹⁹¹³ ;
	T14SR30E in N. half;
	S7 in N.W.
	S8 in N.E.
	S17 in S.E. and
	S18 in S.W. quadrant;
	Raise a mound of stone 2 ft. base, 1 $\frac{1}{2}$ ft. high, W. of cor.
	Pits impracticable.
	Land, rolling.
	Soil, sandy loam over 2 ft. deep, medium texture, dry, 1st rate.
	No timber.
	Undergrowth, catclaw, mesquite and greasewood.

	N89°59'E, on random line, bet. secs. 8 and 17.
40.00	Set temp. $\frac{1}{4}$ sec. cor.
80.12	Intersect N. and S. line, at cor. of secs. 8, 9, 16 and 17, hereinbefore described, thence I run,
	S89°59'W, on true line, bet. secs. 8 and 17.
	Over Rolling land, through dense brush.
40.06	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 a mound of earth 3 $\frac{1}{2}$ ft. base, 1 $\frac{1}{2}$ ft high, N. of cor.
80.12	The cor. of secs. 7, 8, 17 and 18, hereinbefore described.
	Land, rolling.
	Soil, sandy loam over 2 ft. deep, medium texture, dry, 1st rate.
	No timber,
	Undergrowth, greasewood and catclaw.

	S89°55'W, on random line, bet. secs. 7 and 18,
40.00	Set temp/ $\frac{1}{4}$ sec. cor.-
79.64	Intersect W. bdy. of Tp., 2 lks. N. ^{0°19'W.} of cor. of secs. 7, 12, 13 and 18, recently estab. by me as described in Book "L",

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Subdivision of Tp. 14 S. R. 30 E.

- Chairs. Thence I run
 N89°54'E, on true line, bet. secs. 7 and 18,
 Over rolling land, through dense brush
- 39.64 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 S7 in N. and
 S18 in S. half; dig pits 18x18x12 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.
- 79.64 The cor. of secs. 7, 8, 17 and 18, hereinbefore described.
 Land, rolling.
 Soil, sandy loam over 2 ft. deep, medium texture, dry,
 1st rate.
 No timber.
 Undergrowth, greasewood and catclaw.
 May 19¹⁹¹³ At this cor. I set off 19°46'N. on the decl. arc
 and observe the sun on the meridian at noon; the result-
 ing latitude is 32°13'N.
-
- NO°19'W, bet. secs. 7 and 8.
 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 S7 in W. and
 S8 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, 1 $\frac{1}{2}$
 ft. high, W. of cor.
- 80.00 Set an iron post 3 ft. long, 2 ins. diam., 34 ins. in the
 ground for cor. of secs. 5, 6, 7 and 8, marked on brass
 cap, 1913;
 T14SR30E 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. 5 $\frac{1}{2}$ ft. dist., and ra-
 raise a mound of earth 4 ft. base, 2 ft. high, W. of cor.
 Land, rolling.
 Soil, sandy loam over 2 ft. deep, medium texture, dry,
 1st rate.
 No timber.
 Undergrowth, greasewood, catclaw and mesquite.
-
- N89°59'E, on random line, bet. secs. 5 and 8.
- 40.00 Set temp. $\frac{1}{4}$ sec. cor.
- 80.10 Intersect N. and S. line, 5 lks. S. of cor. of secs. 4, 5,
 8 and 9, hereinbefore described,
 Thence I run,
 S89°57'W, on true line, bet. secs. 5 and 8.
 Over 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 cap¹⁹¹³ S5 in N. and
 S8 in S. half; dig pits 18x18x12 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.
- 80.10 The cor. of secs. 5, 6, 7 and 8, hereinbefore described.
 Land, rolling.
 Soil, sandy loam over 2 ft. deep, medium texture, dry,
 1st rate.
 No timber.
 Undergrowth, greasewood, catclaw and mesquite.
-
- S89°54'W, on random line, bet. secs. 6 and 7.
- 40.00 Set etmp. $\frac{1}{4}$ sec. cor.
- 79.62 Intersect W. bdy. of Tp., 3 lks. NO°19'W
 of cor. of secs. 1, 6,
 7 and 12, recently estab. by me as described in Book "L",
 Thence I run,
 N89°53'E, on true line, bet. secs. 6 and 7.
 Over rolling land, through dense brush.
- 39.62 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

Subdivision of Tp. 14 S. R. 30 E.

Chains. and S7 in S. half; raise a mound of stone 2 ft. base, 1½ ft. high, N. of cor. Pits impracticable.
 42.12 Wash, 3 lks. wide, course N.E.
 52.12 Road, bears N.E. and S.W.
 79.62 The cor. of secs. 5, 6, 7 and 8, hereinbefore described.
 Land, rolling.
 Soil, sandy loam over 2 ft. deep, medium texture, dry, 1st rate.
 No timber.
 Undergrowth, greasewood, catclaw and mesquite.

 N. 19' W., bet. secs. 5 and 6, on true line,
 Over rolling land, through dense brush.
 10.03 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 ¼ sec. cor., marked on brass cap¹⁹¹³ at S6 in W. and S5 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.
 79.77 Intersect N. bdy. of Tp. at a point from which the cor. of secs. 31 and 32, ^{recently re-established by the as hereinafter described} bears S89°48' W. 74 lks. dist.
 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, SS. of center.
 T13S, S31, S32 in N.
 T14S in S. and
 R30E in W. half;
 S5 in S.E. and
 S6 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 a mound of earth 4 ft. base, 2 ft. high, S. of cor.
 Land, rolling.
 Soil, sandy loam over 2 ft. deep, medium texture, dry, 1st rate.
 No timber
 Undergrowth, greasewood, catclaw and mesquite.

May 19, 1913.

 General Description.

This township is generally level excepting the extreme southern portion which is rolling. The drainage is north and northeast. The soil is a loose dry sandy loam of medium texture over 2 ft. deep 1st rate with the exception of the south-western portion which is somewhat rocky. A dense growth of brush covers the entire township, consisting of mesquite, cacti and greasewood. A few hackberry tree along the larger washes. A scanty growth of grass covers the township. There is no water in this township.

There are two settlers in sec. 1 and one settler in sec. 12.

John G. Hesse
 U. S. Surveyor.

BOOK 2633

Resurvey of E. Edy. of Tr. 14 S. R. 30 E.

Chains Survey commenced May 6, 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. 3, 4, 33 and 34 on ^{the Edy. of} Tr. 14 S. R. 30 E., latitude $32^{\circ}09'24''$ N., longitude $109^{\circ}17'$ W. I set off $32^{\circ}09\frac{1}{2}'$ N. on the lat. arc, $16^{\circ}36'$ N. on the decl. arc, and at 5h.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 6, 1913.

May 7¹⁹¹³ At 4h.34m. 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 $1^{\circ}22'$ to the west, and mark the meridian thus determined by cutting a small groove in the stone set May 6, on which the meridian falls 0.3 ins. east of the mark determined by the solar.

At 7h.00m a.m. l.m.t., I set off $32^{\circ}09\frac{1}{2}'$ N. on the lat. arc $16^{\circ}46'$ N. 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 $0'16''$ E. and $0'16''$ W. of the meridian established by the Polaris observations; therefore I conclude that the adjustments of the instruments are satisfactory.

The magnetic bearing of the true meridian at 7h.30m. a.m. is $N. 13^{\circ}-30' W.$ the angle thus determined gives the mag. decl. $13^{\circ} 30' E.$

At 9h.00m. a.m. l.m.t., I set off $32^{\circ}09\frac{1}{2}'$ N. on the lat. arc, $16^{\circ}46'$ N. on the decl. arc and determine with the solar a meridian at the cor. of Tps. 14 and 15 S. Rgs. 30 and 31 E. recently re-established by me, as described in Book "—",

Thence I run,

North, bet. secs. 31 and 36, on random line,

40.00 I make diligent search for old $\frac{1}{4}$ sec. cor. but fail to find any trace^{of same} therefore I continue my random line & measurement,

80.00 I make diligent search for old cor. of secs. 25, 30, 31 and 36 but fail to find any trace^{of same} therefore I continue my random line,

North, bet. secs. 25 and 30

40.00 I make diligent search for old $\frac{1}{4}$ sec. cor. but fail to find any trace^{of same} therefore I continue my random line,

80.00 I make diligent search for old cor. of secs. 19, 24, 25 and 30 but find no trace^{of same} therefore I continue my random line,

North, bet. secs. 19 and 24

40.00 I make diligent search for old $\frac{1}{4}$ sec. cor. but find no trace^{of same} therefore I continue my random line

80.00 I make diligent search for old cor. of secs. 13, 18, 19, and 24 but fail to find any trace^{of same} therefore I continue my random line,

North, bet. secs. 13 and 18,

40.00 I make diligent search for old $\frac{1}{4}$ sec. cor. but fail to find any trace^{of same} therefore I continue my random line

Resurvey of E. bdy. of Tp. 14 S. R. 30 E.

Chains.
 80.00 I make diligent search for old cor. of secs. 7, 12, 13 and 18 but find no trace of ^{same} therefore I continue my random line, North, bet. secs. 7 and 12,
 40.00 I make diligent search for old $\frac{1}{4}$ sec. cor. but find no trace of ^{same} therefore I continue my random line,
 80.00 I make diligent search for old cor. of secs. 1, 6, 7 and 12 but find no trace of ^{same} therefore I continue my random line, North, bet. secs. 1 and 6.
 40.00 I make diligent search for old $\frac{1}{4}$ sec. cor. but find no trace of ^{same} therefore I continue my random line,
 80.84 Intersect N. bdy. of Tp. at a point from which the old cor. of Tps. 13 and 14 S. Rgs. 30 and 31 E., which is an iron stake 1 in diam. 12 ins. long, driven 12 ins. in the ground at point for cor., slight trace of a pit on the east; bears $N89^{\circ}53'W$. 2.25 chs. dist. This falling answers to a correction of $0^{\circ}16'$, or $37\frac{1}{2}$ lks. west per mile counting from the S.E. cor. of the Tp.

May 7, 1913.

 May 8¹⁹¹³ At 7h.00m. a.m., l.m.t., I set off $32^{\circ}14\frac{1}{2}'N$. on the lat. arc, $17^{\circ}03'N$. on the decl. arc and determine a meridian with the solar at the cor. of Tps. 13 and 14 S. Rgs. 30 and 31 E., I destroy all trace 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 cor. of Tps. 13 and 14 S. Rgs. 30 and 31 E., marked on brass cap, 1913;
 T13S in N.
 R31E in E.
 T14S. in S. and
 R30E in W. half;
 S36 in N.W.
 S31 in N.E.
 S6 in S.E. and
 S1 in S.W. quadrant;
 Dig pits 24x24x12 ins. crosswise on each line, N., E., and W., 4 ft. and S. of post 8 ft. dist., and raise a mound earth 5 ft. base, $2\frac{1}{2}$ ft. high, S. of cor.
 Thence I run, on true line, resurveying E. bdy. of Tp. 14 S. R. 30 E. $50^{\circ}16'E$, bet. secs. 1 and 6,
 Over level land, along road, crossing and recrossing same Frame house (Hearn's) bears $N. 60^{\circ}25' W$.
 20.58 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;
 40.07 and S6 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, $1\frac{1}{2}$ ft. high, W. of cor.
 Thence along E. side of road.
 80.14 Set an iron post 3 ft. long, 3 ins. diam., 24 ins. in the ground for ^{re-established} cor. of secs. 1, 6 and 7, and 12, marked on brass cap, 1913;
 T14S in N. half;
 R30E, S1 in N.W.
 R31E, S6 in N.E.
 S7 in S.E. and
 S12 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, level.
 Soil, sandy loam over 2 ft. deep, medium texture, dry, 1st rate.
 No timber.
 No undergrowth.

 $50^{\circ}16'E$, bet. secs. 7 and 12,
 Over level land, along E. side. of road, through scattering brush. Fence about 60 lks. dist. on the E., bears N, and S.
 40.07 Set an iron post 3 ft. long, 1 in. diam., 26 ins. in the ground for ^{re-established} $\frac{1}{4}$ sec. cor., marked on brass cap, 1913;
 and S7 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,

Resurvey of E. Bdy. of Tr. 14 S. E. 30 E.

Chains. 1½ ft. high, W. of cor.
 80.14 Set an iron post 3 ft. long, 3 ins. diam., 24 ins. in the ground for ^{re-established} cor. of secs. 7, 12, 13, and 18, marked on brass cap, ¹⁹¹³13;
 T14S in N. half;
 R30E, S12 in N.W.
 R31E, S7 in N.E.
 S18 in S.E. and
 S13 in S.W. quadrant;
 Dig pits 18x18x12 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, sandy loam over 2 ft. deep, medium texture, dry, 1st rate.
 No timber.
 Undergrowth, scattering mesquite.

 SO°16'E., bet. secs. 13 and 18,
 Over gently rolling land, through dense brush.
 1.27 Fence, bears E. and W., enter cultivated land.
 3.91 Fence, bears E. and W., leave cultivated land.
 40.07 Set an iron post 3 ft. long, 1 in. diam., 26 ins. in the ground for ^{re-established} sec. cor., marked on brass cap, ¹⁹¹³13 and S18 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.
 80.14 Set an iron post 3 ft. long, 3 ins. diam., 24 ins. in the ground for ^{re-established} cor. of secs. 13, 18, 19 and 24, marked on brass cap, ¹⁹¹³13;
 T14S in N. half;
 R30E, S13 in N.W.
 R31E, S18 in N.E.,
 S19 in S.E. and
 S24 in S.W. quadrant;
 Dig pits 18x18x12 ins. in each sec. 5½ 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, medium texture, dry, 1st rate.
 No timber.
 Undergrowth, dense mesquite and greasewood.
 May 8¹⁹¹³ At this cor. I set off 17°05'N. on the decl. arc. and observe the sun on the meridian at noon; the resulting latitude is 32°12'N.

 SO°16'E., bet. secs. 19 and 24,
 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 ^{re-established} sec. cor., marked on brass cap, ¹⁹¹³13 and S19 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.
 80.14 Set an iron post 3 ft. long, 3 ins. diam., 24 ins. in the ground for ^{re-established} cor. of secs. 19, 24, 25 and 30, marked on brass cap, ¹⁹¹³13;
 T14S in N. half;
 R30E, S24 in N.W.
 R31E, S19 in N.E.
 S30 in S.E. and
 S25 in S.W. quadrant,
 Dig pits 18x18x12 ins. in each sec. 5½ 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, medium texture, dry, 1st rate.
 No timber.
 Undergrowth, dense mesquite and greasewood.

Resurvey of E. Bdy. of Tn. 14 S. R. 30 E.

Chains. SO°16'E., bet. secs. 25 and 30,
 Over gently rolling land, slightly ascending, through
 dense brush

24.90 Drain 8 lks. wide, course N.E.

40.07 Set an iron post 3 ft. long, 1 in. diam., 26 ins. in the
 ground for ^{re-established} sec. cor., marked on brass cap ¹⁹³¹ S25 in W. and
 and S30 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.

47.75 Leave brush, bears E. and W.

60.00 Enter dense brush, bears E, and W.

80.14 Set an iron post 3 ft. long, 3 ins. diam., 24 ins. in the
 ground for ^{re-established} cor. of secs. 25, 30, 31 and 36, marked on
 brass cap, 1913;
 T14S in N. half;
 R30E, S25 in N.W.
 R31E, S30 in N.E.
 S31 in S.E. and
 S36 in S.W. quadrant;
 Raised mound of stone 2 ft. base, 1½ ft. high, W. of cor
 Pits impracticable.
 Land, gently rolling, draining to N.E.
 Soil, sandy loam mixed with gravel, over 2 ft. deep,
 medium texture, dry, 1st rate.
 No timber.
 Undergrowth, dense mesquite and greasewood, 68.00 chs.

SO°16'E., bet. secs. 31 and 36,
 Over gently rolling land, slightly ascending through
 dense brush

4.00 Wash, 16 lks. wide, course N.E.

36.20 Wash, 20 lks. wide, course N.E.

40.07 Set an iron post 3 ft. long, 1 in. diam., 26 ins. in the
 ground for ^{re-established} sec. cor., marked on brass cap ¹⁹³¹ S36 in W.
 and S31 in E. half; raise a mound of stone 2 ft. base,
 1½ ft. high, W. of cor. Pits impracticable.

50.05 Wash, 12 lks. wide, course N.E.

62.15 Wash, 8 lks. wide, course N.E.

80.14 The cor. of Tps 14 and 15 S. Rgs. 30 and 31 E.
~~recently~~ ^{re-established} by me, as described in Book "-----"
 Land, gently rolling, draining to N.E.
 Soil, sandy loam mixed with gravel and occasional piece
 of rocky soil, over 2 ft. deep, medium texture, dry,
 1st rate.
 No timber.
 Undergrowth, dense greasewood.

May 8, 1915.

Resurvey of S. Bdy. of Tp. 13 S. R. 30 E.

Chains.	May 9 ¹⁹¹³ At 7h.00m a.m. l.m.t., I set off 32°14'N. on the lat. arc, 17°19'N. on the decl. arc and determine a meridian with the solar at the cor. of Tps. 13 and 14 S. Rgs. 29 and 30 E., re-established by me, May 5, 1913, as described in Book "L". Thence I run East, bet. secs. 6 and 31, on random line, Over level land, through dense brush
40.00	I make diligent search for old $\frac{1}{4}$ sec. cor. but find no trace ^{OF SAME} therefore I continue my random line,
80.00	I make diligent search for old cor. of secs. 5, 6, 31 and 32 but find no trace ^{OF SAME} therefore I continue my random line
40.00	East, bet. secs. 5 and 32, I make diligent search for old $\frac{1}{4}$ sec. cor. but find no trace ^{OF SAME} therefore I continue my random line
80.00	I make diligent search for old cor. of secs. 4, 5, 32 and 33 but find no trace ^{OF SAME} therefore I continue my random line
40.00	East, bet. secs. 4 and 33, I make diligent search for old $\frac{1}{4}$ sec. cor. but find no trace ^{OF SAME} therefore I continue my random line,
80.00	I make diligent search for old cor. of secs. 3, 4, 33 and 34 but find no trace ^{OF SAME} therefore I continue my random line,
40.00	East, bet. secs. 3 and 34, I make diligent search for old $\frac{1}{4}$ sec. cor. but find no trace ^{OF SAME} therefore I continue my random line
79.05	Fall 1.11 chs. S. of old cor. of secs. 2, 3, 34 and 35 which is an old redwood stake, 2 ft. long, 1 in square set 12 ins. in the ground, marks visible but illegible. No trace of pits or mound. True course & dist. of line back to cor. of Tps. 13 & 14 S. Rgs. 29 & 30 E. is therefore S. 89° 48' W., 319.05 chs. Continue random line
40.00	East, from this old cor. bet. secs. 2 and 35, I make diligent search for old $\frac{1}{4}$ sec. cor. but find no trace ^{OF SAME} therefore I continue my random line,
80.78	Fall 12 lks. S. of old cor. of secs. 1, 2, 35 and 36, which is an old redwood stake, 2 ft. long, 1 in square, 12 ins. in the ground, marked and witnessed as described by the Surv. Genl. No trace of pits or mound. True course and distance of South boundary of Sec. 35 is therefore S. 89° 55' W., 80.78 chs. Continue my random line
40.00	East, from this old cor. bet. secs. 1 and 36, I make diligent search for old $\frac{1}{4}$ sec. cor. but find no trace ^{OF SAME} therefore I continue my random line E.
80.04	Fall 16 lks. N. of cor. of Tps. 13 and 14 S. Rgs. 30 and 31 E. re-established yesterday as hereinbefore described. True course and dist. of S. bdy. of sec. 36 is therefore N. 89° 53' W., 80.04 chs. May 9, 1913.
	May 10 ¹⁹¹³ At 7h.00m. a.m. l.m.t., I set off 32°14'N. on the lat. arc, 17°35'N. on the decl. arc and determine a meridian with the solar at the cor. of Tps. 13 and 14 S. Rgs. 30 and 31 E., hereinbefore described, Thence I run, resurveying S. bdy. of Tp. 13 S. R. 30 E. N 89° 53' W., bet. secs. 1 and 36, on true line, Over level land, 24.52 Frame house, Hearn's, bears S42°15' E. 30.62 Road, bears N. and S. 35.34 Road, bears N.E. and S.W., enter dense brush. 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 S36 in N. and S1 in S. half; dig pits 18x18x12 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. 47.83 Frame house, bears S42°35' W. 56.30 Same house, bears S30°20' E. 78.84 Road, bears N.W. and S.E. 80.04 The old cor. of secs. 1, 2, 35 and 36, 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. 1, 2, 35 and 36, marked on brass cap, 1913; T158 in N. T148 in S. and R30E in W. half; S35 in N.W. S36 in N.E. S1 in S.E. and S2 in S.W. quadrant;

Resurvey of S. Bdy. of Tp. 13 S. R. 30 E.

Chains. Dig pits 18x18x12 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, level.
Soil, sandy loam over 2 ft. deep, medium texture, dry, 1st rate.
No timber.
Undergrowth, dense greasewood, and scattering mesquite.

 33.18 ^{on true line} S89°55'W. along S. bdy. of sec. 35,
 40.39 Over level land, through dense brush.
 Road, bears N.E. and S.W.
 40.39 Set an iron post 3 ft. long, 1 in. diam., 26 ins. in the ground for ^{re-established} sec. cor., marked on Brass cap ¹⁹¹³ S35 in N. half; dig pits 18x18x12 ins. E. and W. of post, 3 ft. dist., and raise a mound of earth 3 1/2 ft. base, 1 1/2 ft. high, N. of cor.
 75.78 Road, bears S.W. and N.E.
 80.78 The old cor. of secs. 2, 3, 34 and 35, ~~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. 34 and 35, marked on brass cap, ¹⁹¹³ T13S in N.
 S2, S3, T14S in S. and
 R30E in W. half;
 S34 in N.W. and
 S35 in N.E. quadrant;
 Dig pits 24x24x12 ins. in each sec. 6 ft. dist., and raise a mound of earth 4 ft. base, 2 ft. high, N. of cor. Land, level.
 Soil, sandy loam over 2 ft. deep, medium texture, dry, 1st rate.
 No timber.
 Undergrowth, dense greasewood, scattering catclaw and mesquite.

Note: From above cor. West to Tp. cor. all old cors. were missing therefore I ^{re}established them by the proportion of the resurveyed distance to the distance as given in the orig. notes of this line as follows: - 80.00 : 318.65 :: x : 319.05 = 80.10 chs. for S. bdy. of secs. 32, 33 & 34
 1319.05 chs. - 240.30 chs. = 78.75 chs. for S. bdy. of sec. 31

S89°48'W, along S. bdy. of sec. 34, ^{on true line},
 Over level land, through dense brush.
 0.20 Road, bears N. and S.
 40.05 Set an iron post 3 ft. long, 1 in. diam., 26 ins. in the ground for ^{re-established} sec. cor., marked on brass cap ¹⁹¹³ S34 in N. half; dig pits 18x18x12 ins. E. and W. of post, 3 ft. dist., and raise a mound of earth 3 1/2 ft. base, 1 1/2 ft. high, N. of cor.
 61.80 Road, bears N.E. and S.W.
 80.10 Set an iron post 3 ft. long, 3 ins. diam., 24 ins. in the ground for ^{re-established} cor. of secs. 33 and 34, marked on brass cap, ¹⁹¹³ T13S in N.
 S3, S4, T14S in S. and
 R30E in W. half;
 S33 in N.W. and
 S34 in N.E. quadrant;
 Dig pits 24x24x12 ins. in each sec. 6 ft. dist., and raise a mound of earth 4 ft. base, 2 ft. high, N. of cor. Land, level.
 Soil, sandy loam over 2 ft. deep, medium texture, dry, 1st rate.
 No timber.
 Undergrowth, dense greasewood, mesquite and catclaw.
 May 10¹⁹¹³ At this cor. I set off 17°37'N. on the decl. arc and observe the sun on the meridian at noon; the resulting latitude is 32°14 1/2'N.

 40.05 S89°48'W ^{on true line} along S. bdy. of sec. 33,
 Over level land, through dense brush.
 Set an iron post 3 ft. long, 1 in. diam., 26 ins. in the ground for ^{re-established} sec. cor., marked on brass cap ¹⁹¹³ S33 in N. half; dig pits 18x18x12 ins. E. and W. of post 3 ft. dist. and raise a mound of earth 3 1/2 ft. base, 1 1/2 ft. high, N.

Resurvey of S. Bdy. of Tps. 13 S. R. 30 E.

Chains. of cor.
 80.10 Set an iron post 3 ft. long, 3 ins. diam., 24 ins. in the ground for ^{re-established} cor. of secs. 32 and 33, marked on brass cap, 1913; T13S in N. S4, S5, T14S in S. and R30E in W. half; S32 in N.W. and S33 in N.E. quadrant; Dig pits 24x24x12 ins. in each sec. 6 ft. dist., and raise a mound of earth 4 ft. base, 2 ft. high, N. of cor. Land, level. Soil, sandy loam over 2 ft. deep, medium texture, dry, 1st rate. No timber. Undergrowth, dense catclaw.

 40.05 S89°48'W. ^{on true line} along S. Bdy. of Sec. 32, Over level land, through dense brush. Set an iron post 3 ft. long, 1 in. diam., 26 ins. in the ground for ^{re-established} cor. of sec. 32, marked on brass cap, 1913; S32 in N. half; dig pits 18x18x12 ins. E. and W. of post 3 ft. dist. and raise a mound of earth 3½ ft. base, 1½ ft. high. N. of cor.

80.10 Set an iron post 3 ft. long, 3 ins. diam., 24 ins. in the ground for ^{re-established} cor. of secs. 31 and 32, marked on brass cap, 1913; T13S in N. S5, S6, T14S in S. and R30E in W. half; S31 in N.W. and S32 in N.E. quadrant; Dig pits 24x24x12 ins. in each sec. 6 ft. dist., and raise a mound of earth 4 ft. base, 2 ft. high, N. of cor. Land, level. Soil, sandy loam over 2 ft. deep, medium texture, dry, 1st rate. No timber. Undergrowth, dense catclaw and mesquite.

 40.05 S89°48'W. ^{on true line} along S. bdy. of sec. 31, Over level land, through dense brush. Set an iron post 3 ft. long, 1 in. diam., 26 ins. in the ground for ^{re-established} cor. of sec. 31, marked on brass cap, 1913; S31 in N. half; dig pits 18x18x12 ins. E. and W. of post., 3 ft. dist., and raise a mound of earth 3½ ft. base, 1½ ft. high, N. of cor.

78.75 The cor. of Tps. 13 and 14 S. Rgs. 29 and 30 E., recently re-established by me as described in Book "L", Land, level. Soil, sandy loam over 2 ft. deep, medium texture, dry, 1st rate. No timber. Undergrowth, dense catclaw and mesquite.

May 10, 1913.

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 T. 14 S. R. 30 E. and resurveying the East Boundary of T. 14 S. R. 30 E. and South Boundary of T. 13 S. R. 30 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 direction; and that said survey^{and resurvey} has been, in all respects, to the best of our knowledge and belief, well and faithfully executed.

NAME.	PERIOD OF SERVICE.		CAPACITY.
	BEGUN.	ENDED.	
S. E. Lang	April 1, 1913	May 19, 1913	Chairman
E. E. Kealey	March 18, 1913	May 19, 1913	Chairman
J. S. Hughes	Feb. 9, 1913	May 19, 1913	Flagman
Frank J. McSherry	May 2, 1913	May 19, 1913	Coverman
C. W. Jones	May 17, 1913	May 19, 1913	Axman

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 22nd day of May, 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 T. 14 S. R. 30 E. and resurveyed the East Boundary of T. 14 S. R. 30 E. and South Boundary of T. 13 S. R. 30 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 ^{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 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 23rd day of December, 1913 }

Frank Ingalls
U. S. 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 14 South, Range No 30 East — and Resurvey of the

East boundary of Tp. 14 S. R. 30 E. and South boundary of Tp. 13 S. R. 30 E. of the Gila and Salt River Base and Meridian, Arizona.

executed by John F. Hesse, U. S. Surveyor

under his special instructions dated May 22nd

, 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 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.