

BOOK "B"

BOOK 2652

FIELD NOTES

OF THE SURVEY OF THE

Subdivision Lines of Tp. 17 S. Rg. 16 E.

AND RESURVEY OF

West boundary of Tp. 17 S. R. 17 E.,
South boundary of Tp. 16 S. R. 16 E., and
portion of West boundary of Tp. 16 S., R. 17 East

Of the Gila and Salt River Base^{3rd} 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 September 18, 1912.

and resurvey
Survey, completed October 13, 1912.

BOOK 2652

INDEX DIAGRAM.

Township 17 S. Range 16 E. 32

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Subdivision of Tp. 17 S. Rg. 16 E.

Chains.

Survey commenced September 18, 1912 and executed with a W. & 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. 17 18, 19 and 20, Tp. 17 S. Rg. 16 E. latitude 31° 56' 20" N., longitude 110° 45' 37" W.; I set off 31° 56½' N. On the lat. arc: 1° 45' N. on the decl. arc; and, at 5h. 00m. p.m., l.m.t., determine with the solar a meridian at the S. end of the meridian determined by observation of Polaris on September 14, and mark a point thereof on the stone set September 14, 5 chs. N. of my station; this mark falls 0.3 ins. west of the meridian established by the Polaris observation.

September 18, 1912.

September 19, 1912; At 7h. 00m. a.m., l.m.t., I set off 31° 56½' N. on the lat. arc; 1° 31½' 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" west and east 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. 00m. a.m., is N. 13° 51' W; the angle thus determined gives the magnetic decl. 13° 51' E.

I commence at the cor. of secs. 5, 6, 31 and 32 on the S. bdy. of the township, which is a porphyry stone 10x8x6 ins. above ground marked & witnessed as described by the surveyor general, thence I run,

N. 0° 01' E., bet. secs. 31 and 32 Descend rough N. slope of high mountain covered with loose rock.

- 5.40
- 9.80
- 15.50
- 20.00
- 32.50
- 40.00
- 40.70
- 59.75
- 75.30
- 80.00

- Cross wash 15 lks. wide course N. W. and ascend.
- Ridge bears N. W. and S. E. descend.
- Cross wash 15 lks. wide course N. W. ascend.
- Ridge bears N. W. and S. E. descend.
- Cross wash 20 lks. wide course N. E. descend along N. E. slope of mountain.
- Set an iron post 3 ft. long, 1 in. diam., 26 ins. in the ground for ¼ sec. cor., marked on brass cap S31 in W. and S32 in E. half; and raise a mound of stone 2 ft. base 1½ ft. high, W. of cor. Pits impracticable.
- Cross drain 10 lks. wide course N. E.
- Cross drain 10 lks. wide course N. E.
- Cross wash 40 lks. wide course N. W. ascend.
- 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, 1912;
- T175R16E in N. half;
- S30 in N. W.
- S29 in N. E.
- S32 in S. E. and
- S31 in S. W. quadrant; from which

A mesquite 12 ins. diam., bears N. 89° E. 165 lks. dist., marked T175R16ES29BT.

No other bearings available. Raise a mound of stone 2 ft. base 1½ ft. high, W. of cor. Pits impracticable.

Subdivision of Tp. 17 S. Rg. 16 E.

Chains

From this cor. J. Lopez' house bears N. 42° 30' W.
Land, rough and mountainous.
Soil, rocky; 4th. rate.
No timber.

Undergrowth, mesquite, catclaw and cactus.

NOTE: September 19: At this cor. I set off 1° 25' N. on the decl. arc; and observe the sun on the meridian at noon; the resulting lat. is 31° 54½' N.

40.00 West, on a random line, bet. secs. 30 and 31,
Set temp. ¼ sec. cor.
79.80 Intersect W. bdy. of Tp., 3 lks. N. of the cor. of secs.
25, 30, 31 and 36, recently estab. by me as described in Book "A",
Thence I run,
N. 89° 59' E., on a true line, bet. secs. 30 and 31.
Descend rough N. E. slope of mountain over loose rocks.
10.60 Cross wash 50 lks. wide course N. W.
22.00 Cross same wash course S. W.
28.00 Cross wash course N. W. and ascend rough N. W. slope of
mountain.
39.90 Set an iron post 3 ft. long, 1 in. diam., 26 ins. in the
ground for ¼ sec. cor., marked on brass cap ¹⁹¹² S30 in N.
and S31 in S. half; and raise a mound of stone 2 ft.
base 1½ ft. high, N. of cor. Pits impracticable.
62.00 Ridge bears N. and S. descend N. E. slope of mountain.
77.85 Cross wash 50 lks. wide course N. W. ascend.
79.80 The cor. of secs. 29, 30, 31 and 32, hereinbefore described.
Land, rough and mountainous.
Soil, rocky; 4th. rate.
No timber.
Undergrowth, mesquite, catclaw and cactus.

September 19, 1912.

September 20¹⁹¹²: At 7h. 00m. a.m., 1.m.t., I set off 31°
54½' N. on the lat. arc; 1° 08' N. on the decl. arc;
and determine a meridian with the solar at the cor. of
secs. 29, 30, 31 and 32, hereinbefore described,
Thence I run,
N. 0° 01' E. bet. secs. 29 and 30
Descend N. slope through scattering brush over loose rock
17.90 Cross fence bears N. E. and S. W.
32.90 Cross wash 45 lks. wide course N. W. and over rolling
hilly land.
39.35 Cross road bears N. W. and S. E. in wash 30 lks. wide
course N. 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 cap ¹⁹¹² S30 in W.
and S29 in E. half; from which
A paloverde 5 ins. diam., bears N. 84° W. 50
lks. dist., marked S30BT.
A paloverde 4 ins. diam., bears S. 17½° E. 42
lks. dist., marked S29BT.
42.21 From this point J. Lopez' house bears S. 24° 49' W.
49.40 Cross wash 50 lks. wide course N. W.
53.70 Fence bears N. E. and S. W.
57.20 Fence bears N. W. and S. E.
68.00 Road bears N. E. and S. W.
80.60 Set an iron post 3 ft. long, 2 ins. diam., 24 ins. in
the ground for cor. ¹⁹¹² of secs. 19, 20, 29 and 30, marked
on brass cap ¹⁹¹² W. C. N. of center.
T17SR16E in N. half;
S19 in N. W.
S20 in N. E.
S29 in S. E. and
S30 in S. W. quadrant; and raise a mound of stone 2 ft.
base 1½ ft. high, W. of cor. Pits impracticable.
Land, mountainous, hilly and rolling.
Soil, rocky; 4th. rate.

Subdivision of Tp. 17 S. Rg. 16 E.

Chains.

No timber.
Undergrowth, mesquite, catclaw, paloverde, cactus.

40.00 S. 89° 59' W., on a random line, bet. secs. 19 and 30,
Set temp. $\frac{1}{4}$ sec. cor. From true point for cor. 60 lks S. 01' W. witness cor.
79.80 Intersect West boundary of Tp., 7 lks. S. of the cor. of
secs. 19, 24, 25 and 30, recently estab. by me as described in Book "A"

NOTE: At this cor. I set off 1° 01½' N. on the
decl. arc; and observe the sun on the meridian at noon;
the resulting lat. is 31° 55½' N.

Thence I run
11.80 S. 89° 58' E., on a true line, bet. secs. 19 and 30
Over rolling land through dense brush.
16.00 Cross wash 40 lks. wide course N. W.
21.00 Cross wash 70 lks. wide course N. W.
21.00 Cross wash 25 lks. wide course N. W. and ascend.
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 ¹⁹¹² S19 in
N. and S30 in S. half; and raise a mound of stone 2 ft.
base 1½ ft. high, N. of cor. Pits impracticable.

60.80 Ridge bears N. W. and S. E. descend
79.80 The cor. of secs. 19, 20, 29 and 30, hereinbefore described
Land, rolling and mountainous.
Soil, rocky; 4th. rate.
No timber.
Undergrowth, mesquite, catclaw, paloverde, cactus.

0.60 N. 0° 01' E. bet. secs. 19 and 20 from true cor. point.
Along rough rocky E. slope of mountain ~~thru scattering brush~~ ^{thru scattering brush}
7.00 Witness cor. to cor. of secs. 19, 20, 29 & 30, hereinbefore described.
13.00 Cross wash 50 lks. wide course N. E.
15.00 Cross wash noted above course N. W.
36.50 Cross same wash course N. E.
Road bears N. W. and S. E.
38.50 Point for $\frac{1}{4}$ sec. cor. falls in wash so at
Set an iron post 3 ft. long, 1 in. diam., 26 ins. in
the ground for witness ¹⁹¹² $\frac{1}{4}$ sec. cor., marked on brass cap, ¹⁹¹²
WC $\frac{1}{4}$ in N. half; S20 in S. E. and S19 in S. W. quadrant;
from which

- A mesquite 10 ins. diam., bears N. 74½° W. 146
lks. dist., marked WC $\frac{1}{4}$ S19BT
- A paloverde 6 ins. diam., bears N. 32½° E. 73
lks. dist., marked WC $\frac{1}{4}$ S20BT

40.00 Cross wash 150 lks. wide course N. W., point for $\frac{1}{4}$ sec. cor.
45.80 Cross wash 50 lks. wide course N. W. ascend.
51.50 Ridge bears E. and W.
63.00 Cross wash 20 lks. wide course N. E.
72.00 Ridge bears N. E. and S. W. descend.
80.00 Set an iron post 3 ft. long, 2 ins. in diam., 24 ins. in
the ground for cor. of secs. 17, 18, 19, and 20, marked
on brass cap, ¹⁹¹²
T17SR16E in N. half;
S18 in N. W.
S17 in N. E.
S20 in S. E. and
S19 in S. W. quadrant; and raise a mound of stone 2 ft.
base 1½ ft. high, W. of cor. Pits impracticable.
Land, mountainous.
Soil, rocky, 4th. rate.
No timber.
Undergrowth, mesquite, catclaw and paloverde.

September 20, 1912.

September 21, ¹⁹¹² At 7h. 00m. a.m., l.m.t., I set off 31°
56½' N. on the lat. arc; 0° 45' N. on the decl. arc;
and determine a meridian with the solar at the cor. of

Subdivision of Tp. 17 S. Rg. 16 E.

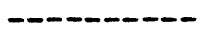
Chains.	secs. 17, 18, 19, and 20, hereinbefore described, Thence I run, N. 89° 58' W., on a random line, bet. secs. 18 and 19, Set temp. $\frac{1}{4}$ sec. cor. 40.00 79.70 Intersect W. bdy. of Tp., 9 lks. N. of the cor. of secs. 13, 18, 19, and 24, recently estab. by me as described in Book "A", Thence I run N. 89° 58' E., on a true line, bet. secs. 18 and 19 Over rolling land through dense brush. 39.85 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 ¹⁹¹² S18 in N. and S19 in S. half; from which A paloverde 6 ins. diam., bears S. 66 $\frac{1}{4}$ ° E. 131 lks. dist., marked $\frac{1}{4}$ S19BT A paloverde 7 ins. diam., bears N. 37 $\frac{3}{4}$ ° E. 107 lks. dist., marked $\frac{1}{4}$ S18BT. Thence ascend. 52.00 Ridge bears N. W. and S. E. 53.40 Road bears N. W. and S. E. 54.00 Cross wash 70 lks. wide course N. and over rolling land. 63.00 Cross wash 40 lks. wide course N. 79.70 The cor. of secs. 17, 18, 19 and 20, hereinbefore described. Land, rolling and mountainous. Soil, rocky; 4th. rate. No timber. Undergrowth, mesquite, paloverde, cactus.
40.00	N. 0° 01' E., bet. secs. 17 and 18 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 ¹⁹¹² S18 in W. and S17 in E. half; from which A mesquite 4 ins. diam., bears N. 51 $\frac{1}{4}$ ° W. 128 lks. dist., marked $\frac{1}{4}$ S18BT. A mesquite 10 ins. diam., bears S. 22 $\frac{1}{2}$ ° E. 76 lks. dist., marked $\frac{1}{4}$ S17BT.
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, ¹⁹¹² ; T17SR16E in N. half; S7 in N. W. S8 in N. E. S17 in S. E. and S18 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, rolling. Soil, rocky; 4th. rate. No timber. Undergrowth, mesquite, paloverde, catclaw and cactus.
40.00	S. 89° 58' W., on a random line, bet. secs. 7 and 18 Set temp. $\frac{1}{4}$ sec. cor. 79.74 Intersect W. bdy. of Tp., 3 lks. N. of the cor. of secs. 7, 12, 13 and 18, recently estab. by me as described in Book "A", Thence I run N. 89° 57' E., on a true line, bet. secs. 7 and 18 Over rolling land through dense brush. 2.50 Road bears N. E. and S. W. 21.30 Road bears N. W. and S. E. 39.87 Point for $\frac{1}{4}$ sec. cor., falls in wash 100 lks. wide course N. W. so at 40.00 Set an iron post 3 ft. long, 1 in. diam., 26 ins. in the ground for witness ^{corner to} $\frac{1}{4}$ sec. cor., marked on brass cap, ¹⁹¹² ; WC $\frac{1}{4}$ in E. half; S7 in N. W. and S18 in S. W. quadrant; from which A paloverde 5 ins. diam., bears N. 42 $\frac{1}{2}$ ° W. 53 lks. dist., marked WC $\frac{1}{4}$ S7BT A mesquite 4 ins. diam., bears S. 47° E. 159 lks. dist., marked WC $\frac{1}{4}$ S18BT.

Subdivision of Tp. 17 S. Rg. 16 E.

Chains.

75.50 Cross wash 40 lks. wide course N. W.
 79.74 The cor. of secs. 7, 8, 17 and 18, ~~hereinbefore~~ described
 Land, rolling.
 Soil, sandy loam mixed with rocks and gravel; 3rd. rate.
 No timber.

NOTE: Undergrowth, mesquite, paloverde, catclaw, cactus.
 September 21: At this cor. I set off $0^{\circ} 38\frac{1}{2}'$ N. on the
 decl. arc; and observe the sun on the meridian at noon;
 the resulting lat. is $31^{\circ} 57'$ N.



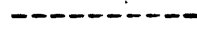
N. $0^{\circ} 01'$ E., bet. secs. 7 and 8
 Over rolling land, through dense brush.

10.70 Cross wash 20 lks. wide course N. W.
 14.50 Cross wash 15 lks. wide course N. W.
 17.00 Cross wash 30 lks. wide course N. W.
 20.90 Cross wash 15 lks. wide course N. W.
 21.60 Cross wash 20 lks. wide course N. W.
 23.50 Road bears N. W. and S. E.
 29.80 Cross wash 15 lks. wide course N. W.
 36.00 Cross wash 75 lks. wide course N. W. and over level 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 cap ⁹²¹ S7 in W.
 and S8 in E. half; from which

A mesquite 6 ins. diam., bears N. $44\frac{3}{4}^{\circ}$ W 153 lks.
 dist., marked $\frac{1}{4}$ S7BT

A mesquite 8 ins. diam., bears S. $51\frac{3}{4}^{\circ}$ E. 76 lks.
 dist., marked $\frac{1}{4}$ S8BT.

77.20 Cross 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. 5, 6, 7, and 8 marked on
 brass cap, ⁹¹²; T17SR16E in N. half;
 S6 in N. W.
 S5 in N. E.
 S8 in S. E. and
 S7 in S. W. quadrants; dig pits 18 x 18 x 12 ins. in each
 sec. $5\frac{1}{2}$ ft. dist., and raise a mound of earth 4 ft. base
 2 ft. high, W. of cor.
 Land, level and rolling; S. 39.00 chs. sandy loam, mixed
 with gravel and rocks; 3rd. rate. N. 41.00 chs. rich
 sandy loam; over 2 ft. deep; dry; medium texture; 1st.
 rate.
 No timber.
 Undergrowth; mesquite, paloverde, catclaw, cactus.



S. $89^{\circ} 57'$ W., on a random line, bet. secs. 6 and 7

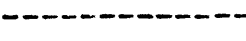
40.00 Set temp. $\frac{1}{4}$ sec. cor.
 79.58 Intersect W. bdy. of Tp. 7 lks. N. of the cor. of secs.
 1, 6, 7, and 12, recently estab. by me as described in Book "A";
 Thence I run,

N. $89^{\circ} 54'$ E., on a true line, bet. secs. 6 and 7

Over level land, through dense brush

5.26 Telephone line bears N. E. and S. W.
 12.30 Road bears N. E. and S. W.
 34.50 Cross wash 10 lks. wide course N. W.
 39.79 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 ⁹²¹ S6 in
 N. and S7 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.

40.50 Cross wash 10 lks. wide course N. W.
 58.25 Road bears N. W. and S. E.
 66.30 Cross wash 10 lks. wide course N. W.
 79.58 The cor. of secs. 5, 6, 7, and 8, ~~hereinbefore~~ described.
 Land, level.
 Soil, rich sandy loam, over two feet deep; dry; medium
 texture; 1st. rate.
 No timber.
 Undergrowth, mesquite, catclaw, paloverde, cactus.



Subdivision of T_p. 17 S. R_g. 16 E.

Chains
 14.70 N. 0° 01' E., bet. secs. 5 and 6, on true line,
 Over level land through dense brush
 36.00 Cross wash 30 lks. wide course N. W.
 40.00 Cross wash 100 lks. wide course N. W.
 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 ¹⁹¹² S6 in W.
 and S5 in E. half; dig pits 18 x 18 x 12 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.
 70.57 Intersect N. bdy. of T_p. 7, 60 chs. S. 89° 52' E. of the
 cor. of secs. 31 and 32, and set a granite stone 18 x 8 x
 6 ins. 12 ins. in the ground for closing cor. of secs.
 5 and 6, marked CC on S. with 5 grooves on E. and 1 groove
 W. faces; dig pits 24 x 18 x 12 ins. crosswise on each
 line, E. and W. 3 ft., and S. of stone 7 ft. dist., and
 raise a mound of earth, 4 ft. base 2 ft. high, S. of cor.
 Land, level.
 Soil, sandy loam, medium texture, dry, over 2 ft. deep;
 1st. rate.
 No timber.
 Undergrowth, mesquite, catclaw, paloverde and cactus.

September 21, 1912.

September 23¹⁹¹² At 7h. 00m. a.m., l.m.t., I set off 31°
 53 $\frac{1}{2}$ ' N. on the lat. arc; 0° 02' S. on the decl. arc; and
 determine a meridian with the solar at the cor. of secs.
 4, 5, 32 and 33, on the S. bdy. of the township, which
 is a stone marked and witnessed as described by the
 surveyor general,

Thence I run

N. 0° 01' E. bet. secs. 32 and 33
 Descend steep rocky N. W. slope of mountain .
 30.00 Cross drain 10 lks. wide course N. 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 ¹⁹¹² S32 in W.
 and S33 in E. half; and raise a mound of stone 2 ft.
 base 1 $\frac{1}{2}$ ft. high, W. of cor. Pits impracticable.
 44.00 Cross wash 40 lks. wide course N. W.
 48.00 Cross wash 30 lks. wide course N. W. and ascend steep
 rocky S. W. slope.
 62.00 High mountain ridge bears N. W. and S. E. and descend
 steep rocky N. W. slope.
 77.00 Cross wash 25 lks. wide course W. and ascend .
 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, ¹⁹¹²;
 T17SR16E in N. half;
 S29 in N. W.
 S28 in N. E.
 S33 in S. E. and
 S32 in S. W. quadrant; and raise a mound of stone 2 ft.
 base 1 $\frac{1}{2}$ ft. high, W. of cor. Pits impracticable.
 Land, rough and mountainous.
 Soil, rocky; 4th. rate.
 No timber.
 Undergrowth, mesquite, catclaw, paloverde, cactus and
 oak brush.

NOTE: At this cor. I set off 0° 08 $\frac{1}{2}$ ' S. on the
 decl. arc; and observe the sun on the meridian at noon;
 the resulting lat. is 31° 54 $\frac{1}{2}$ ' N.

40.00 West, on a random line, bet. secs. 29 and 32,
 Set temp. $\frac{1}{4}$ sec. cor.
 79.86 Intersect N. and S. line, 7 lks. S. of the cor. of secs.
 29, 30, 31 and 32, ~~hereinbefore~~ described,
 Thence I run,
 S. 89° 57' E., on a true line, bet. secs. 29 and 32

BOOK 2052

Subdivision of Tp. 17 S. Rg. 16 E.

Chains

11.97 Ascending through dense brush.
 16.00 Francisco Estrado's house bears N. 46° 10' E.
 20.00 Top of mountain ridge bears N. and S. descend.
 23.00 Cross drain 8 lks. wide course N. and along rough N. slope of mountain.
 26.15 Cross drain 10 lks. wide course N.
 31.80 Cross drain 10 lks. wide course N.
 39.93 Cross wash 30 lks. wide course N.
 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 ¹⁹²¹S29 in N. and S32 in S. half; and raise a mound of stone 2 ft. base $1\frac{1}{2}$ ft. high N. of cor. Pits impracticable.
 45.00 Cross wash 30 lks. wide course N. W.
 49.63 Francisco Estrado's house bears N. 11° 52' W.
 54.25 Cross wash 30 lks. wide course N. W.
 64.20 Cross wash 30 lks. wide course N. W.
 79.86 The cor. of secs. 28, 29, 32 and 33, hereinbefore described Ladd, rough and mountainous.
 Soil, rocky; 4th. rate.
 No timber.
 Undergrowth, Mesquite, catclaw, paloverde and cactus.

September 23, 1912.

September 24¹⁹¹² At 7h. 00m. a.m., l.m.t., I set off 31° 54 $\frac{1}{2}$ ' N. on the lat. arc; 0° 25' S. on the decl. arc; and determine a meridian with the solar at the cor. of secs. 28, 29, 32 and 33, hereinbefore described, Thence I run,
 N. 0° 01' E., bet. secs. 28 and 29,
 Ascend rough rocky slope of mountain.
 15.70 High mountain ridge bears N. W. and S. E. and from this point
 Windmill bears N. 41° E.
 Gallows frame Bears N. 48° 58' E. Cuprite Mine.
 Bunk house bears N. 42° 10' E.
 Descend.
 38.00 Cross drain 7 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 ¹⁹²¹S29 in W. and S28 in E. half; and raise a mound of stone 2 ft. base $1\frac{1}{2}$ ft. high, W. of cor. Pits impracticable.
 50.20 Cross road bears E. and W. in wash 20 lks. wide course N. E. and ascend.
 67.50 Top and descend.
 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 cap¹⁹¹²;
 T17SR16E in N. half;
 S20 in N. W.
 S21 in N. E.
 S28 in S. E. and
 S29 in S. W. quadrant; and raise a mound of stone 2 ft. base $1\frac{1}{2}$ ft. high, W. of cor. Pits impracticable.
 Land, mountainous.
 Soil, rocky; rth. rate.
 No timber.
 Undergrowth, mesquite, catclaw, paloverde and cactus.

NOTE:

At this cor. I set off 0° 31 $\frac{1}{2}$ ' S. on the decl. arc; and observe the sun on the meridian at noon; the resulting lat. is 31° 55 $\frac{1}{2}$ ' N.

40.00 N. 89° 57' W., on a random line, bet. secs. 20 and 29
 Set temp. $\frac{1}{4}$ sec. cor.
 79.82 Intersect N. and S. line, 9 lks. N. of the cor. of secs. 19, 20, 29, and 30, hereinbefore described, ^{true point for}
 Thence I run,
 N. 89° 59' E., on a true line, bet. secs. 20 and 29,

Subdivision of Tp. 17 S. Rg. 16 E.

Chains. From true point for cor.,
 Over rolling hills, through dense brush.
 3.00 Cross road bears N. and S.
 3.80 Cross fence bears N. and S.
 7.77 Cross wash 25 lks. wide course N.
 20.00 Cross wash 30 lks. wide course N.
 27.75 Cross wash 20 lks. wide course N.
 34.50 Cross wash 40 lks. wide course N.
 39.91 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 ¹⁹¹² S20 in
 N. and S29 in S. half; and raise a mound of stone 2 ft
 base $\frac{1}{2}$ ft. high, N. of cor. Pits impracticable.
 43.25 Fence bears N. and S.
 46.50 Cross wash 30 lks. wide course N. W. and ascend rough
 rocky W. slope of mountain
 49.20 Road bears N. W. and S. E.
 76.50 Ridge bears N. and S. descend.
 79.82 The cor. of secs. 20, 21, 28 and 29, hereinbefore described.
 Land, rolling hills and mountainous.
 Soil, rocky; 4th. rate.
 No timber.
 Undergrowth, mesquite, catclaw, paloverde and cactus.

 N. $0^{\circ} 01'$ E., bet. secs. 20 and 21
 Descend rocky N. E. slope of mountain through dense
 brush.
 38.50 Cross wash 15 lks. wide course 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 ¹⁹¹² S20 in
 W. and S21 in E. half; from which
 A mesquite 8 ins. diam., bears N. $38\frac{1}{2}^{\circ}$ W. 260
 lks. dist., marked $\frac{1}{4}$ S20BT.
 No other bearings available. Raise a mound of stone
 2 ft. base $\frac{1}{2}$ ft. high, W. of cor. Pits impracticable.
 43.90 Cross wash noted above 15 lks. wide course N. E.
 60.50 Cross wash 15 lks. wide course N. W. and over rolling
 land.
 68.50 Cross wash 50 lks. wide course N. W.
 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, ¹⁹¹²;
 T17SR16E in N. half;
 S17 in N. W.
 S16 in N. E.
 S21 in S. E. and
 S20 in S. W. quadrant; and raise a mound of stone 2 ft
 base $\frac{1}{2}$ ft. high, W. of cor. Pits impracticable.
 Land, mountainous. and rolling.
 Soil, rocky; 4th. rate.
 No timber.
 Undergrowth, mesquite, catclaw, paloverde and cactus.

September 24, 1912.

 September 25, ¹⁹¹² At 7h. 00m. a.m., l.m.t., I set off 31°
 $56\frac{1}{2}'$ N. on the lat. arc; $0^{\circ} 48\frac{1}{2}'$ S. on the decl. arc:
 and determine a meridian with the solar at the cor. of
 secs. 16, 17, 20 and 21, above described,
 Thence I run,
 S. $89^{\circ} 59'$ W., on a random line, bet. secs. 17 and 20
 40.00 Set temp. $\frac{1}{4}$ sec. cor.
 79.72 Intersect N. and S. line, 9 lks. S. of the cor. of secs.
 17, 18, 19, and 20, hereinbefore described,
 Thence I run
 S. $89^{\circ} 57'$ E., on a true line, bet. secs. 17 and 20
 Over rolling hills through dense brush.
 10.00 Cross wash 20 lks. wide course N. E.
 21.30 Cross wash 15 lks. wide course N.
 25.00 Cross wash 20 lks. wide course N.

Subdivision of Tp. 17 S. Rg. 16 E.

Chains.	
39.86	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 ¹⁹²¹ S17 in N. and S20 in S. half; from which A mesquite 6 ins. diam., bears N. $40\frac{1}{4}^{\circ}$ E. 80 lks. dist., marked $\frac{1}{4}$ S17BT A mesquite 8 ins. diam., bears S. $77\frac{3}{4}^{\circ}$ W. 243 lks. dist., marked $\frac{1}{4}$ S20BT
42.00	Cross wash 20 lks. wide course N.
61.12	Cross road bears N. E. and S. W.
63.00	Cross wash 20 lks. wide course N.
71.00	Cross wash 20 lks. wide course N.
79.72	The cor. of secs. 16, 17, 20 and 21, hereinbefore described. Land, hilly. Soil, rocky; 4th. rate. No timber. Undergrowth, mesquite, catclaw, paloverde and cactus.

	N. $0^{\circ} 01'$ E., bet. secs. 16 and 17, Over rolling land, through dense brush.
5.00	Cross road bears E. and W.
26.00	Cross wash 25 lks. wide course 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 ¹⁹²¹ S17 in W. and S16 in E. half; dig pits 18 x 18 x 12 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.
44.80	Cross wash 35 lks. wide course N. W.
72.00	Cross wash 15 lks. wide course N. W.
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 cap ¹⁹¹² ; T17SR16E in N. half; S8 in N. W. S9 in N. E. S16 in S. E. and S17 in S. W. quadrant; from which A mesquite 5 ins. diam., bears S. $4\frac{1}{2}^{\circ}$ W. 47 lks. dist., marked T17SR16ES17BT. No other bearings available. 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 rocks and gravel; 3rd. rate. No timber. Undergrowth, mesquite, catclaw, paloverde and cactus.

	N. $89^{\circ} 57'$ W., on a random line, bet. secs. 8 and 17
40.00	Set temp. $\frac{1}{4}$ sec. cor.
79.66	Intersect N. and S. line 9 lks. N. of the cor. of secs. 7, 8, 17 and 18, hereinbefore described, Thence I run N. $89^{\circ} 59'$ E., on a true line, bet. secs. 8 and 17, Over rolling land through dense brush.
18.30	Cross old road bears N. and S.
20.20	Cross wash 20 lks. wide course N. W.
27.00	Cross wash 30 lks. wide course N. W.
39.83	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 ¹⁹²¹ S8 in N. and S17 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.
45.00	Cross wash 30 lks. wide course N. W.
47.80	Cross wash 35 lks. wide course N. W.
78.00	Cross wash 15 lks. wide course N. W.
79.66	The cor. of secs. 8, 9, 16 and 17, hereinbefore described. Land, rolling. Soil, sandy loam mixed with rocks and gravel; 3rd. rate. No timber. Undergrowth, mesquite, catclaw, paloverde and cactus.
NOTE:	Clouds at noon prevented an observation for latitude.

Subdivision of Tp. 17 S. Rg. 16 E.

Chains.

September 25, 1912.

	<p>October 5¹⁹¹² At 7h. 00m. a.m., l.m.t., I set off 31° 57' N. on the lat. arc; 4° 41' S. on the decl. arc; and determine a meridian with the solar at the cor. of secs. 8, 9, 16 and 17, <u>hereinbefore described</u>, Thence I run, N. 0° 01' E., bet. secs. 8 and 9, Over rolling land, through dense brush Cross wash 40 lks. wide course N. W. Cross wash 50 lks. wide course N. W. Cross wash 15 lks. wide course N. W. Set an iron post 3 ft. long, 1 in. diam., 26 ins. in the ground for $\frac{1}{4}$ sec. cor., marked on brass cap¹⁹¹² S8 in W. and S9 in E. half; from which A paloverde 6 ins. diam., bears S. 50° E. 62 lks. dist., marked S9BT. A mesquite 7 ins. diam., bears N. 42° W. 123 lks. dist., marked S8BT. Cross wash 100 lks. wide course N. W. 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 cap¹⁹¹²; T17SR16E in N. half; S5 in N. W. S4 in N. E. S9 in S. E. and S8 in S. W. quadrant; from which A mesquite 5 ins. diam., bears N. 37$\frac{3}{4}$° W. 96 lks. dist., marked T17SR16ES5BT. No other bearings available. 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 rocks and gravel; 3rd. rate No timber. Undergrowth, mesquite, catclaw, paloverde and cactus.</p>
2.20	
34.50	
37.00	
40.00	
46.25	
80.00	
40.00	<p>S89° 59' W., on a random line, bet. secs. 5 and 8, Set temp. $\frac{1}{4}$ sec. cor. Intersect N. and S. line, 9 lks. S. of the cor. of secs. 5, 6, 7 and 8, <u>hereinbefore described</u>, Thence I run, S. 89° 57' E., on a true line, bet. secs. 5 and 8, Over rolling land, through dense brush. Cross old road bears N. E. and S. W. Cross wash 10 lks. wide course N. W. Cross wash 20 lks. wide course N. W. Cross wash 30 lks. wide course N. W. Set an iron post 3 ft. long, 1 in. diam., 26 ins. in the ground for $\frac{1}{4}$ sec. cor., marked on brass cap¹⁹¹² S5 in N. and S8 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. Cross wash 100 lks. wide course N. W. Cross wash 15 lks. wide course N. W. Cross wash 20 lks. wide course N. W. The cor. of secs. 4, 5; 8 and 9, <u>hereinbefore described</u> Land, rolling. Soil, sandy loam mixed with gravel; over 2 ft. deep; dry; 2nd. rate. No timber. Undergrowth, mesquite, catclaw, paloverde and cactus.</p>
79.72	
2.90	
6.20	
13.50	
29.30	
39.86	
53.25	
56.00	
61.50	
79.72	
0.75	<p>N. 0° 01' E., bet. secs. 4 and 5, on true line, Over rolling land, through dense brush. Cross wash 20 lks. wide course N. W. Cross wash 30 lks. wide course N. W.</p>
24.70	

Subdivision of Tp. 17 S. Rg. 16 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 cap ¹⁹²¹ S5 in W. and S4 in E. half; dig pits 18 x 18 x 12 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 Over level land.

70.16 Intersect N. bdy. of Tp., 7.18 chs. S. $89^{\circ} 44'$ E. of the cor. of secs. 32 and 33 T. 16 S. R16 E. ^{HEREINAFTER DESCRIBED} and set a granite stone 18 x 8 x 6 ins. 12 ins. in the ground for closing cor. of secs. 4 and 5, marked CC on S. with 4 grooves on E. and 2 grooves on W. faces; dig pits 24 x 18 x 12 ins. crosswise on each line E. and W. 3 ft. and S. of stone 7 ft. dist., and raise a mound of earth 4 ft. base 2 ft. high, S. of cor. Land, rolling and level. Soil, S. 40 chs. sandy loam mixed with gravel; dry; 2nd. rate. N. 30.16 chs. rich sandy loam, over 2 ft. deep; dry; medium texture; 1st. rate. No timber.

NOTE: Undergrowth, mesquite, catclaw, paloverde and cactus. Clouds prevented an observation for latitude at noon.

October 5, 1912.

September 26¹⁹¹² At 7h. oom. a.m., l.m.t., I set off $31^{\circ} 53\frac{1}{2}'$ N. on the lat. arc; $1^{\circ} 12'$ S. on the decl. arc; and determine a meridian with the solar at the cor. of secs. 3, 4, 33 and 34 on the S. bdy. of the township, which is a stone marked and witnessed as described by the surveyor general

Thence I run

N. $0^{\circ} 02'$ E., bet. secs. 33 and 34, Ascending steep slope, covered with loose rock.

8.25 Ridge bears E. and W. descend.

16.00 Wash 30 lks. wide course N. E. ascend.

21.50 Ridge bears N. E. and S. W. descend.

31.25 Cross wash 40 lks. wide course N. E. ascend.

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 ¹⁹²¹ S33 in W. and S34 in E. half; from which
 An oak 8 ins. diam., bears N. 30° W. 105 lks. dist., marked $\frac{1}{4}$ S33BT
 A catclaw 4 ins. diam., bears S. 20° E. 82 lks. dist., marked $\frac{1}{4}$ S34BT.

48.00 Ridge bears E. and W. descend.

59.00 Cross wash 15 lks. wide course N. W. and ascend.

61.00 Cross drain 10 lks. wide course N. W.

69.00 Ridge bears N. W. and S. E. descend.

71.00 Cross wash 25 lks. wide course N. W.

75.00 Cross wash 50 lks. wide course N. W.

77.50 Ridge bears N. W. and S. E. descend.

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 cap¹⁹¹²;
 T17SR16E in N. half;
 S28 in N. W.
 S27 in N. E.
 S34 in S. E. and
 S33 in S. W. quadrant; from which
 A mesquite 4 ind. diam., bears N. $47\frac{1}{2}^{\circ}$ W. 121 lks. dist., marked T17SR16ES28BT.

No other bearings available. Raise a mound of stone 2 ft base $1\frac{1}{2}$ ft. high, W. of cor. Pits impracticable. Land, high rough mountains. Soil, rocky; 4th. rate. No timber.

NOTE: Undergrowth, mesquite, catclaw, oak, paloverde and cactus. At this cor. I set off $1^{\circ} 18\frac{1}{2}'$ S. on the decl. arc; and observe the sun on the meridian at noon; the resulting lat. is $31^{\circ} 54\frac{1}{2}'$ N.

Subdivision of Tp. 17 S. Rg. 16 E.

Chains.

West, on a random line, bet. secs. 28 and 33.
 40.00 Set temp. $\frac{1}{4}$ sec. cor.
 79.96 Intersect N. and S. line, 5 lks. S. of the cor. of secs. 28, 29, 32 and 33, hereinbefore described
 Thence I run,
 S. $89^{\circ} 58'$ E., on a true line, bet. secs. 28 and 33, Ascending along rough rocky S. W. slope of mountain through dense brush.
 6.45 Cross wash 15 lks. wide course S. W. and ascend W. slope
 19.40 Ridge bears N. and S. descend.
 37.80 Cross wash 20 lks. wide course N. E. and along rough N. slope of mountain.
 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 ¹⁹¹² S28 in N. and S33 in S. half; and raise a mound of stone 2 ft. base $1\frac{1}{2}$ ft. high, N. of cor. Pits impracticable.
 41.50 Cross wash noted above course S. W.
 46.32 Cross wash 40 lks. wide course N. E.
 57.00 Cross wash 15 lks. wide course N.
 61.50 Cross wash 10 lks. wide course N.
 66.10 Cross wash 25 lks. wide course N.
 79.96 The cor. of secs. 27, 28, 33 and 34, hereinbefore described
 Land, rough and mountainous.
 Soil, rocky; 4th. rate.
 No timber.
 Undergrowth, mesquite, paloverde, catclaw and cactus.

September 26, 1912.

September 27¹⁹¹² At 7h. 00m. a.m., l.m.t., I set off $31^{\circ} 54\frac{1}{2}'$ N. on the lat. arc; $1^{\circ} 35\frac{1}{2}'$ S. on the decl. arc; and determine a meridian with the solar at the cor. of secs. 27, 28, 33 and 34, hereinbefore described,

Thence I run,
 N. $0^{\circ} 02'$ E., bet. secs. 27 and 28,
 Descending through dense brush.
 0.25 Cross wash 25 lks. wide course W. and ascend.
 15.80 Ridge bears N. W. and S. E. descend.
 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 ¹⁹¹² S28 in W. and S27 in E. half; and raise a mound of stone 2 ft. base $1\frac{1}{2}$ ft. high, W. of cor. Pits impracticable.
 47.50 Cross wash 20 lks. wide course N. W. ascend.
 51.00 Ridge bears N. W. and S. E. descend.
 70.50 Cross wash 40 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. 21, 22, 27 and 28, marked on brass cap, ¹⁹¹² T17SR16E in N. half;
 S21 in N. W.
 S22 in N. E.
 S27 in S. E. and
 S28 in S. W. quadrant; and raise a mound of stone 2 ft. base $1\frac{1}{2}$ ft. high, W. of cor. Pits impracticable.
 Land, rough and mountainous.
 Soil, rocky; 4th. rate.
 No timber.
 Undergrowth, mesquite, paloverde, catclaw and cactus.

NOTE: At this cor. I set off $1^{\circ} 42'$ S. on the decl. arc; and observe the sun on the meridian at noon; the resulting lat. is $31^{\circ} 55\frac{1}{2}'$ N.

N. $89^{\circ} 58'$ W., on a random line, bet. secs. 21 and 28.
 40.00 Set temp. $\frac{1}{4}$ sec. cor.
 79.90 Intersect N. and S. line, 21 lks. N. of the cor. of secs. 20, 21, 28 and 29, hereinbefore described,
 Thence I run,
 N. $89^{\circ} 53'$ E., on a true line, bet. secs. 21 and 28
 Descending through dense brush.

Subdivision of Tp. 17 S. Rg. 16 E.

Chains
 1.20 Cross drain 10 lks. wide course N.
 27.40 Cross wash 10 lks. wide course N. ascend.
 38.50 Ridge bears N. E. and S. W. descend.
 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 cap ¹⁹¹² S21 in N. and S28 in S. half; and raise a mound of stone 2 ft. base $\frac{1}{2}$ ft. high, N. of cor. Pits impracticable. ascend.
 41.50 Ridge bears N. and S. and from this point
 Windmill bears S. 19° 30' E.
 Gallows frame bears S. 12° E. Cuprite Mine.
 Bunk house bears S. 5° E.
 Descend.
 53.35 Cross road bears N. E. and S. W. in wash 160 lks. wide course N. E. ascend.
 58.60 Ridge bears N. and S. descend.
 63.00 Cross wash 30 lks. wide course N.
 63.50 Cross wash 40 lks. wide course N. W. ascend.
 73.50 Ridge bears N. and S. descend.
 79.90 The cor. of secs. 21, 22, 27 and 28, ¹⁹¹² hereinafore described Land, mountainous and rough.
 Soil, rocky; 4th. rate.
 No timber.
 Undergrowth, mesquite, catclaw, paloverde and cactus.

September 27, 1912.

September 28¹⁹¹² At 7h. 00m., a.m., l.m.t., I set off 31° 55 $\frac{1}{2}$ ' N. on the lat. arc; 1° 58 $\frac{1}{2}$ ' S. on the decl. arc; and determine a meridian with the solar at the cor. of secs. 21, 22, 27 and 28; ¹⁹¹² hereinafore described,

Thence I run,

N. 0° 02' E., bet. secs. 21 and 22,
 Descending through dense brush.

19.30 Wash 50 lks. wide course N. bears E. E. and along in wash

40.00 Point for $\frac{1}{4}$ sec. cor. falls in wash

43.88 Leave wash course N. W.

45.00 Set an iron post 3 ft. long, 1 in. diam., 26 ins. in the ground for witness ¹⁹¹² $\frac{1}{4}$ sec. cor., marked on brass cap ¹⁹¹² WC $\frac{1}{4}$ in N. half; S22 in S. E. and S21 in S. W. quadrant; from which

A mesquite 5 ins. diam., bears S. 43° E. 42 lks. dist., marked WC $\frac{1}{4}$ S22BT

A mesquite 6 ins. diam., bears N. 17 $\frac{1}{2}$ ° W. 100 lks. dist., marked WC $\frac{1}{4}$ S21BT.

52.40 Cross wash 20 lks. wide course N. W.

54.50 Road bears N. W. and S. E.

65.00 Cross wash 15 lks. wide course N. W.

78.80 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. 15, 16, 21 and 22 marked on brass cap, ¹⁹¹²

T17SR16E in N. half;

S16 in N. W.

S15 in N. E.

S22 in S. E. and

S21 in S. W. quadrant; and raise a mound of stone 2 ft. base $\frac{1}{2}$ ft. high, W. of cor. Pits impracticable.

Land, mountainous.

Soil, rocky; 4th. rate.

No timber.

Undergrowth, mesquite, paloverde, catclaw and cactus.

S. 89° 53' W., on a random line, bet. secs. 16 and 21

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

79.94 Intersect N. and S. line, 19 lks. S. of the cor. of secs. 16, 17, 20 and 21, ¹⁹¹² hereinafore described,

Thence I run,

Subdivision of Tr. 17 S. Rg. 16 E.

Chains.

- S. $89^{\circ}59'$ E., on a true line, bet. secs. 16 and 21
Ascending through dense brush.
- 18.00 Cross wash 35 lks. wide course N. W.
- 24.00 Cross road bears N. E. and S. W.
- 33.00 Ridge bears N. and S. and along N. slope of mountain
- 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 ¹⁹²¹ S16 in N.
and S21 in S. half; and raise a mound of stone 2 ft. base
 $1\frac{1}{2}$ ft. high, N. of cor. Pits impracticable.
- 44.00 Descend E. slope.
- 48.25 Cross wash 20 lks. wide course N. W.
- 51.50 Cross wash 100 lks. wide course N. W. and over rolling
land.
- 53.90 Road bears N. W. and S. E.
- 64.50 Cross wash 30 lks. wide course N. W.
- 77.10 Cross wash 20 lks. wide course N. W.
- 78.50 Road bears N. W. and S. E.
- 79.94 The cor. of secs. 15, 16, 21 and 22, ~~hereinbefore~~ described.
Land, mountainous and hilly.
Soil, rocky; 4th. rate.
No timber.

Undergrowth, mesquite, paloverde, catclaw, and cactus.

NOTE: At this cor. I set off $2^{\circ}05'$ S. on the
decl. arc; and observe the sun on the meridian at noon;
the resulting lat. is $31^{\circ}56\frac{1}{2}'$ N.

- N. $0^{\circ}02'$ E., bet. secs. 15 and 16,
Descending over rolling land through dense brush.
- 37.00 Cross wash 15 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 ¹⁹²¹ S16 in
W. and S15 in E. half; and raise a mound of stone 2 ft.
base $1\frac{1}{2}$ ft. high, W. of cor. Pits impracticable.
- 45.50 Cross wash 20 lks. wide course N. W. and ascend
- 52.00 Top hill descend.
- 61.00 Cross same wash noted above course N. E. and over rolling
land.
- 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 cap, ¹⁹¹²;
T17SR16E in N. half;
S9 in N. W.
S10 in N. E.
S15 in S. E. and
S16 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, rolling and hilly.
Soil, rocky; 4th. rate.
No timber.
Undergrowth, mesquite, catclaw, paloverde and cactus.

- N. $89^{\circ}59'$ W., on a random line, bet. secs. 9 and 16
- 40.00 Set temp. $\frac{1}{4}$ sec. cor.
- 79.80 Intersect N. and S. line, 9 lks. N. of the cor. of secs.
8, 9, 16 and 17, ~~hereinbefore~~ described,
Thence I run,
N. $89^{\circ}57'$ E., on a true line, bet. secs. 9 and 16
Over rolling land, through dense brush.
- 1.50 Cross wash 20 lks. wide course NW.
- 15.20 Cross wash 30 lks. wide course N. E.
- 22.00 Cross wash 20 lks. wide course N. W.
- 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 ¹⁹²¹ S9 in N. and
S16 in S. half; from which
A paloverde 5 ins. diam., bears S. $43\frac{1}{2}^{\circ}$ W. 117
lks. dist., marked $\frac{1}{4}$ S16BT.
No other bearings available. Dig pits 18 x 18 x 12 ins.
E. and W. of post 3 ft. dist. and raise a mound of earth

Subdivision of Tp. 17 S. Rg. 16 E.

Chains
 3½ ft. base 1½ ft. high, N. of cor.
 41.60 Cross wash 40 lks. wide course N.
 45.50 Cross wash 50 lks. wide course N. W.
 77.75 Cross road bears N. and S.
 79.80 The cor. of secs. 9, 10, 15 and 16, ~~heretofore~~ ^{hereinbefore} described
 Land, rolling,
 Soil, sandy loam mixed with rocks and gravel; 3rd. rate.
 No timber.
 Undergrowth, mesquite, paloverde, catclaw and cactus.
 September 28, 1912.

October 12¹⁹¹² At 7h. 00m. a.m., l.m.t., I set off 31° 57' N. on the lat. arc; 7° 20½' S. on the decl. arc; and determine a meridian with the solar at the cor. of secs. 9, 10, 15 and 16, ~~heretofore~~ ^{hereinbefore} described,
 Thence I run,
 N. 0° 02' E., bet. secs. 9 and 10,
 Over rolling land through dense brush.
 10.25 Road bears N. E. and S. W.
 14.00 Same 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 ¼ sec. cor., marked on brass cap¹⁹¹² S9 in W. and S10 in E. half; dig pits 18 x 18 x 12 ins. N. and S. of post 3 ft. dist., and raise a mound of earth 3½ ft. base 1½ ft. high, W. of cor.
 49.50 Cross wash 75.00s. wide course N. W.
 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 cap¹⁹¹²;
 T17SR16E in N. half;
 S4 in N. W.
 S3 in N. E.
 S10 in S. E. and
 S9 in S. W. quadrant; dig pits 18 x 18 x 12 ins. in each sec. 5½ ft. dist., and raise a mound of earth 4 ft. base 2 ft. high, W. of cor.
 Land, rolling.
 Soil, sandy loam mixed with gravel; dry; 2nd. rate.
 No timber.
 Undergrowth, mesquite, paloverde, catclaw and cactus.

S. 89° 57' W., on a random line, bet. secs. 4 and 9
 40.00 Set temp. ¼ sec. cor.
 79.86 Intersect N. and S. line, 7 lks. S. of the cor. of secs. 4, 5, 8, and 9, ~~heretofore~~ ^{hereinbefore} described,
 Thence I run,
 East, on a true line, bet. secs. 4 and 9,
 Over level land through dense brush.
 0.60 Cross wash 20 lks. wide course N. W.
 21.75 Cross wash 20 lks. wide course N. W.
 39.95 Set an iron post 3 ft. long, 1 in. diam., 26 ins. in the ground for ¼ sec. cor., marked on brass cap¹⁹¹² S4 in N. and S9 in S. half; from which
 A catclaw 5 ins. diam., bears N. 67° E. 129 lks. dist., marked S4BT.
 No other bearings available. 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.
 43.30 Cross wash 100 lks. wide course N. W.
 73.00 Road bears N. and S.
 79.86 The cor. of secs. 3, 4, 9 and 10, ~~heretofore~~ ^{hereinbefore} described.
 Land, level.
 Soil, sandy loam; coarse texture; dry; over 2 ft. deep; 1st. rate.
 No timber.
 Undergrowth; mesquite, paloverde, catclaw, and cactus.

Subdivision of Tp. 17 S. Rg. 16 E.

Chains.	N. 0° 02' E., bet. secs. 3 and 4, on true line, Over rolling land through dense brush.
10.50	Cross wash 35 lks. wide course N. W. and over level 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 cap ¹⁹¹² S4 in W. and S3 in E. half; from which A paloverde 5 ins. diam., bears N. 55° E. 57 lks. dist., marked $\frac{1}{4}$ S3BT A mesquite 4 ins. diam., bears N. 77 $\frac{1}{2}$ ° W. 175 lks. dist., marked $\frac{1}{4}$ S4BT.
53.50	Cross wash 15 lks. wide course N. W.
58.80	Cross wash 100 lks. wide course N. W.
69.89	Intersect N. bdy. of Tp. 6.98 chs. S. 89° 56' E. of the cor. of secs. 33 and 34 T. 16 S. R. 16 E. ^{HEREINAFTER DESCRIBED} and set a granite stone 18 x 6 x 6 ins., 12 ins. in the ground for closing cor. of secs. 3 and 4, marked CC on S. with 3 grooves on E. and W. faces; dig pits 24 x 18 x 12 ins. crosswise on each line E. and W. 3 ft. and S. of stone 7 ft. dist., and raise a mound of earth 4 ft. base 2 ft. high S. of cor. Land, level and rolling. Soil, rich sandy loam, over 2 ft. deep; dry; medium texture; 1st. rate. No timber. Undergrowth, mesquite, catclaw, paloverde and cactus.
NOTE:	At this cor. I set off 7° 28' S. on the decl arc; and observe the sun on the meridian at noon; the resulting latitude is 31° 59' N. October 12, 1912
	September 30 ¹⁹¹² At 7h. 00m. a.m., l.m.t., I set off 31° 53 $\frac{1}{2}$ ' N. on the lat. arc; 2° 45' S. on the decl. arc; and determine a meridian with the solar at the cor. of secs. 2, 3, 34 and 35, on the S. bdy. of the township, which is a stone marked and witnessed as described by the surveyor general Thence I run, N. 0° 02' E., bet. secs. 34 and 35 Along rough, rocky E. slope of mountain through dense brush.
16.75	Cross wash 20 lks. wide course N. E. ascend.
25.25	Ridge bears N. W. and S. E. descend.
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 ¹⁹¹² S4 in W. and S35 in E. half; and raise a mound of stone 2 ft. base 1 $\frac{1}{2}$ ft. high, W. of cor. Pits impracticable.
43.50	Cross wash 75 lks. wide course N. E. ascend.
52.25	Ridge bears N. W. and S. E. descend.
58.00	Cross wash 15 lks. wide course E. ascend.
63.00	Ridge bears E. and W. descend.
66.00	Cross wash 60 lks. wide course S. E. ascend.
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, ¹⁹¹² ; T17SR16E in N. half; S27 in N. W. S26 in N. E. S35 in S. E. and S34 in S. W. quadrant; and raise a mound of stone 2 ft. base 1 $\frac{1}{2}$ ft. high, W. of cor. Pits impracticable. Land, rough and mountainous. Soil, rocky; 4th. rate. No timber. Undergrowth, mesquite, paloverde, catclaw, and cactus.
NOTE:	At this cor. I set off 2° 52' S. on the decl. arc; and observe the sun on the meridian at noon; the resulting lat. is 31° 54 $\frac{1}{2}$ ' N.
40.00	West, on a random line, bet. secs. 27 and 34, Set temp. $\frac{1}{4}$ sec. cor.

Subdivision of Tp. 17 S. Rg. 16 E.

Chains.
79.90 Intersect N. and S. line, 5 lks. S. of the cor. of secs. 27, 28, 33 and 34, ~~hereinbefore~~ described,
Thence I run,
S. 89° 58' E., on a true line, bet. secs. 27 and 34,
Ascending through dense brush.
12.00 Cross drain 10 lks. wide course N.
15.20 Ridge bears N. and S. descend.
18.00 Cross wash 30 lks. wide course N. ascend.
28.50 Ridge bears N. and S. descend.
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 cap ¹⁹¹² S27 In N. and S34 in S. half; and raise a mound of stone 2 ft. base $\frac{1}{2}$ ft. high, N. of cor. Pits impracticable.
49.50 Drain 15 lks. wide course S. E.
57.40 Drain 20 lks. wide course S. E.
62.30 Cross wash 25 lks. wide course S. E. and ascend.
67.80 Drain 10 lks. wide course S. E.
73.50 Ridge bears N. E. and S. W. descend.
79.90 The cor. of secs. 26, 27, 34, and 35, ~~hereinbefore~~ described.
Land, rough and mountainous.
Soil, rocky; 4th. rate.
No timber.
Undergrowth, mesquite, paloverde, catclaw and cactus.

N. 0° 02' W., bet. secs. 26 and 27,
Ascending through dense brush.
1.00 Ridge bears E. and W. descend.
10.80 Cross wash 30 lks. wide course N. E.
14.00 Ridge bears NE. and SW. descend.
19.00 Cross wash 20 lks. wide course N. E. ascend.
26.00 Ridge bears N. E. and S. W. descend.
31.00 Cross wash 20 lks. wide course N. E. ascend.
33.00 Ridge bears E. and W. descend.
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 ¹⁹¹² S27 in W. and S26 in E. half; and raise a mound of stone 2 ft. base $\frac{1}{2}$ ft. high, W. of cor. Pits impracticable.
42.00 Cross wash 20 lks. wide course S. E. ascend.
47.00 Descend.
53.00 Cross wash 20 lks. wide course S. E. ascend.
59.00 Ridge bears E. and W. descend.
69.00 Cross wash 15 lks. wide course N. E. ascend.
79.00 Ridge 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 cap, ¹⁹¹²;
T17SR16E in N. half;
S22 in N. W.
S23 in N. E.
S26 in S. E. and
S27 in S. W. quadrant; and raise a mound of stone 2 ft. base $\frac{1}{2}$ ft. high, W. of cor. Pits impracticable.
Land, mountainous.
Soil, rocky; 4th. rate.
No timber.
Undergrowth, mesquite, paloverde, catclaw, and cactus.

September 30; 1912.

October 3¹⁹¹² At 7h. 00m. a.m., l.m.t., I set off 31° 55 $\frac{1}{2}$ ' N. on the lat. arc; 3° 54 $\frac{1}{2}$ ' S. on the decl. arc; and determine a meridian with the solar at the cor. of secs. 22, 23, 26 and 27, ~~above~~ described;
Thence I run,
N. 89° 58' W., on a random line, bet. secs. 22 and 27
40.00 Set temp. $\frac{1}{4}$ sec. cor.
79.86 Intersect N. and S. line, 9 lks. N. of the cor. of secs. 21, 22, 27, and 28, ~~hereinbefore~~ described,
Thence I run, N. W.

Subdivision of Tp. 17 S. Rg. 16 E.

Chains.

N. 89° 58' E., on a true line, bet. secs. 22 and 27,
 Descending through dense brush.
 17.50 Cross wash 40 lks. wide course N. ascend.
 19.70 Cross road bears N. and S.
 32.50 Ridge bears N. and S.
 38.50 Cross drain 15 lks. wide course N.
 39.93 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 ¹⁹¹² S22 in
 N. and S27 in S. half; and raise a mound of stone 2 ft.
 base $1\frac{1}{2}$ ft. high, N. of cor. Pits impracticable.
 40.50 Cross wash 40 lks. wide course N.
 50.00 Cross wash 20 lks. wide course N.
 58.00 Ridge bears N. and S.
 64.00 Cross wash 15 lks. wide course N. E.
 79.86 The cor. of secs. 22, 23, 26 and 27, hereinafore described.
 Land, mountainous.
 Soil, rocky; 4th. rate.
 No timber.
 Undergrowth, mesquite, paloverde, catclaw and cactus.

N. 6° 02' E., bet. secs. 22 and 23,
 Descending through dense brush.
 12.00 Over rolling land.
 25.80 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 ¹⁹¹² S22 in
 W and S23 in E. half; and raise a mound of stone 2 ft.
 base $1\frac{1}{2}$ ft. high, W. of cor. Pits impracticable.
 62.50 Cross wash 25 lks. wide course N. W.
 80.00 Set an iron post 3 ft. long, 2 in. diam., 26 ins. in
 the ground for cor. of secs. 14, 15, 22 and 23, marked
 on brass cap, ¹⁹¹²;
 T17SR16E in N. half;
 S15 in N. W.
 S14 in N. E.
 S23 in S. E. and
 S22 in S. W. quadrant; and raise a mound of stone 2 ft.
 base $1\frac{1}{2}$ ft. high, W. of cor. Pits impracticable.
 Land, mountainous and rolling.
 Soil, rocky; 4th. rate.
 No timber.
 Undergrowth, mesquite, catclaw, paloverde and cactus.

NOTE:

At this cor. I set off 4° 01 $\frac{1}{2}$ ' S. on the
 decl. arc; and observe the sun on the meridian at noon;
 the resulting latitude is 31° 56 $\frac{1}{2}$ ' N.

S. 89° 58' W., on a random line, bet. secs. 15 and 22
 40.00 Set temp. $\frac{1}{4}$ sec. cor.,
 79.80 Intersect N. and S. line, 7 lks. N. of the cor. of secs.
 15, 16, 21 and 22, hereinafore described,
 Thence I run,
 N. 89° 55' E., on a true line, bet. secs. 15 and 22
 Over rolling land, through dense brush.
 18.20 Cross wash 10 lks. wide course N. E.
 24.30 Cross wash 40 lks. wide course N.
 26.25 Cross wash 30 lks. wide course N.
 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 ¹⁹¹² S15 in
 N. and S22 in S. half; and raise a mound of stone 2 ft.
 base $1\frac{1}{2}$ ft. high, N. of cor. Pits impracticable.
 42.00 Cross wash 10 lks. wide course N. W.
 54.20 Cross wash 40 lks. wide course N. W.
 60.10 Cross wash 75 lks. wide course N. W.
 79.80 The cor. of secs. 14, 15, 22 and 23, hereinafore described.
 Land, rolling hills.
 Soil, rocky; 4th. rate.
 No timber.
 Undergrowth, mesquite, catclaw, paloverde and cactus.

Subdivision of Tp. 17 S. Rg. 16 E.

Chains. N. 0° 02' E. bet. secs. 14 and 15
 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 ¹⁹²¹ S15 in W.
 and S14 in E. half; from which
 A mesquite 4 ins. diam., bears S. 83 $\frac{1}{4}$ ° E. 42
 lks. dist., marked $\frac{1}{4}$ S14BT
 A mesquite 5 ins. diam., bears N. 62° W. 173
 lks. dist., marked $\frac{1}{4}$ S15BT.
 42.50 Cross wash 60 lks. wide course N. W.
 78.25 Cross wash 30 lks. wide course N. W.
 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, ¹⁹¹²;
 T17SR16E in N. half;
 S10 in N. W.
 S11 in N. E.
 S14 in S. E. and
 S15 in S. W. quadrant; from which
 A mesquite 8 ins. diam., bears N. 55 $\frac{1}{4}$ ° W. 45
 lks. dist., marked T17SR16ES10BT.
 A mesquite 6 ins. diam., bears N. 60 $\frac{1}{4}$ ° E. 92
 lks. dist., marked T17SR16ES11BT.
 A mesquite 4 ins. diam., bears S. 47 $\frac{1}{2}$ ° E. 47
 lks. dist., marked T17SR16ES14BT.
 No other bearing available. Raise a mound of stone 2 ft.
 base $\frac{1}{2}$ ft. high, W. of cor. Pits impracticable.
 Land, rolling.
 Soil, rocky; 4th. rate.
 No timber.
 Undergrowth, mesquite, paloverde, catclaw, and cactus.

 40.00 S. 89° 55' W., on a random line, bet. secs. 10 and 15
 Set temp. $\frac{1}{4}$ sec. cor.
 79.76 Intersect N. and S. line, 21 lks. S. of the cor. of secs.
 9, 10, 15 and 16, heretofore described,
 Thence I run
 S. 89° 56' E., on a true line, bet. secs. 10 and 15
 Over rolling land, through dense brush.
 6.00 Cross wash 20 lks. wide course N. W.
 17.50 Cross wash 50 lks. wide course N. W.
 32.00 Cross wash 40 lks. wide course N. W.
 39.88 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 ¹⁹²¹ S10 in N.
 and S15 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 $\frac{1}{2}$ ft. high, N. of cor.
 65.75 Cross wash 25 lks. wide course N. W.
 78.20 Cross wash 30 lks. wide course N. W.
 79.76 The cor. of secs. 10, 11, 14 and 15, heretofore described.
 Land, rolling,
 Soil, sandy loam; mixed with rocks and gravel; 3rd. rate.
 No timber.
 Undergrowth, mesquite, paloverde, catclaw and cactus.

October 3, 1912.

 October 12: 1912;
 N. 0° 02' E., bet. secs. 10 and 11,
 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 ¹⁹²¹ S10 in
 W and S11 in E. half; dig pits 18 x 18 x 12 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. ¹⁹¹²;
 77.70 Cross wash 25 lks. wide course N. W.
 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, ¹⁹¹²;

Subdivision of Tp. 17 S. Rg. 16 E.

Chains.

T17SR16E in N. half;

S3 in N. W.

S2 in N. E.

S11 in S. E. and

S10 in S. W. quadrant; from which

A mesquite 4 ins. diam., bears N. 48° W. 214 lks. dist., marked T17SR16ES3BT

A paloverde 4 ins. diam., bears N. $14\frac{1}{4}^{\circ}$ E. 358 lks. dist., marked T17SR16ES2BT.

A mesquite 7 ins. diam., bears S. 52° E. 35 lks. dist., marked T17SR16ES11BT

A mesquite 5 ins. diam., bears S. $33\frac{1}{4}^{\circ}$ W. 245 lks. dist., marked T17SR16ES10BT.

Land, rolling and level.

Soil, sandy loam mixed with rocks and gravel; 3rd. rate.

No timber.

Undergrowth, mesquite, paloverde, catclaw and cactus.

N. $89^{\circ} 56'$ W., on a random line, bet. secs. 3 and 10

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

79.70 Intersect N. and S. line, 14 lks. N. of the cor. of secs. 3, 4, 9 and 10, ~~hereinbefore~~ described,

Thence I run,

N. $89^{\circ} 58'$ E., on a true line, bet. secs. 3 and 10

Over level land, through dense brush.

31.50 Cross wash 20 lks. wide course N.

38.50 Cross wash 20 lks. wide course N.

39.85 Point for $\frac{1}{4}$ sec. cor. falls in wash 50 lks. wide course N. so at

40.80 Set an iron post 3 ft. long, 1 in. diam., 26 ins. in the ground for witness cor. to $\frac{1}{4}$ sec. cor. marked on brass cap 192° WC $\frac{1}{4}$ in E. half; S3 in N. W. and S10 in S. W. quadrant; from which

A catclaw 5 ins. diam., bears N. $8\frac{3}{4}^{\circ}$ W. 142 lks. dist., marked WC $\frac{1}{4}$ S3BT

A catclaw 4 ins. diam., bears S. $6\frac{1}{2}^{\circ}$ E. 35 lks. dist., marked WC $\frac{1}{4}$ S10BT.

58.50 Cross wash 40 lks. wide course N. E.

79.00 Cross wash 25 lks. wide course N. W.

79.70 The cor. of secs. 3, 3, 10 and 11, ~~hereinbefore~~ described,

Land, level.

Soil, sandy loam mixed with gravel; 2nd. rate.

No timber.

Undergrowth, mesquite, catclaw, paloverde and cactus.

N. $0^{\circ} 02'$ E., bet. secs. 2 and 3, on true line,

Over rolling land through dense brush.

4.40 Cross wash 100 lks. wide course N. W. ascend.

19.05 Road bears N. W. and S. E. on ridge, descend.

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 $82\frac{1}{2}^{\circ}$ S3 in W. and S2 in E. half; dig pits 18 x 18 x 12 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.

46.20 → Wash, 20 lks. wide course N. W. ascend. 6.80 chs. S. $89^{\circ} 53'$ E. of the

69.81 Intersect N. bdy. of Tp. 16 S. Rg. 16 E. ~~hereinbefore~~ described

cor. of secs. 34 and 35, Tp. 16 S. Rg. 16 E. and set a Quartzite stone 20 x 8 x 6 ins. 15 ins. in the ground for closing cor. of secs. 2 and 3, marked CC on S., with 2 grooves on E. and 4 grooves on W. faces; and raise a mound of stone 2 ft. base $1\frac{1}{2}$ ft. high, S. of cor. Pits impracticable.

Land, rolling.

Soil, sandy loam mixed with rocks and gravel; 3rd. rate.

No timber.

Undergrowth, mesquite, catclaw, paloverde and cactus.

October 12, 1912.

Subdivision of Tr. 17 S. Rg. 16 E.

Chains

October 1¹⁹¹² At 7h. 00m. a.m., l.m.t., I set off 31° 53½' N. on the lat. arc; 3° 08½' S. 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 the township, which is a stone marked and witnessed as described by the surveyor general

Thence I run, N. 0° 03' E., bet. secs. 35 and 36, Over rolling hills through dense brush. 20.25 Cross wash 30 lks. wide course N. E. 35.10 Cross wash 30 lks. wide course N. E. 39.65 Cross wash 30 lks. wide course S. 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 cap¹⁹¹² S35 in W. and S36 in E. half; from which A mesquite 8 ins. diam., bears N. 66¼° E. 59 lks. dist., marked S36BT A mesquite 6 ins. diam., bears N. 51¼° W. 30 lks. dist., marked S35BT. 54.00 Cross wash 20 lks. wide course S. E. 76.25 Cross wash 15 lks. wide course S. E. 80.00 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 cap¹⁹¹²; T17SR16E in N. half; S26 in N. W. S25 in N. E. S36 in S. E. and S35 in S. W. quadrant; and raise a mound of stone 2 ft. base 1½ ft. high, W. of cor. Pits impracticable. Land, rolling and hilly. Soil, rocky; 4th. rate. No timber. Undergrowth, mesquite, catclaw, paloverde and cactus.

West, on a random line, bet. secs. 26 and 35 40.00 Set temp. ¼ sec. cor. 79.98 Intersect N. and S. line, 7 lks. N. of the cor. of secs. 26, 27, 34 and 35, heretofore described, Thence I run, N. 89° 57' E., on a true line, bet. secs. 26 and 35, Descending through dense brush. 25.00 Cross wash 50 lks. wide course N. ascend. 35.00 Ridge bears N. W. and S. E. descend. 39.00 Cross drain 7 lks. wide course N. E. 39.99 Set an iron post 3 ft. long, 1 in. diam., 26 ins. in the ground for ¼ sec. cor., marked on brass cap¹⁹¹² S26 in N. and S35 in S. half; and raise a mound of stone 2 ft. base 1½ ft. high, N. of cor. Pits impracticable. 47.00 Cross drain 10 lks. wide course N. E. 51.00 Cross wash 30 lks. wide course N. W. ascend. 57.10 Cross drain 7 lks. wide course N. W. 68.00 Ridge bears N. W. and S. E. descend. 79.98 The cor. of secs. 25, 26, 35 and 36, heretofore described. Land, mountainous. Soil, rocky; 4th. rate. No timber. Undergrowth, mesquite, catclaw, paloverde and cactus.

East, bet. secs. 25 and 36, on true line, Descending through dense brush. 10.50 Cross drain 10 lks. wide course S. E. 15.20 Cross drain 7 lks. wide course S. E. ascend. 29.00 Ridge bears N. W. and S. E. descend. 40.00 Set an iron post 3 ft. long, 1 in. diam., 26 ins. in the ground for ¼ sec. cor., marked on brass cap¹⁹¹² S25 in N. and S36 in S. half; and raise a mound of stone 2 ft. base 1½ ft. high, N. of cor. Pits impracticable.

Subdivision of Tp. 17 S. Rg. 16 E.

Chains.	
44.50	Cross wash 20 lks. wide course S. E.
58.50	Cross wash 30 lks. wide course S. E.
65.30	Cross road bears N. and S.
73.26	Intersect E. bdy. of Tp. 4.97 chs. N. $0^{\circ} 01'$ W. of the cor. of secs. 30 and 31, Tp. 17 S. Rg. 17 E. ^{HEREINAFTER DESCRIBED} and set a granite stone 18 x 8 x 6 ins. 12 ins. in the ground for closing cor. of secs. 25 and 36, marked CC on W. with 1 groove on S. and 5 grooves on N. faces; from which A mesquite 12 ins. diam., bears N. $60\frac{1}{4}^{\circ}$ W. 159 lks. dist., marked CCT17SR16ES25BT A mesquite 6 ins. diam., bears S. $73\frac{1}{2}^{\circ}$ W. 308 lks. dist., marked CCT17SR16ES36BT.
	Land, mountainous. Soil, rocky; 4th. rate. No timber. Undergrowth, mesquite, catclaw, paloverde and cactus.
NOTE:	Clouds obscured the sun at noon and prevented an observation for latitude.
	October 1, 1912.

	October 10 ¹⁹¹² At 7h. 00m. a.m., l.m.t., I set off $31^{\circ} 54\frac{1}{2}'$ N. on the lat. arc; $6^{\circ} 35'$ S. on the decl. arc; and determine a meridian with the solar at the cor. of secs. 25, 26, 35 and 36, ^{hereinbefore described} , Thence I run, N. $0^{\circ} 03'$ E., bet. secs. 25 and 26, Ascending through dense brush
9.10	Cross drain 15 lks. wide course S. E.
15.00	Ridge bears E. and W. descend.
23.00	Cross wash 10 lks. wide course N. E.
36.10	Cross same wash course N. W.
38.20	Cross same wash course N. E. and along rolling N. E. slope of mountain descending.
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 ¹⁹¹² S26 in W. and S25 in E. half; and raise a mound of stone 2 ft. base $1\frac{1}{2}$ ft. high, W. of cor. Pits impracticable.
43.00	Cross wash 20 lks. wide course N. E.
56.00	Cross 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. 23, 24, 25 and 26, marked on brass cap, ¹⁹¹² ; T17SR16E in N. half; S23 in N. W. S24 in N. E. S25 in S. E. and S26 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, mountainous. Soil, rocky; 4th. rate. No timber. Undergrowth, mesquite, catclaw, paloverde, and cactus.

	S. $89^{\circ} 57'$ W., on a random line, bet. secs. 23 and 26
40.00	Set temp. $\frac{1}{4}$ sec. cor.
79.94	Intersect N. and S. line, 26 lks. S. of the cor. of secs. 22, 23, 26 and 27, ^{hereinbefore described} . Thence I run, S. $89^{\circ} 52'$ E., on a true line, bet. secs. 23 and 26 Descending through dense brush
26.80	Cross wash 100 lks. wide course N. W.
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 ¹⁹¹² S23 in N. and S26 in S. half; and raise a mound of stone 2 ft. base $1\frac{1}{2}$ ft. high, N. of cor. Pits impracticable.
45.85	Cross wash 20 lks. wide course N. ascend.
54.00	Ridge bears N. and S. descend.

BOOK 2002

Subdivision of Tp. 17 S. Rg. 16 E.

Chains.

78.00 Cross wash 30 lks. wide course N. E.
 79.94 The cor. of secs. 23, 24, 25 and 26. heretofore described
 Land, mountainous.
 Soil, rocky; 4th. aret.
 No timber.
 Undergrowth, mesquite, paloverde, catclaw and cactus.
 NOTE: At this cor. I set off 6° 42½' S. on the decl.
 arc; and observe the sun on the meridian at noon; the
 resulting lat. is 31° 55½' N.

East, bet. secs. 24 and 25, on true line,
 Over rolling land through dense brush.
 19.50 Cross wash 40 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 cap¹⁹¹² S24 in N.
 and S25 in S. half; and raise a mound of stone 2 ft. base
 1½ ft. high, N. of cor. Pits impracticable.
 47.70 Cross wash 30 lks. wide course N. E.
 73.40 Intersect E. bdy. of township 5.59 chs. N. 0° 08' E. of
 the cor. of secs. 19 and 30, T. 17 S. R17 E. ^{HEREINAFTER DESCRIBED} and set a
 limestone 18 x 8 x 8 ins. 12 ins. in the ground for
 closing cor. of secs. 24 and 25, marked CC on W. with 2
 grooves on S. and 4 grooves on N. faces; and 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, mesquite, catclaw, paloverde and cactus.

N. 0° 03' E., bet. secs. 23 and 24,
 Over rolling land, through dense brush
 1.95 Cross wash 30 lks. wide course N. E.
 11.75 Cross wash 20 lks. wide course N. E.
 19.55 Cross wash 15 lks. wide course N. E.
 32.10 Cross wash 30 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 cap¹⁹¹² S23 in W.
 and S24 in E. half; and raise a mound of stone 2 ft. base
 1½ ft. high, W. of cor. Pits impracticable.
 54.00 Cross wash 50 lks. wide course N. E.
 61.55 Cross same wash course N. W.
 71.25 Road bears N. E. and S. W.
 77.00 Cross same wash noted above course N. E.
 80.00 Set an iron post 3 ft. long, 3 ins. diam., 24 ins. in the
 ground for cor. of secs. 13, 14, 23 and 24, marked on
 brass cap, 1912;
 T17SR16E in N. half;
 S14 in N. W.
 S13 in N. E.
 S24 in S. E. and
 S23 in S. W. quadrant; from which
 A mesquite 8 ins. diam., bears S. 51½° E. 62
 lks. dist., marked T17SR16ES24BT.
 No other bearings available. Dig pits 18 x 18 x 12 ins.
 in each sec. 5½ ft. dist., and raise a mound of earth 4
 ft. base 2 ft. high W. of cor.
 Land, rolling.
 Soil, sandy loam mixed with gravel and rocks; 3rd. rate.
 No timber.
 Undergrowth, mesquite, paloverde, cactus, catclaw.

October 10, 1912.

October 11¹⁹¹² At 7h. 00m. a.m., l.m.t., I set off 31° 56½'
 N. on the lat. arc; 6° 58' S. on the decl. arc; and

Subdivision of Tr. 17 S. Rg. 16 E.

Chains.	
	determine a meridian with the solar at the cor. of secs. 13, 14, 23 and 24; ^{above described,} Thence I run, N. 89° 52' W., on a random line, bet. secs. 14 and 23
40.00	Set temp. $\frac{1}{4}$ sec. cor.
79.90	Intersect N. and S. line, at the cor. of secs. 14, 15, 22 and 23, hereinbefore described, Thence I run, S. 89° 52' E., on a true line, bet. secs. 14 and 23
2.80	Over rolling land, through dense brush
23.00	Cross wash 70 lks. wide course N.
39.95	Cross wash 100 lks. wide course N, 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 ¹⁹²¹ S14 in N. and S23 in S. half; from which A mesquite 6 ins. diam., bears N. 26 $\frac{1}{4}$ ° W. 163 lks. dist., marked $\frac{1}{4}$ S14BT A mesquite 8 ins. diam., bears S 23 $\frac{1}{4}$ ° E. 321 lks. dist., marked $\frac{1}{4}$ S23BT
79.90	The cor. of secs. 13, 14, 23 and 24, hereinbefore described, Land, rolling. Soil, sandy loam, mixed with rocks and gravel; 3rd. rate. No timber. Undergrowth, mesquite, paloverde, catclaw and cactus.

	East, bet. secs. 13 and 24, on true line, Over rolling land, through dense brush.
4.10	Cross wash 50 lks. wide course N. E.
26.40	Cross wash 30 lks. wide course N. E.
35.00	Cross wash 20 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 ¹⁹²¹ S13 in N. and S24 in S. half; and raise a mound of stone 2 ft. base $\frac{1}{2}$ ft. high, N. of cor. Pits impracticable.
45.50	Cross wash 75 lks. wide course N. W.
56.20	Cross wash 30 lks. wide course N. W. and ascend.
71.00	Ridge bears N. and S. descend.
73.47	Intersect E. bdy. of township, 7.20 chs. N. 0° 04' W. of ^{HEREINAFTER DESCRIBED} the cor. of secs. 18 and 19 T. 17 S. R. 17 E. and set a granite stone 18 x 8 x 8 ins. 12 ins. in the ground for closing cor. of secs. 13 and 24, marked CC on W. with 3 grooves on N. and S. faces; and raise a mound of stone 2 ft. base $\frac{1}{2}$ ft. high, W. of cor. Pits impracticable. Land, rolling and mountainous. Soil, rocky; 4th. rate. No timber. Undergrowth, mesquite, paloverde, catclaw and cactus.
NOTE:	At this cor. I set off 7° 05 $\frac{1}{2}$ ' S. on the decl. arc; and observe the sun on the meridian at noon; the resulting lat. is 31° 56 $\frac{1}{2}$ ' N.

	N. 0° 03' E., bet. secs. 13 and 14, Over rolling land, through dense brush.
18.60	Cross wash 15 lks. wide course N. E.
26.00	Cross wash 20 lks. wide course N. E.
33.40	Cross wash 10 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 ¹⁹²¹ S14 in W. and S13 in E. half; from which A mesquite 8 ins. diam., bears N. 72 $\frac{1}{4}$ ° E. 9 lks. dist., marked $\frac{1}{4}$ S13BT A mesquite 12 ins. diam., bears S. 17 $\frac{1}{2}$ ° W. 64 lks. dist., marked $\frac{1}{4}$ S14BT
65.00	Cross wash 30 lks. wide course N. E.
74.30	Wash 100 lks. wide course N. bears S. E. and along same to
79.80	Leave wash course N. W.
80.00	Set an iron post 3 ft. long, 2 ins. diam., 24 ins. in the

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Subdivision of Tp. 17 S. Rg. 16 E.

Chains.

ground for cor. of secs. 11, 12, 13 and 14, marked on brass cap, 1912;

T17SR16E in N. half;

S11 in N. W.

S12 in N. E.

S13 in S. E. and

S14 in S. W. quadrant; from which

A mesquite 9 ins. diam., bears N. 62° W. 11 lks. dist., marked T17SR16ES11BT

A mesquite 8 ins. diam., bears N. 73½° E. 93 lks. dist., marked T17SR16ES12BT

A mesquite 6 ins. diam., bears S. 44½° E. 59 lks. dist., marked T17SR16ES13BT

A mesquite 8 ins. diam., bears S. 41° W. 132 lks. dist., marked T17SR16ES14BT

Land, rolling.

Soil, sandy loam, mixed with rocks and gravel; 3rd. rate.

No timber.

Undergrowth, mesquite, catclaw; paloverde and cactus.

N. 89° 52' W., on a random line, bet. secs. 11 and 14

40.00 Set temp. ¼ sec. cor.

79.96 Intersect N. and S. line, 5 lks. N. of the cor. of secs. 10, 11, 14 and 15, hereinbefore described,

Thence I run

S. 89° 54' E., on a true line, bet. secs. 11 and 14

Over rolling land, through dense brush.

1.20 Cross wash 75 lks. wide course N. W.

31.40 Cross wash 40 lks. wide course N.

39.98 Set an iron post 3 ft. long, 1 in. diam., 26 ins. in the ground for ¼ sec. cor., marked on brass cap S11 in N. and S. 14 in S. half; dig pits 18 x 18 x 12 ins. E. and W. of post 3 ft. dist., and raise a mound of searth 3½ ft. base 1½ ft. high, N. of cor.

41.75 Cross wash 30 lks. wide course N. E.

54.50 Cross wash 20 lks. wide course N. E.

57.75 Cross wash 40 lks. wide course N. W.

73.00 Cross wash 20 lks. wide course N. W.

79.96 The cor. of secs. 11, 12, 13 and 14, hereinbefore described.

Land, rolling.

Soil, sandy loam, mixed with rocks and gravel; 3rd. rate.

No timber.

Undergrowth, mesquite, paloverde, catclaw and cactus.

East, bet. secs. 12 and 13, on true line,

Ascend through dense brush.

18.50 Ridge bears N. and S. descend.

28.10 Road bears N. W. and S. E.

28.50 Cross wash 40 lks. wide course N. W.

34.50 Ridge bears N. W. and S. E. descend.

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 S12 in N. and S13 in S. half; and raise a mound of stone 3 ft. base 1½ ft. high, N. of cor. Pits impracticable.

41.00 Cross wash 25 lks. wide course N. W. ascend.

47.30 Ridge bears N. and S.

52.03 Cross road bears N. and S.

73.60 Intersect E. bdy. of township 8.20 chs. N. 0° 08' W. of the cor. of secs. 7 and 18, T. 17 S. R. 17 E. and set a granite stone 18 x 10 x 10 ins. 12 ins. in the ground for closing cor. of secs. 12 and 13, marked CC on W. with 4 grooves on S. and 2 grooves on N. faces; and raise a mound of stone 3 ft. base 1½ ft. high, W. of cor. Pits impracticable.

Land, hilly.

Soil, rocky; 4th. rate.

No timber.

Undergrowth, mesquite, paloverde, catclaw and cactus.

October 11, 1912.

Subdivision of Tp. 17 S. Rg. 16 E.

Chains.

- October 13¹⁹¹² At 7h. 30m. a.m., l.m.t., I set off 31° 57' N. on the lat. arc; 75° 45' S. on the decl. arc; and determine a meridian at the cor. of secs. 11, 12, 13 and 14 with the solar
- Thence I run,
N. 0° 03' E., bet. secs. 11 and 12,
Ascending through dense brush
- 28.30 Road bears N. W. and S. E.
35.00 Ridge bears N. E. and S. W., descend.
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 cap⁹² S11 in W. and S12 in E. half; and raise a mound of stone 2 ft. base $1\frac{1}{2}$ ft. high, W. of cor. Pits impracticable., ascend.
- 45.00 Ridge bears N. E. and S. W. descend.
58.15 Cross wash 60 lks. wide course N. W. ascend.
79.00 Ridge 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. 1, 2, 11 and 12 marked on brass cap⁹¹²;
T17SR16E in N. half;
S2 in N. W.
S1 in N. E.
S12 in S. E. and
S11 in S. W. quadrant; and raise a mound of stone 2 ft. base $1\frac{1}{2}$ ft. high, W. of cor. Pits impracticable.
Land, hilly;
Soil, sandy loam mixed with rocks and gravel; 3rd. rate.
No timber.
Undergrowth, mesquite, catclaw, paloverde and cactus.
-
- N. 89° 54' W., on a random line, bet. secs. 2 and 11
40.00 Set temp. $\frac{1}{4}$ sec. cor.
79.88 Intersect N. and S. line, 5 lks. N. of the cor. of secs. 2, 3, 10 and 11, ~~hereinbefore described~~,
Thence I run
S. 89° 56' E., on a true line, bet. secs. 2 and 11
Over rolling land through dense brush.
- 5.25 Cross wash 100 lks. wide course N. W. ascend.
15.95 Cross road bears N. W. and S. E., on ridge bears N. W. and S. E. descend.
21.50 Cross wash 15 lks. wide course N. W. ascend.
30.00 Ridge bears N. W. and S. E. descend.
39.94 Set an iron post 3 ft. long, 1 in. diam., 26 ins. in the ground for $\frac{1}{4}$ sec. cor., marked on brass cap⁹² S2 in N. and S11 in S. half; and raise a mound of stone 2 ft. base $1\frac{1}{2}$ ft. high, N. of cor. Pits impracticable.
- 40.20 Cross wash 10 lks. wide course N. W.
60.00 Cross wash 60 lks. wide course N. W. ascend.
78.50 Ridge bears N. W. and S. E.
79.88 The cor. of secs. 1, 2, 11 and 12, ~~hereinbefore described~~.
Land, rolling and hilly;
Soil, sandy loam mixed with rocks and gravel; 3rd. rate.
No timber.
Undergrowth, mesquite, catclaw, paloverde and cactus.
-
- East, bet. secs. 1 and 12, on true line,
Descend through dense brush.
- 1.70 Cross wash 20 lks. wide course N. W. ascend
18.95 Cross road bears N. W. and S. E. on ridge bears N. W. and S. E. descend.
24.50 Cross wash 10 lks. wide course N. W. ascend.
26.50 Ridge bears N. W. and S. E. descend.
32.70 Cross wash 25 lks. wide course N. W. ascend.
38.25 Ridge bears N. W. and S. E. descend.
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 cap⁹² S1 in N. and S12 in S. half; and raise a mound of stone 2 ft. base $1\frac{1}{2}$ ft. high, N. of cor. Pits impracticable.

BOOK 2652

Subdivision of Tp. 17 S. Rg. 16 E.

Chains.
54.75
62.50
73.46

Gross wash 40 lks. wide course N. W. ascend.
Ridge bears N. W. and S. E. descend.
Intersect E. bdy. of township 9.30 chs. N. 0° 15' E. of
the cor. of secs. 6 and 7, T. 17 S. R. 17 E. ^{HEREINAFTER DESCRIBED} and set a
quartz stone 18 x 10 x 8 ins. 12 ins. in the ground for
closing cor. of secs. 1 and 12 marked CC on W. with 5
grooves on S. and 1 groove on N. faces; dig pits 24 x 18
x 12 ins. crosswise on each line N. and S. of stone 3 ft.
and W. of stone 7 ft. dist., and raise a mound of earth
4 ft. base 3 ft. high, W. of cor.
Land, hilly.
Soil, sandy loam, mixed with rocks and gravel; 3rd. rate.
No timber.

NOTE: At this cor. I set off 7° 50 1/2' S. on the decl.
arc; and observe the sun on the meridian at noon; the
resulting lat. is 31° 58' N.

1.76
17.40
22.60
27.97

37.60
40.00

50.50
69.84

N. 0° 03' E., bet. secs. 1 and 2, on true line,
Over rolling hills descending through dense brush.
Cross wash 30 lks. wide course N. W. ascend.
Ridge bears N. W. and S. E. descend.
Cross wash 15 lks. wide course N. W. ascend.
Road bears N. W. and S. E. on ridge bears N. W. and S. E.
descend.
Cross wash 30 lks. wide course N. W. ascend.
Set an iron post 3 ft. long, 1 in. diam., 26 ins. in the
ground for 1/4 sec. cor., marked on brass cap ¹⁹²¹ S2 in W.
and S1 in E. half; and raise a mound of stone 3 ft. base
1 1/2 ft. high, W. of cor. Pits impracticable.
Ridge bears N. W. and S. E. descend.
Intersect N. bdy. of Township 6.48 chs. S. 89° 50' E. of
the cor. of secs. 35 and 36 T. 16 S. R. 16 E. ^{HEREINAFTER DESCRIBED} and set a
granite stone 18 x 10 x 4 ins. 12 ins. in the ground for
closing cor. of secs. 1 and 2, marked CC on S. with 1
groove on E. and 5 grooves on W. faces; dig pits 24 x 18
x 12 ins. Crosswise on each line E. and W. 3 ft. and S.
of stone 7 ft. dist., and raise a mound of earth 4 ft.
base 2 ft. high, S. of cor.
Land, hilly.
Soil, sandy loam, mixed with rocks and gravel; 3rd. rate.
No timber.
Undergrowth, mesquite, catclaw, paloverde and cactus.

October 13, 1912.

GENERAL DESCRIPTION.

The southern part of this township is mountainous and
rough, lying on the north end of the Santa Rita Mountains.
the northeastern part is hilly and the northwestern part
level and rolling. The soil is generally rocky except in
the north west secs. in which the soil is a rich sandy
loam but valueless on account of the absence of water.
There is no water in the township and no timber.
The Cuprite Mine is located in sec. 28, at present idle,
and copper ore has also been found in sec. 27.
There is one settler in sec. 29 and one in sec. 30.

John P. Hesse
U. S. Surveyor

Resurvey of the West bdy. of Tp 17 S. Rg. 17 E.

Chains. October 6, 1913: At 7h. 00m., a.m., l.m.t., I set off 31° 55½' N. on the lat. arc; 5° 04' S. on the decl. arc; and determine a meridian with the solar at the cor. of Tps. 17 and 18 S. Rg. 17 E. which is a stone marked and witnessed as described by the surveyor general.

Thence I run North on a random line bet. secs. 31 and 36

4.18 Intersect Closing Corner of Tps. 17 and 18 S. Rgs. 16 E. heretofore described.

39.79 Intersect old ¼ sec. cor. a stone poorly marked set in small mound of stone. True course & dist. of this ½ mile is therefore North, 39.79 chs.

Thence from ¼ sec. cor., run N. on random line,

40.00 Make diligent search but am unable to find any trace of the old cor. of secs. 25, 30, 31 and 36, set temp. sec. cor. and continue random line North

80.00 Make diligent search but am unable to find any trace of the old ¼ sec. cor., bet secs. 25 and 30, set temp. ¼ sec. cor. & continue random line, North

118.71 Fall 4 lks. E. of point from which the old bearing tree which witnessed the cor. of secs. 19, 24, 25 and 30, bears N. 38½° W. 80 lks. dist. I reestablish the position of this cor. from the bearing tree and set temp. cor. True course & dist. of line from old ¼ sec. cor. bet. secs. 31 & 36 is therefore N. 0° 17' 118.71 chs.

Thence from temp. cor. of secs. 19, 24, 25 & 30, I run, North, on random line, bet. secs. 19 & 24,

40.00 Make diligent search but am unable to find any trace of the old ¼ sec. cor., set temp. ¼ sec. cor. and continue random line North,

78.54 Fall 18 lks. W. of old cor. of secs. 13, 18, 19 and 24 a stone marked with 3 grooves on N. and S. faces in a small mound of stone, True course & dist. of this mile is therefore N. 0° 8' E., 78.54 chs.

Thence I run, from cor. of secs. 13, 18, 19 and 24, North, on random line, bet. secs. 13 & 18,

39.55 Fall 5 lks. E. of the remains of a mound of earth and stone. I set temp. ¼ sec. cor. True course & dist. of this ½ mile is therefore N. 0° 4' W., 39.55 chs.

Thence I run from temp. ¼ sec. cor. North on random line.

39.52 Fall 13 lks. west of remains of a mound of earth and stones. I set temp. cor. of secs. 7, 12, 13 and 18, the true course & distance of this ½ mile is N. 0° 12' E., 39.52 chs., Thence from temp. cor. I run, North, on random line, bet. secs. 7 & 12,

39.53 Fall 9 lks. E. of remains of a mound of earth and stones, I set temp. ¼ sec. cor., True course & dist. of this ½ mile is therefore N. 0° 8' W., 39.53 chs.

Thence, From temp. ¼ sec. cor. I run North, on a random line,

39.61 Fall on remains of a mound of earth and stones. I set temp. cor. of secs. 1, 6, 7 and 12, True course & dist. of this ½ mile is therefore North, 39.61 chs.

Thence from temp. cor. I run North, on random line, bet. secs. 1 & 6,

39.66 Fall 17 lks. W. of the remains of a mound of earth and stones. I set temp. ¼ sec. cor. True course & dist. of this ½ mile is therefore N. 0° 15' E., 39.66 chs.

Thence from temp. ¼ sec. cor. I run North, on random line,

39.30 Fall 6 lks. E. of remains of a mound of earth and stones. Old cor. of Tps. 16 & 17 S., Rs. 16 & 17 E. TRUE COURSE AND DIST. OF THIS ½ MILE IS THEREFORE N. 0° 5' W., 39.30 chs.

NOTE: From the cor. of secs. 13, 18, 19 and 24 to this cor. I am unable to find any cors. that can be identified beyond all doubt as being the point where the original cors. were originally established, but in each instance there is a mound of earth and small stones which seem to have been the original cor. points and were it not for the fact that in each instance the line connecting the cors. is considerably shorter than the distance given in the original field notes, there would be no question in my mind, but in order to satisfy myself that these are the original cor. points I run North from this old Tp. cor. point, on random line, bet. secs. 1 and 36, Tps. 16 S. Rs. 16 & 17 E.

39.63 Fall 7 lks. W. of the old ¼ sec. cor. bet. secs. 1 and 36 a mesquite post 2½ ins. diam, 36 ins. long, marked S on W. face, in a mound of earth and rocks, from which the stump of a mesquite tree 4 ins. diam, bears S. 55° W 160 lks. dist. with old scribe marks still visible. True course and distance of this ½ mile is therefore N. 0° 6' E., 39.63 chs.

As the distance and bearing of this line verifies the positions of the old cors. as found on the random line I decide to re-establish the cors. as found.

NOTE: Clouds prevented an observation for latitude at noon.

October 6, 1913.

Resurvey of the West bdy. of Tp. 17 S. Rg. 17 E.

Chains.	
	<p>October 7¹⁹¹² At 7h. 00m. a.m., l.m.t., I set off $31^{\circ} 53\frac{1}{2}'$ N. on the lat. arc; $5^{\circ} 27'$ S. on the decl. arc; and determine a meridian with the solar at the cor. of Tps. 17 and 18 S. Rg. 17 E. previously described.</p> <p>Thence I run</p> <p>North, on W. bdy. of sec. 31, on true line</p> <p>Descending N. W. slope</p>
4.18	The closing cor. of Tps. 17 and 18 S. Rgs. 16 E. previously described.
18.65	Cross wash 15 lks. wide course N. W.
26.70	Old road bears N. W. and S. E.
39.79	<p>The ^{old} $\frac{1}{4}$ sec. cor. I destroy old cor. and re-establish it in the same place as follows;</p> <p>Set a granite stone 18 x 8 x 6 ins. 12 ins. in the ground for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on W. face; and raise a mound of stone 2 ft. base $1\frac{1}{2}$ ft. high, W. of cor. Pits impracticable.</p> <p>Thence from $\frac{1}{4}$ sec. cor.,</p> <p>N. $0^{\circ} 01'$ W., on true line,</p>
23.85	Cross wash 15 lks. wide course N. E.
27.15	Right bank of Davidson Wash course N. E.
30.80	Left bank of Davidson Wash.
37.15	Frame house bears East 20 lks. dist.
39.57	<p>Set a granite stone 20 x 10 x 6 ins. 15 ins. in the ground for cor. of secs. 30 and 31^{T17S. R17E} marked with 1 notch on S. and 5 notches on N. edges; and raise a mound of stone 2 ft. base $1\frac{1}{2}$ ft. high E. of cor. Pits impracticable.</p> <p>Land, mountainous.</p> <p>Soil, rocky; 4th. rate.</p> <p>No timber.</p> <p>Undergrowth, mesquite, paloverde and cactus.</p> <p>-----</p>
	<p>N. $0^{\circ} 01'$ W., on W. bdy. of sec. 30, on true line,</p> <p>Over rolling land, through dense brush.</p>
6.70	Cross wash 40 lks. wide course S. E.
39.57	<p>Set a granite stone 18 x 6 x 6 ins. 12 ins. in the ground for ^{re-established} $\frac{1}{4}$ sec. cor., marked on W. face $\frac{1}{4}$; and raise a mound of stone 2 ft. base $1\frac{1}{2}$ ft. high, W. of cor. Pits impracticable.</p>
54.00	Cross wash 10 lks. wide course N. W.
64.90	Road bears N. E. and S. W.
77.20	Cross wash 20 lks. wide course N. W.
79.14	<p>The point marking position of old cor. of secs. 25, 30, 32 and 34 as re-established from old bearing tree. I set a limestone 18 x 8 x 8 ins. 12 ins. in the ground for cor. of secs. 19 and 30^{T17S. R17E} marked with 4 notches on N. and 2 notches on S. edges; and raise a mound of stone 2 ft. base $1\frac{1}{2}$ ft. high, E. of cor. Pits impracticable. I destroy old bearing tree.</p> <p>Land, rolling.</p> <p>Soil, rocky; 4th. rate.</p> <p>No timber.</p> <p>Undergrowth, mesquite, paloverde, catclaw and cactus.</p> <p>-----</p>
	<p>N. $0^{\circ} 08'$ E., set on W. bdy. sec. 19, on true line,</p> <p>Over rolling land, through dense brush.</p>
39.27	<p>Set a granite stone 18 x 12 x 6 ins. 12 ins. in the ground for ^{re-established} $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on W. face; and raise a mound of stone 2 ft. base $1\frac{1}{2}$ ft. high, W. of cor. Pits impracticable.</p>
55.35	Ridge bears N. W. and S. E.
61.65	Road bears N. W. and S. E.
66.35	Cross wash 10 lks. wide course W.
78.54	<p>Remains of old cor. of ^{secs. 13, 18, 19, 24} which I destroy and establish cor. of secs. 18 & 19 in the same place as follows;</p> <p>Set a granite stone 20 x 10 x 10 ins. 15 ins. in the ground for cor. of secs. 18 and 19^{T17S. R17E} marked with 3 notches on N. and S. edges; and raise a mound of stone 2 ft. base $1\frac{1}{2}$ ft. high, E. of cor. Pits impracticable.</p>

Resurvey of the west bdy. of Tp. 17 S. Rg. 17 E.

Chains	Land, rolling. Soil, rocky; 4th. rate. No timber. Undergrowth, mesquite, catclaw, paloverde and cactus.

17.50	N. 0° 04' W., on W. bdy. of sec. 18., on true line, Over rolling hilly land, through dense brush.
39.55	Cross road bears N. W. and S. E. The remains of old $\frac{1}{4}$ sec. cor. I destroy all traces of old cor and re-establish it in the same place as follows; Set a Quartzite stone 18 x 12 x 6 ins. 12 ins. in the ground for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on W. face; and raise a mound of stone 2 ft. base $1\frac{1}{2}$ ft. high, W. of cor. Pits impracticable.
	Thence from $\frac{1}{4}$ sec. cor.,
30.15	N. 0° 12' E., on true line, Cross wash 20 lks. wide course N. E.
39.52	The remains of old cor. of secs. 7, 12, 13 and 18, I destroy all traces of the old cor., and establish cor. of secs. 7 & 18 in the same place as follows: Set a malpais stone 18 x 8 x 5 ins. 12 ins. in the ground for cor. of secs. 7 and 18, marked with 2 notches on N. and 4 notches on S. edges and dig pits 24 x 24 x 12 ins. in each sec. 6 ft. dist.; and raise a mound of earth 4 ft. base 2 ft. high, E. of cor.
	Land, hilly. Soil, sandy loam mixed with gravel; 3rd. rate. No timber. Undergrowth, mesquite, catclaw and cactus.

.50	N. 0° 38' W., on W. bdy. of sec. 7, on true line, Over rolling hills through dense brush.
30.20	Cross wash 10 lks. wide course N. E. Cross wash 30 lks. wide course N. E.
39.53	The remains of old $\frac{1}{4}$ sec. cor. I destroy all traces of old cor. and re-establish it in the same place as follows; Set a malpais stone 18 x 10 x 4 ins. 12 ins. in the ground for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on W. face; and raise a mound of stone 2 ft. base $1\frac{1}{2}$ ft. high, W. of cor. Pits impracticable.
	Thence from $\frac{1}{4}$ sec. cor.
13.70	North, on true line, Road bears N. E. and S. W.
39.61	The remains of the old cor. of secs. 1, 6, 7 and 12. I destroy all traces of the old cor. & establish cor. of secs. 6 & 7 in the same place as follows: Set a granite stone 16 x 12 x 8 ins. 11 ins. in the ground for cor. of secs. 6 and 7, marked with 1 notch on N. and 5 notches on S. edges; dig pits 24 x 24 x 12 ins. in each sec. 6 ft. dist., and raise a mound of earth 4 ft. base 2 ft. high, E. of cor.
	Land, hilly. Soil, sandy loam mixed with gravel; 2nd. rate. No timber. Undergrowth, mesquite, catclaw and cactus.

12.50	N. 0° 15' E. on W. bdy. of sec. 6, on true line Over rolling hills through dense brush.
39.66	Cross wash 20 lks. wide course N. W. The remains of the old $\frac{1}{4}$ sec. cor., I destroy all traces of the old cor. and re-establish it in the same place as follows: Set a quartz stone 18 x 8 x 4 ins. 12 ins. in the ground for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on W. face; dig pits 18 x 18 x 12 ins. N. and S. of stone 3 ft. dist., and raise a mound of earth $3\frac{1}{2}$ ft. base $1\frac{1}{2}$ ft. high, W. of cor.

Resurvey of the west bdy. of Tp. 17 S. Rg. 17 E.

Chains.

17.60 Thence from $\frac{1}{4}$ sec. cor., N. $0^{\circ}5'W.$, on true line
 Ridge bears N. W. and S. E.
 39.30 The remains of the old cor. of Tps. 16 and 17 S. Rgs. 16
 and 17 E. I destroy old cor. and re-establish it in the
 same place as follows:
 Set a granite stone 18 x 6 x 4 ins. 12 ins. in the ground
 for cor. of Tps. 16 and 17 S. Rgs. 16 and 17 E., marked
 with 6 notches on each edge; andm which
 A mesquite 5 ins. diam., bears S. $52\frac{1}{2}^{\circ}W.$ 235
 lks. dist., marked T17SR16ES1BT.
 No other bearings available. Raise a mound of stone 2 ft.
 base $1\frac{1}{2}$ ft. high, S. of cor. Pits impracticable.
 Land, hilly.
 Soil, sandy loam mixed with gravel; 2nd. rate.
 No timber.
 Undergrowth, mesquite, catclaw and cactus.

NOTE: Clouds obscured the sun at noon and prevented an
 observation for latitude.

October 7, 1912.

John P. Hesse
 U. S. Surveyor

BOOK 2652
Resurvey of ~~PORTION OF~~ the west boundary of Tp. 16 S. Rg. 17 E.

Chains.

39.63

October 7:
 N. 0° 06' E., bet. secs. 31 and 36, on true line
 Descending along rolling E. slope.
 The old $\frac{1}{4}$ cor. I destroy all traces of the old $\frac{1}{4}$ sec. cor.
 and re-establish it in the same place as follows:
 Set a limestone 18 x 12 x 6 ins. 12 ins. in the ground
 for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on W. face; from which
 A mesquite 3 ins. diam., bears S. 54 $\frac{1}{4}$ ' W. 160
 lks. dist., marked $\frac{1}{4}$ S36BT.
 No other bearing available. Raise mound of stone 2 ft.
 base $\frac{1}{2}$ ft. high, W. of cor. Pits impracticable.
 Land, hilly.
 Soil, sandy loam, mixed with rocks and gravel; 3rd. rate.
 No timber.
 Undergrowth, mesquite, catclaw and acctus.

October 7, 1912.

John P. Heald
 U. S. Surveyor

Resurvey of the South bdy. of Tp. 16 S. Rg. 16 E.

Chains	
	<p>October 8¹⁹¹² At 7h. 00m. a.m., l.m.t., I set off 31° 59' N. on the lat. arc; 58° 50' S. on the decl. arc; and determine a meridian with the solar at the cor. of Tps. 16 and 17 S. Rgs. 16 and 17 E., re-established by me yesterday as ^{herebefore} described</p> <p>Thence I run,</p>
40.00	<p>West, on a random line on S. bdy. of sec. 36,</p> <p>After diligent search I am unable to find any trace of old $\frac{1}{4}$ sec. cor., set temp. $\frac{1}{4}$ sec. cor. and continue random line West</p>
79.90	<p>Fall 23 lks. S. of old cor. a mesquite post in a mound of earth and stones. True course & dist. of this mile is therefore N. 89°-50' W., 79.90 chs.</p>
40.19	<p>From old cor. of secs. 1, 2, 35 and 36, above described, I run, West, on S. bdy. of sec. 35, on random line,</p> <p>Fall on old $\frac{1}{4}$ sec. cor. a limestone poorly set marked $\frac{1}{4}$ on N. face. True course & dist. of this $\frac{1}{2}$ mile is therefore, West, 40.19 chs.</p>
40.00	<p>Make diligent search for ^{old} cor. of secs. 2, 3, 34 and 35 but am unable to find any trace of old cor. Set temp. point and continue random line</p>
79.92	<p>From temp. point for cor. of secs. 2, 3, 34 and 35 I run, West, on S. bdy. of sec. 34</p> <p>Fall 16 lks. S. of old $\frac{1}{4}$ sec. cor. a granite stone marked $\frac{1}{4}$ on N. face. True course & dist. of line from $\frac{1}{4}$ sec. cor. on S. bdy. of sec. 35 is therefore N. 89°-53' W., 79.92 chs., Thence from $\frac{1}{4}$ sec. cor.</p>
40.00	<p>West, on random line,</p> <p>I make diligent search but am unable to find any trace of old cor. of secs. 3, 4, 33 and 34. Set temp. point, and continue random line.</p>
80.12	<p>From temp. point for cor. of secs. 3, 4, 33 and 34 I run, West, on S. bdy. of sec. 33,</p> <p>Fall 9 lks. S. of old $\frac{1}{4}$ sec. cor. the remains of a mound of earth from which a mesquite 4 ins. diam., bears S. 25° E. 180 lks. dist., marked $\frac{1}{4}$ SBT. True course & dist. of line from old $\frac{1}{4}$ sec. cor. on S. bdy. of sec. 34 is therefore N. 89°-56' W., 80.12 chs., Thence from $\frac{1}{4}$ sec. cor. West on random line</p>
40.00	<p>I make diligent search but am unable to find any trace of the old cor. of secs. 4, 5, 32 and 33. Set temp. point and continue random line</p>
80.06	<p>From temp. point for cor. of secs. 4, 5, 32 and 33 I run, West, on S. bdy. of sec. 32,</p> <p>Fall 38 lks. S. of old $\frac{1}{4}$ sec. cor. the remains of a mound of earth with mesquite stake badly rotted. True course & dist. of line from old $\frac{1}{4}$ sec. cor. on S. bdy. of sec. 33 is therefore N. 89°-44' W., 80.06 chs., Thence from $\frac{1}{4}$ sec. cor. West on random line</p>
40.00	<p>I make diligent search but am unable to find any trace of the old cor. of secs. 5, 6, 31 and 32. Set temp. point and continue random line</p>
80.14	<p>From temp. point for cor. of secs. 5, 6, 31 and 32 I run, West, on S. bdy. of sec. 31,</p> <p>Fall 18 lks. S. of old $\frac{1}{4}$ sec. cor. the remains of a mound of earth. True course & dist. of line from old $\frac{1}{4}$ sec. cor. on S. bdy. of sec. 32 is therefore N. 89°-52' W., 80.14 chs. Thence from $\frac{1}{4}$ sec. cor., West, on random line,</p>
38.19	<p>Fall 8 lks. S. of the cor. of Tps. 16, and 17 S. Rgs. 15 and 16 E., a stone originally marked & witnessed to refer to 4 Tps. but recently changed by me to refer to Tps. on the N. only as described in "Book" October 8, 1912. True course & dist. of this $\frac{1}{2}$ mile is therefore N. 89°-52' W., 38.19 chs.</p>
	<p>October 9¹⁹¹² At 7h. 00m. a.m., l.m.t., I set off 31° 59' N. on the lat. arc; 6° 13' S. on the decl. arc; and determine a meridian with the solar at the cor. of Tps. 16 and 17 S. Rgs. 16 and 17 E., re-established by me Oct. 7, 1912 as herebefore described.</p>
	<p>Thence I run,</p> <p>N. 89° 30' W. on S. bdy. of sec. 36, on true line,</p>
4.25	<p>Over rolling hilly land, through dense brush</p> <p>Cross wash 30 lks. wide course N. W.</p>
38.00	<p>Cross wash 30 lks. wide course N.</p>

Resurvey of the south bdy. of Tp. 16 S. Rg. 16 E.

Chains.	
39.95	Set a granite stone 18 x 8 x 6 ins. 12 ins. in the ground for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on N. face; from which A mesquite 6 ins. diam. bears N. $51\frac{1}{2}^{\circ}$ E. 19 lks. dist., marked $\frac{1}{4}$ S36BT A mesquite 4 ins. diam., bears N. 53° W. 81 lks. dist., marked $\frac{1}{4}$ S36BT.
47.00	Cross wash 35 lks. wide course N.
79.90	The old cor. of secs. 1, 2, 35 and 36 which I destroy and in estab. cor. of secs 35 & 36 in the same place as follows; Set a granite stone 18 x 10 x 6 ins. 12 ins. in the ground for cor. of secs. 35 and 36 ^{T. 16 S. R. 16 E.} marked with 1 notch on E. and 5 notches on W. edges; dig pits 24 x 24 x 12 ins. in each sec. 6 ft. dist., and raise a mound of earth 4 ft. base 2 ft. high, N. of cor. Land, hilly; Soil, sandy loam, mixed with rock and gravel; 3rd. rate. No timber. Undergrowth, mesquite, catclaw and cactus.

	West, on S. bdy. of sec. 35, on true line, Over rolling hilly land, through dense brush.
4.10	Cross wash 30 lks. wide course N. W.
8.00	Cross wash 10 lks. wide course N. W.
40.19	The old $\frac{1}{4}$ sec. cor., which I destroy and reestablish in the same place as follows; Set a granite stone 18 x 8 x 8 ins. 12 ins. in the ground for $\frac{1}{4}$ 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 $\frac{1}{4}$ sec. cor., N. $89^{\circ} 53'$ W., on true line,
4.35	Cross wash 15 lks. wide course N.W.
10.35	Cross road bears N. W. and S. E.
18.50	Cross wash 15 lks. wide course N. W.
39.96	Set a granite stone 18 x 8 x 6 ins. 12 ins. in the ground for cor. of secs. 34 and 35 ^{T. 16 S. R. 16 E.} marked with 2 notches on E. and 4 notches on W. edges; dig pits 24 x 24 x 12 ins. in each sec. 6 ft. dist., and raise a mound of earth 4 ft. base 2 ft. high, N. of cor. Land, hilly. Soil, sandy loam mixed with gravel; 3rd. rate. No timber. Undergrowth, mesquite, catclaw and cactus.

	N. $89^{\circ} 53'$ W., on S. bdy. of sec. 34, on true line, Over rolling land, through dense brush.
.50	Cross wash 40 lks. wide course N.
20.40	Cross wash 15 lks. wide course N. W.
39.96	The old $\frac{1}{4}$ sec. cor. which I destroy and re-establish in the same place as follows; Set a granite stone 18 x 8 x 6 ins. 12 ins. in the ground for $\frac{1}{4}$ 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 $\frac{1}{4}$ sec. cor., N. $89^{\circ} 56'$ W., on true line,
26.50	Road bears N. W. and S. E.
40.06	Set a granite stone 18 x 10 x 6 ins. 12 ins. in the ground for cor. of secs. 33 and 34, marked with 3 notches on E. and W. edges; dig pits 24 x 24 x 12 ins. in each sec. $5\frac{1}{2}$ ft. dist., and raise a mound of earth 4 ft. base 2 ft. high, N. of cor. Land, rolling. Soil, sandy loam, mixed with rock and gravel; 2nd. rate. No timber. Undergrowth, mesquite, catclaw and cactus.
NOTE:	At this cor. I set off $6^{\circ} 20'$ S. on the decl. arc; and observe the sun on the meridian at noon; the resulting lat. is $31^{\circ} 59'$ N.

Resurvey of the south bdy. of Tp. 16 S. Rg. 16 E.

Chains.	N. 89° 56' W., on S. bdy. of sec. 33, on true line, Over level land through dense brush.
2.55	Road bears N. and S.
16.50	Right bank of wash course N. W.
19.50	Left bank of wash.
39.40	Cross wash 20 lks. wide course N.
40.06	The old $\frac{1}{4}$ sec. cor., which I destroy and re-establish in the same place as follows; Set a granite stone 16 x 14 x 4 ins. 11 ins. in the ground for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on N. face; from which A mesquite 4 ins. diam., bears N. 28 $\frac{1}{2}$ ° E. 178 lks. dist., marked $\frac{1}{4}$ S33BT. No other tree available. 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 $\frac{1}{4}$ sec. cor.,
30.00	N. 89° 44' W., on true line, Cross wash 70 lks. wide course N. W.
40.03	Set a granite stone 18 x 6 x 4 ins. 12 ins. in the ground for cor. of secs. 32 and 33 ^{116° 2' E. 116° 2' E.} marked with 4 notches on E. and 2 notches on W. edges; dig pits 28 x 24 x 12 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, rich sandy loam, over 2 ft. deep, dry; medium texture; 1st. rate. No timber. Undergrowth; mesquite, catclaw and cactus.
40.03	N. 89° 44' W., on S. bdy. of sec. 32, on true line, Over level land through dense brush The old $\frac{1}{4}$ sec. cor., which I destroy and re-establish in the same place as follows; Set a granite stone 18 x 8 x 8 ins. 12 ins. in the ground for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on N. face; from which A mesquite 3 ins. diam., bears N. 41 $\frac{1}{2}$ ° W. 345 lks. dist., marked $\frac{1}{4}$ S32BT. No other bearing available. 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 $\frac{1}{4}$ sec. cor.,
40.07	N. 89° 52' W., on true line, Set a granite stone 18 x 8 x 6 ins. 12 ins. in the ground for cor. of secs. 31 and 32 ^{116° 2' E. 116° 2' E.} marked with 5 notches on E. and 1 notch on W. edges; dig pits 24 x 24 x 12 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, rich sandy loam; dry; medium texture; over 2 ft. deep; 1st. rate. No timber. Undergrowth, mesquite, catclaw, and cactus.
18.50	N. 89° 52' W., on S. bdy. of sec. 31, on true line, Over level land through dense brush.
19.05	Cross wash 10 lks. wide course N. W.
24.50	Telephone line bears N. E. and S. W.
40.07	Road bears N. E. and S. W. The old $\frac{1}{4}$ sec. cor., which I destroy and re-establish in the same place as follows; Set a granite stone 16 x 6 x 5 ins. 12 ins. in the ground for $\frac{1}{4}$ 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.
78.26	The cor. of Tps. 16, 17 S., Rgs. 15 and 16 E., described in "Book" Land, level. Soil, rich sandy loam; dry; medium texture; 1st. rate. No timber. Undergrowth, mesquite, catclaw, cactus.

Resurvey of the south bdy. of Tr. 16 S. Rg. 16 E.

chains.

October 9, 1912.

John P. 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 Tp. 17 S. Rg. 16 E. and resurveyed ^{parts or portions of the} all those ^{W. bdy.} of Tp. 17 S. Rg. 17 E. the S. bdy. of Tp. 16 S. Rg. 16 E. and the W. bdy. of Tp. 16 S. Rg. 17 E.

of the Gila & Salt River Base ^{2nd} 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 reestablished} 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 January, 1914

Frank Ingalls
Surveyor General of Arizona.



APPROVAL.

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

The foregoing field notes of the survey of the Subdivision lines of Township N° 17 South, Range N° 16 East, and of the Resurvey of the West boundary of Township N° 17 South, Range N° 17 East, the South boundary of Township N° 16 South, Range N° 16 East and portion of the West boundary of Township N° 16 South, Range N° 17 East of the Gila and Salt River Base and Meridian, Arizona

executed by John F. Hesse, U.S. Surveyor under his special instructions dated May 22, 1912, having been critically examined, and the necessary corrections and explanations made, the said field notes, and the surveys they describe, are hereby approved.

Frank Ingalls
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.~~