

## FIELD NOTES

OF THE SURVEY OF THE  
following township boundaries:

South and West boundaries of Township 8 North, Range 7 West,  
South and West boundaries of Township 8 North, Range 6 West,  
East and West boundaries of Township 8 North, Range 9 West,  
North, South, East and West boundaries of Township 7 North, Range 11W  
North and South boundaries of Township 7 North, Range 10 West,  
Part of East boundary of Township 8 North, Range 11 West,  
East and North boundaries of Township 7 North, Range 13 West,  
North and West boundaries of Township 6 North, Range 13 West,  
East, West, North and South bdrs. of Township 7 North Range 14 W.  
West boundary of Township 6 North, Range 14 West,  
East and West boundaries of Township 8 North, Range 14 West,  
East boundary of Township 8 North, Range 13 West,  
Part of East boundary of Township 6 North, Range 11 West,  
East and South boundaries of Township 7 North, Range 7 West,

Of the Gil and Salt River Base and Meridian,

In the State of Arizona,

## EXECUTED BY

W. H. Thorn, U. S. Surveyor,

and

W. K. Kierulff, U. S. Transitman,

~~In the capacity of U. S. Surveyor~~, under instructions dated Feb. 11, 1914,  
and June 20, 1914,

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

Group No. 34, which were approved by the Commissioner of the General Land

Office Feb. 20, and June 27, 1914, pursuant to authority contained in the Act of

Congress dated , 191

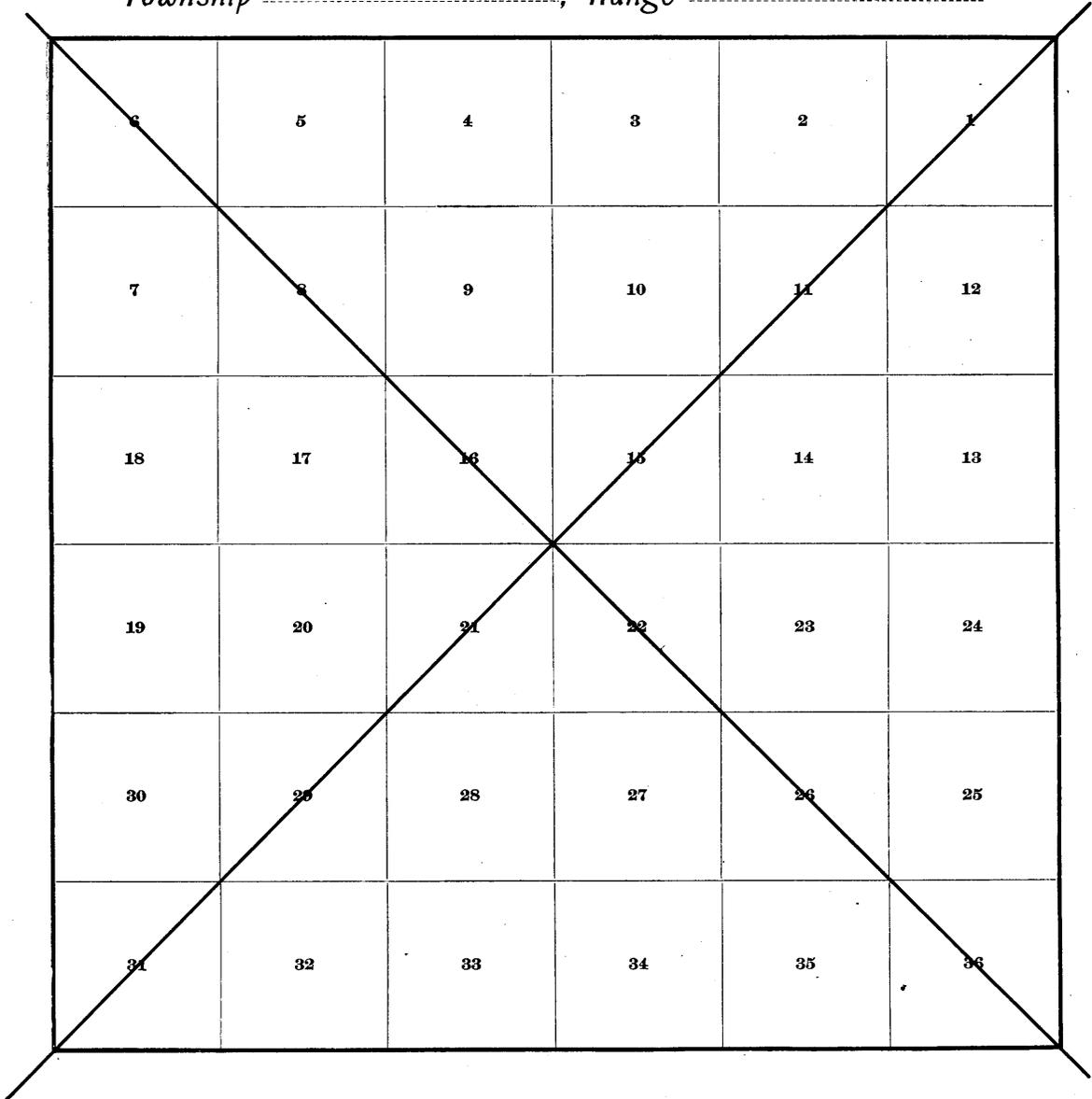
Survey commenced March 12, 1914

Survey completed July 14, 1914.

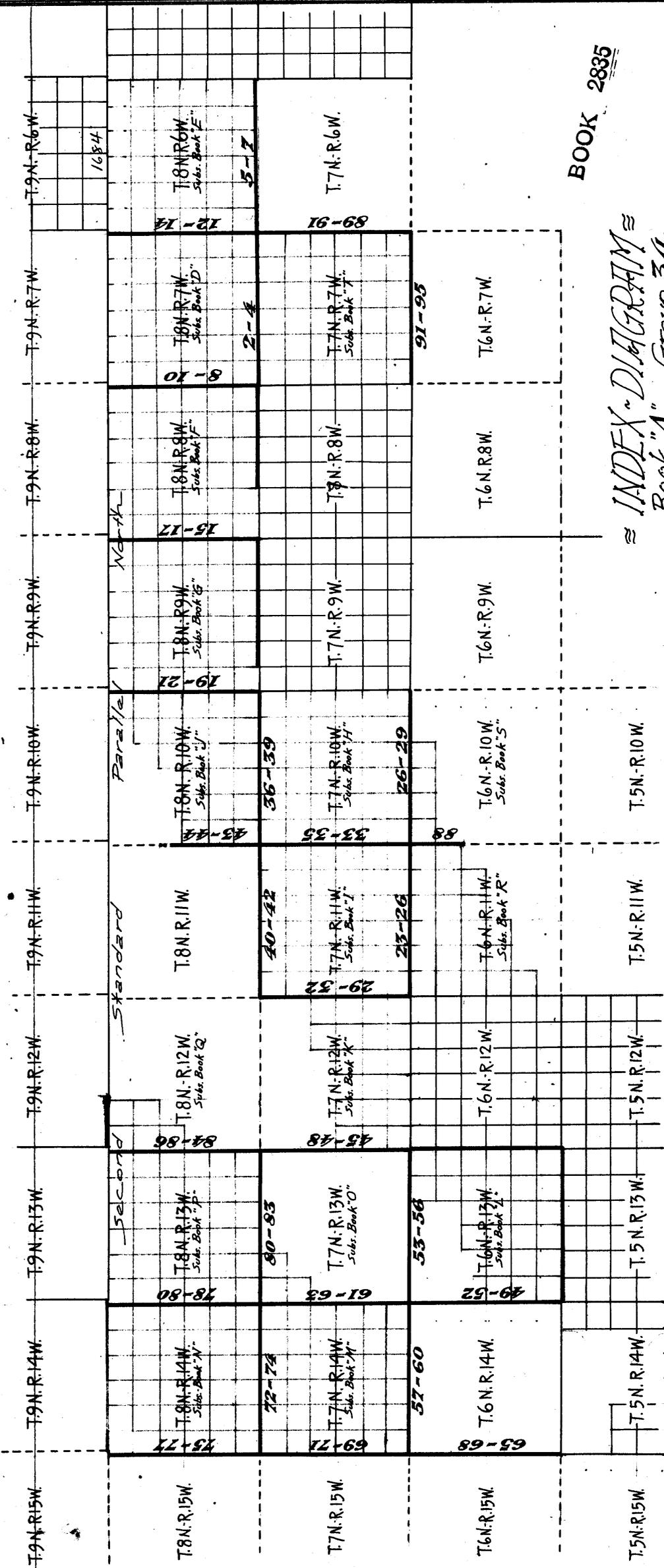
# INDEX DIAGRAM.

(See Special index)

Township \_\_\_\_\_, Range \_\_\_\_\_



2835



INDEX - DIAGRAM ≈  
Book "A" Group 34

BOOK 2835

23-26 Notes of Tp. bdy. surveyed, this Group (indexed in this Book.

Resurvey-Retirements Tp. bds. 15" — Survey of Standard Lines Book "C"

Subdivision lines this Group — Accepted surveys.

--- Tp. bds. unsurveyed.

South bdrs. of Townships 8 North, Ranges 6 and 7 West.

10

Chains.

The initials "W.K.K." and "W.H.T." are inserted in the following notes at the beginning and ending of those portions of the notes describing the surveys executed by W. K. Kierulff, U. S. Transitman and W.H.Thorn, U. S. Surveyor, respectively.

W. K. K.  
Survey commenced March 12, 1914, and executed with a Young and Sons' light mountain transit, No. 8492, with Smith Solar Attachment. The horizontal limb is provided with two double verniers placed opposite to each other, reading to single minutes of arc, which is also the least count of the verniers of latitude and declination arcs.

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

At a point near camp in sec. 29, T. 8 N., R. 6 W.; latitude,  $34^{\circ}00'N.$ ; longitude,  $112^{\circ}55'9''W.$ , at 4h. 0m. p.m., l.m.t., I set off  $34^{\circ}00'N.$  on the lat. arc;  $3^{\circ}19\frac{1}{2}'S.$  on the decl. arc, and determine with the solar a meridian, and mark a point thereof by a tack in a wooden peg set firmly in the ground 5 chains north of my station.

At 8h. 4.7m., p.m., l.m.t., I observe Polaris at Western elongation, and mark a point on the line thus determined by a tack in a wooden peg set firmly in the ground, 5 chains north of my station.

March 12, 1914.

W. K. K.

W. K. K.

March 13, 1914: At 7h. 30m. a.m., l.m.t., I lay off the azimuth of Polaris,  $1^{\circ}23'$  to the east, and mark the meridian thus determined by a tack in the wooden peg already set 5 chains north of my station by solar observation.

At 8h. 2.7m. a.m., l.m.t., I observe Polaris at Eastern elongation, and mark a point in the line thus determined by a tack in a wooden peg set firmly in the ground 5 chs. to the north of my station.

At 8h. 30m. a.m., l.m.t., I lay off the azimuth of Polaris  $1^{\circ}23'$  to the west; the meridian thus determined coincides with the meridian determined by observation on Polaris, March 12th.

At 9h. 0m. a.m., l.m.t., I set off  $34^{\circ}0'N.$  on the lat. arc;  $3^{\circ}3'S.$  on the decl. arc, and determine a meridian with the solar.

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

At the original cor. of Ts. 7 and 8 N., Rs. 5 and 6 W., which is a stone marked and witnessed as described by the Surveyor General, at 10h. 0m. a.m., l.m.t., I set off  $33^{\circ}59'N.$  on the lat. arc;  $3^{\circ}2\frac{1}{2}'S.$  on the decl. arc; and determine a meridian with the solar.

Thence I run,

West, on a random line, setting temp.  $\frac{1}{4}$  sec. and sec. cors. at intervals of 40 chs. for the south boundaries of Ts. 8 N., Rs. 6 and 7 W.

978.86 Fall 6.30 chs. S. of original cor. of Ts. 7 and 8 N., Rs. 7

2 South hdrs. of Townships 8 North Ranges 6 and 7 West.  
Chains.

and 8 W., which is an iron post 3 ins. in diam., 12 ins. above ground with brass cap, marked and witnessed as described by the Surveyor General.

W. K.K.  
March 13, 1914.

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South boundary of Township 8 North, Range 7 West.  
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W.K.K.

March 17, 1914: At 8h. a.m., 1.m.t., I set off 33°59'N. on lat.arc; 1°29'S. on decl.arc, and determine a meridian with the solar at the original cor.of Ts.7 and 8 N., Rs.7 and 8 W.

Thence I run, on south bdy.. of T.8 N., R.7 W., on true line as follows:

East, bet. secs.6 and 31.

Over level land, through greasewood and mesquite brush. Old road brs.NE. and SW.

31.93  
49.43

Set an iron post 3 ft.long, 1 in. in diam., 26 ins. in the ground for  $\frac{1}{4}$  sec.cor., with brass cap, marked, 1914 on S.rim;  
 $\frac{1}{4}$  S 31 in N.half; and  
S 6 on S.half;

dig pits 18x18x12 ins., E.and W. of cor., 3 ft. dist., and raise a mound of earth  $3\frac{1}{2}$  ft. base,  $1\frac{1}{2}$  ft. high, north of cor.

89.43

Set an iron post 3 ft.long, 3 ins. in diam., 24 ins. in the ground for cor.of secs. 5,6,31 and 32, with brass cap, marked,

1914 on S.rim;  
T 8 N S 31 in NW.,  
R 7 W, S 32 in NE.,  
S 5 in SE., and  
S 6 in SW.quadrants;  
T 7 N in S.half;

dig pits 18x18x12 ins., in each sec.  $5\frac{1}{2}$  ft. dist., and raise a mound.of earth 4 ft.base, 2 ft.high, W. of cor.

Land, level.

Soil, adobe and sand, 2nd rate.

Timber, none.

Undergrowth, greasewood, mesquite and catsclaw.

-----  
East, bet. secs. 5 and 32.

Over level land.

40.00

Set an iron post, 1 in. in diam., 3 ft.long, 26 ins. in the ground for  $\frac{1}{4}$  sec.cor., with brass cap, marked, 1914 on S.rim;  
 $\frac{1}{4}$  S 32 on N., and  
S. 5 on S.half;

dig pits 18x18x12 ins., E.and W.of cor., 3 ft. dist., and raise a mound of earth  $3\frac{1}{2}$  ft. base,  $1\frac{1}{2}$  ft. high, N.of cor.

80.00

Set an iron post 3 ft.long, 3 ins. in diam., 24 ins. in the ground for cor.of secs.4,5, 32 and 33, with brass cap, marked,

T 8 N, S 32 in NW.,  
R 7 W S 33 in NE.,  
S 4 in SE., and  
S. 5 in SW.quadrants;  
T 7 N in S.half;

1914 in S.rim;

dig pits 18x18x12 ins., in each sec.  $5\frac{1}{2}$  ft. dist., and raise a mound of earth 4 ft.base, 2 ft.high, west of cor.

Land, level.

Soil adobe and sand, 2nd rate.

South boundary of Township 8 North Range 7 West.

Chains.

Timber, none.  
Undergrowth, greasewood, mesquite and catsclaw.  
Land, level.  
Soil, adobe and sand, 2nd rate.  
Timber, none.  
Undergrowth, greasewood, mesquite and catsclaw.

40.00 East, bet. secs. 4 and 33.  
Over level land.  
Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in the ground for  $\frac{1}{4}$  sec. cor., with brass cap, marked, 1914 on S. rim;  $\frac{1}{4}$  S 33 on N., and S 4, on S. half; dig pits 18x18x12 ins., E. and W. of cor., 3 ft. dist., and raise a mound of earth  $3\frac{1}{2}$  ft. base,  $1\frac{1}{2}$  ft. high, N. of cor.

80.00 Set an iron post, 3 ft. long, 3 ins. in diam., 24 ins. in the ground for cor. of secs. 3, 4, 33 and 34, with brass cap, marked,  
T 8 N, S 33 in NW.  
R. 7 W S 34 in NE.,  
S 3 in SE., and  
S 4 in SW. quadrant;  
T 7 N in S. half;  
1914 on S. rim;  
dig pits 18x18x12 ins. in each sec.  $5\frac{1}{2}$  ft. dist., and raise a mound of earth 4 ft. base, 2 ft. high, west of cor.  
At this cor., I set off  $1^{\circ}26'$  S. on the decl. arc; and at 12h. 8 $\frac{1}{2}$ m. p.m., 1.m.t. I observe the sun on the meridian; the resulting lat. is  $33^{\circ}59'$  N.  
Land, level.  
Soil, adobe and sand, 2nd rate.  
Timber, none.  
Undergrowth, greasewood, mesquite and catsclaw.

19.50 East, bet. secs. 3 and 34.  
Over level land.  
Telegraph line brs. N.  $75\frac{1}{4}^{\circ}$  E. and S.  $75\frac{1}{4}^{\circ}$  W.  
21.80 A. & C. R.R. brs. N.  $75\frac{1}{4}^{\circ}$  E. and S.  $75\frac{1}{4}^{\circ}$  W.  
37.00 Old road parallel to railroad.  
40.00 Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in the ground for  $\frac{1}{4}$  sec. cor., with brass cap, marked, 1914 on S. rim;  $\frac{1}{4}$  S 34 on N., and S 3 on S. half; dig pits 18x18x12 ins., E. and W. of cor., 3 ft. dist., and raise a mound of earth  $3\frac{1}{2}$  ft. base,  $1\frac{1}{2}$  ft. high, north of cor.

80.00 Set an iron post 3 ft. long, 3 ins. in diam., 24 ins. in the ground for cor. of secs. 2, 3, 34 and 35, with brass cap, marked,  
1914 on S. rim;  
T 8 N S 34 in NW.,  
R 7 W, S 35 in NE.,  
S 2 in SE., and  
S 3 in SW. quadrant;  
T 7 N on S. half;  
dig pits 18x18x12 ins., in each sec.  $5\frac{1}{2}$  ft. dist., and raise a mound of earth 4 ft. base, 2 ft. high, west of corner.

4. South boundary of Township 8 North, Range 7 West.  
Chains.

Land, level.  
Soil, adobe and sand, 2nd rate.  
Timber, none.  
Undergrowth, greasewood, mesquite and catsclaw.

East, bet. secs. 2 and 35.  
Over level land.

40.00 Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in the ground for  $\frac{1}{4}$  sec. cor., with brass cap, marked,  
1914 in S. rim;  
 $\frac{1}{4}$  S 35 in N., and  
S 2 in S. half;  
dig pits 18x18x12 ins., E. and W. of cor. 3 ft. dist., and raise a mound of earth  $3\frac{1}{2}$  ft. base,  $1\frac{1}{2}$  ft. high, N. of cor.

50.00 Old road, brs. N. 88° E. and S. 88° W.

80.00 Set an iron post 3 ft. long, 3 ins. in diam., 24 ins. in the ground for cor. of secs. 1, 2, 35 and 36, with brass cap, marked,

1914 in S. rim,  
T 8 N, S 35 in NW.,  
R 7 W S 36 in NE.,  
S 6 in SE., and  
S 5 in SW. quadrants;  
T 7 N in S. half;

dig pits 18x18x12 ins. in each sec.  $5\frac{1}{2}$  ft. dist., and raise a mound of earth 4 ft. base, 2 ft. high, west of corner.

Land, level.  
Soil, adobe and sand, 2nd rate.  
Timber, none.  
Undergrowth, greasewood, mesquite and catsclaw.

East, bet. secs. 1 and 36.  
Over level land.

40.00 Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in the ground for  $\frac{1}{4}$  sec. cor., with brass cap, marked,  
1914 on S. rim;  
 $\frac{1}{4}$  S 36 in N., and  
S 1 in S. half;

dig pits 18x18x12 ins., E. and W. of cor., 3 ft. dist., and raise a mound of earth  $3\frac{1}{2}$  ft. base,  $1\frac{1}{2}$  ft. high, N. of cor.

46.50 Road from Divide to Forepaugh, brs. N. 45° E. and S. 45° W.

80.00 Set an iron post 3 ft. long, 3 ins. in diam., 24 ins. in the ground for cor. of Ts. 7 and 8 N., Rs. 6 and 7 W., with brass cap, marked,

1914 in S. rim;  
T 8 N on N., and  
T 7 N in S. half;  
R 7 W, S 36 in NW.,  
R 6 W, S 31 in NE.,  
S 6 in SE., and  
S 1 in SW. quadrants;

dig pits 24x24x12 ins., E., W. and N., 4 ft. dist., and S of post 8 ft. dist.; and raise a mound of earth 5 ft. base,  $2\frac{1}{2}$  ft. high, S. of cor.

Land, level.  
Soil, adobe and sand, 2nd rate.  
Timber, none. Undergrowth, greasewood, mesquite and catsclaw.

March 17, 1914.

W.K.K.

South boundary of Township 8 North, Range 6 West, 5.

Chains,

W.K.K.

March 18, 1914.

At 8h. a.m., l.m.t., I set off  $33^{\circ}59'N$ . on the lat. arc;  
 $1^{\circ}5\frac{1}{2}'S$ . on the decl. arc, and determine a meridian with  
 the solar at the cor. of Ts. 7 and 8 N., Rs. 6 and 7 W.,  
 just established by me, as hereinbefore described.

Thence I run, on south bdy. of Tp. 8 N., R. 6 W., on a true  
 line, as follows:

East, bet. secs. 6 and 31, over level land.

40.00 Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in  
 the ground for  $\frac{1}{4}$  sec. cor., with brass cap, marked  
 1914 on S. rim;  
 $\frac{1}{4}$  S 31 in N., and  
 S 6 in S. half;

dig pits  $18 \times 18 \times 12$  ins., E. and W. of cor., 3 ft. dist.,  
 and raise a mound of earth  $3\frac{1}{2}$  ft. base,  $1\frac{1}{2}$  ft. high,  
 N. of cor.

80.00 Set an iron post 3 ft. long, 3 ins. in diam., 24 ins. in  
 the ground for cor. of secs. 5, 6, 31 and 32, marked on  
 brass cap,

1914 in S. rim;  
 T 8 N S 31 in NW.;  
 R 6 W S 32 in NE.;  
 S 5 in SE., and  
 S 6 in SW. quadrants;  
 T 7 N in S. half;

dig pits  $18 \times 18 \times 12$  ins. in each sec.  $5\frac{1}{2}$  ft. dist., and  
 raise a mound of earth 4 ft. base, 2 ft. high, west of  
 cor.

Land, level.

Soil, adobe and sand, 2nd rate.

Timber, none.

Undergrowth, greasewood, mesquite, and a few catclaw.

East, bet. secs. 5 and 32,

Over level land.

5.00 Old road brs.  $N. 5^{\circ}E$ . and  $S. 5^{\circ}W$ .

40.00 Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in  
 the ground for  $\frac{1}{4}$  sec. cor., with brass cap, marked,  
 1914 in S. rim;  
 $\frac{1}{4}$  S 32 in N., and  
 S 5 in S. half;

dig pits  $18 \times 18 \times 12$  ins., E. and W. of cor. 3 ft. dist.,  
 and raise a mound of earth  $3\frac{1}{2}$  ft. base,  $1\frac{1}{2}$  ft. high,  
 north of cor.

80.00 Set an iron post 3 ft. long, 3 ins. in diam., 24 ins. in  
 the ground for cor. of secs. 4, 5, 32 and 33, with brass  
 cap marked,

1914 in S. rim,  
 T 8 N S 32 in NW.,  
 R 6 W, S 33 in NE.  
 S 4 in SE., and  
 S 5 in SW. quadrants;  
 T 7 N in S. half;

dig pits  $18 \times 18 \times 12$  ins., in each sec.  $5\frac{1}{2}$  ft. dist., and  
 raise a mound of earth 4 ft. base, 2 ft. high, west of  
 cor.

Land, level.

Soil, adobe and sand, 2nd rate.

Timber, none.

Undergrowth, greasewood, mesquite and catsclaw.

East, bet. secs. 4 and 33.

Over gently rolling land.

39.90 Old road brs.  $N. 85^{\circ}W$ . and  $S. 85^{\circ}E$ .

## 6. South boundary of Township 6 North, Range 6 West.

Chains.

- 40.00 Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in the ground for  $\frac{1}{4}$  sec. cor., with brass cap, marked  
1914 in S. rim;  
 $\frac{1}{4}$  S 33 in N., and  
S 4 in S. half;  
dig pits 18x18x12 ins., E. and W. of cor., 3 ft. dist., and raise a mound of earth  $3\frac{1}{2}$  ft. base,  $1\frac{1}{2}$  ft. high, north of cor.
- 80.00 Set an iron post 3 ft. long, 3 ins. in diam., 24 ins. in the ground for cor. of secs. 3, 4, 33 and 34, with brass cap, marked,  
1914 on S. rim,  
T 8 N S 33 in NW.,  
R 6 W, S 34 in NE.,  
S 3 in SE., and  
S 4 in SW. quadrants;  
T 7 N in S. half;  
dig pits 18x18x12 ins., in each sec.  $5\frac{1}{2}$  ft. dist., and raise a mound of earth 4 ft. base, 2 ft. high, west of cor.
- At this cor. I set off  $1^{\circ}2'S.$  on decl. arc, and at 12h.  $8\frac{1}{2}m.$  p.m. l.m.t., I observe the sun on the meridian; the resulting lat. is  $33^{\circ}59'N.$
- Land, rolling.  
Soil, gravel and adobe, 3rd rate.

-----  
East, bet. secs. 3 and 34.

Over rolling land.

27.80 Old road brs. N. and S.

- 40.00 Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in the ground for  $\frac{1}{4}$  sec. cor., with brass cap, marked,  
1914 in S. rim;  
 $\frac{1}{4}$  S 34 in N., and  
S 3 in S. half;

dig pits 18x18x12 ins., E. and W. of cor. 3 ft. dist., and raise a mound of earth  $3\frac{1}{2}$  ft. base,  $1\frac{1}{2}$  ft. high, north of cor.

74.00 Ascend small ridge, SW. slope.

77.00 Top of small ridge, brs. NE. and SW. Ridge extends 20.00 chs. NE., and 15.00 chs. SW.

Descend to corner over east slope.

- 80.00 Set an iron post 3 ft. long, 3 ins. in diam., in mound of stone 4 ft. base, 2 ft. high, for cor. of secs. 2, 3, 34 and 35, with brass cap marked,

1914 in S. rim;  
T 8 N S 34 in NW.,  
R 6 W S 35 in NE.,  
S 2 in SE., and  
S 3 in SW. quadrants;  
T 7 N in S. half;

pits impracticable. Raise a mound of stone 3 ft. base, 2 ft. high, west of cor.

Land, rolling and hilly.

Soil, gravelly, 4th rate.

Timber, none.

Undergrowth, greasewood and mesquite.

-----  
East, bet. secs. 2 and 35.

Over mountainous land.

12.00 Bottom of descent.

18.00 Old road brs. NE. and SW.

20.00 Dry wash, 50 lks. wide, 5 ft. banks, course NE. Ascend small hill over west slope.

39.00 Top of small hill, brs. N. and S. Descend east slope.

South boundary of Township 8 North, Range 6 West.

Chains.

40.00 Set an iron post 3 ft. long, 1 in. in diam., in mound of stone 3 ft. base, 2 ft. high for  $\frac{1}{4}$  sec. cor., with brass cap, marked,  
 1914 in S. rim;  
 $\frac{1}{4}$  S 35 in N., and  
 S 2 in S. half;  
 pits impracticable; and raise a mound of stone 3 ft. base, 3 ft. high, north of cor.

46.00 Bottom of descent.

53.00 Wash, dry, 50 lks. wide, 5 ft. banks, course NE.

53.20 Old road, brs. N. 30° E. and S. 30° W.

80.00 Set an iron post, 3 ft. long, 3 ins. in diam., 24 ins. in the ground for cor. of secs. 1, 2, 35 and 36, with brass cap, marked,  
 1914 in S. rim;  
 T 8 N S 35 in NW.,  
 R 6 W, S 36 in NE.,  
 S 1 in SE., and  
 S 2 in SW. quadrant;  
 T 7 N in S. half;  
 dig pits 18x18x12 ins., in each sec.  $5\frac{1}{2}$  ft. dist., and raise a mound of earth 4 ft. base, 2 ft. high, west of cor.

Land, mountainous.  
 Soil, gravelly, 4th rate.  
 Timber, palo verde, scattering.  
 Undergrowth, greasewood.

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East, bet. secs. 1 and 36.  
 Over mountainous land.

38.00 Foot of ascent; NW. slope.  
 Numerous small hills and draws, coursing NE.

40.00 Set an iron post 3 ft. long, 1 in. in diam., in mound of stone, 3 ft. base,  $2\frac{1}{2}$  ft. high, for  $\frac{1}{4}$  sec. cor., with brass cap, marked,  
 1914 in S. rim;  
 $\frac{1}{4}$  S 36 in N., and  
 S 1 in S. half;  
 raise a mound of stone 3 ft. base, 3 ft. high, N. of cor.  
 Pits impracticable.

55.00 Top of ridge, brs. NE. and SW.; descend.

68.00 Bottom of descent.

70.00 Dry wash, 100 lks. wide, 3 ft. banks, course NE.

89.43 Intersect east bdy. of Tp. 8 N., R. 6 W., 6.30 chs. N. 0° 01' E. of the original cor. of Ts. 7 and 8 N., Rs. 5 and 6 W. Change marking on original cor. to refer to R. 5 W. only. At point of intersection,  
 Set an iron post 3 ft. long, 1 ft. in the ground (could not set deeper for solid stone) build mound of stone 2 ft. base, 1 ft. high around post for closing cor. of Ts. 7 and 8 N., R. 6 W., with brass cap, marked,  
 T 8 N R 6 W in N. half;  
 S 36 in NW., and  
 S 1 in SW. quadrant;  
 C C in center, and  
 1914 in S. rim;  
 build a mound of stone 5 ft. base, 2 ft. high, W. of cor.  
 Pits impracticable.  
 Land, mountainous.  
 Soil, rocky, 4th rate.  
 Timber, none.  
 Undergrowth, greasewood.

March 18, 1914.  
W.K.K.

8 West bdy of Township 8 North, Range 7 West

Chains.

W.H.T.

Survey commenced March 12, 1914, and executed with a Young and Sons' light mountain transit No. 8592, with Smith solar attachment. The horizontal limb is provided with two double verniers, placed opposite to each other, reading to single minutes of arc, which is also the least count of the latitude and declination arcs.

I examine the adjustments of the transit, and correct the level and collimation errors. I also 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 observation on Polaris.

March 13, 1914. At a point near camp in sec. 29, T. 8 N., R. 6 W.; latitude,  $34^{\circ}00'00''$  N.; longitude,  $112^{\circ}55'9''$  W. at 8h. 5.2 min. a.m., l.m.t., I observe Polaris at Eastern elongation. I lay off the azimuth of Polaris  $1^{\circ}23'$  to the west, and mark the meridian thus determined by a tack in a wooden peg set 9.00 chs. north of my station. The solar apparatus by a.m. and p.m. observations defines positions for meridians, respectively  $0^{\circ}30''$  E. and W. of the meridian established by Polaris observation. Therefore, I conclude that the adjustments of the instrument are satisfactory.

March 14, 1914: At 10h. a.m., l.m.t., I set off  $33^{\circ}59'$  N. on the lat. arc; and  $2^{\circ}38\frac{1}{2}'$  S. on decl. arc; and determine a meridian with the solar at the original cor. of Ts. 7 and 8 N., Rs. 7 and 8 W., which is an iron post 3 ins. in diam., 1 ft. above ground, marked and witnessed as described by the Surveyor General.

Thence I run, on W. bdy. of T. 8 N., R. 7 W. on true line, as follows:

North, bet. secs. 31 and 36.

Over level land, through mesquite brush.

40.00 Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in the ground for  $\frac{1}{4}$  sec. cor., with brass cap, marked,  
 $\frac{1}{4}$  S 36 in W, and  
 S 31 in E. half;  
 1914 in S. rim;

dig pits  $18 \times 18 \times 12$  ins., N. and S. of cor., 3 ft. dist., and raise a mound of earth  $3\frac{1}{2}$  ft. base,  $1\frac{1}{2}$  ft. high, west of cor.

80.00 Set an iron post, 3 ft. long, 3 ins. in diam., 24 ins. in the ground for cor. of secs. 25, 30, 31 and 36, with brass cap, marked,

T 8 N in N. half;  
 R 8 W S 25 in NW.,  
 R 7 W, S 30 in NE.,  
 S 31 in SE., and  
 S 36 in SW. quadrant;  
 1914 in S. rim;

dig pits  $18 \times 18 \times 12$  ins., in each sec.  $5\frac{1}{2}$  ft. dist., and raise a mound of earth 4 ft. base; 2 ft. high, west of corner.

Land, level.

Soil, adobe, 2nd rate.

Timber, none.

Undergrowth, greasewood, mesquite, 6 to 8 ft. high.

North, bet. secs. 25 and 30.

Over level land, through mesquite and greasewood brush.

40.00 Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in the ground for  $\frac{1}{4}$  sec. cor., with brass cap, marked,  
 $\frac{1}{4}$  S 25 in W, and  
 S 30 in E. half;  
 1914 in S. rim;

Chains.

dig pits 18x18x12 ins., N. and S. of corner 3 ft. dist. and raise a mound of earth 3 1/2 ft. base, 1 1/2 ft. high, west of cor.

80.00 Set an iron post 3 ft. long, 3 ins. in diam., 24 ins. in the ground for cor. of secs. 19, 24, 25 and 30, with brass cap marked,  
 T 8 N in N. half;  
 R 8 W S 24 in NW.,  
 R 7 W, S 19 in NE.,  
 S 30 in SE., and  
 S 25 in SW. quadrant;  
 1914 in S. rim;

dig pits 18x18x12 ins., in each sec. 5 1/2 ft. dist., and raise a mound of earth 4 ft. base, 2 ft. high, west of cor.

At this cor., I set off 2°36 1/2' S. on the decl. arc; and at 12h. 9m., 31s. p.m., l.m.t., observe the sun on the mer. The resulting latitude is 34° 01' N.

Land, level.  
 Soil, adobe, 2nd rate.  
 Timber, none.  
 Undergrowth, greasewood and mesquite, 6 to 8 ft. high.

North, bet. secs. 19 and 24.

25.00 Over level land, through greasewood and mesquite brush.  
 40.00 Enter growth of chub cactus, 4 to 7 ft. high.

40.00 Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in the ground for 1/4 sec. cor. with brass cap, marked,  
 1/4 S 24 in W., and  
 S 19 in E. half;  
 1914 in S. rim;

dig pits 18x18x12 ins., N. and S. of cor. 3 ft. dist., and raise a mound of earth 3 1/2 ft. base, 1 1/2 ft. high, west of cor.

80.00 Set an iron post, 3 ft. long, 3 ins. in diam. & 24 ins. in the ground for cor. of secs. 13, 18, 19 and 24, with brass cap marked,  
 T 8 N in N. half;  
 R 8 W S 13 in NW.,  
 R 7 W, S 18 in NE.,  
 S 19 in SE.; and  
 S 24 in SW. quadrant;  
 1914 in S. rim;

dig pits 18x18x12 ins., in each sec. 5 1/2 ft. dist., and raise a mound of earth 4 ft. base, 2 ft. high, west of cor.

Land, level.  
 Soil, sandy loam, 2nd rate.  
 Timber, none.  
 Undergrowth, greasewood and mesquite brush, 6 to 8 ft. high.

March 14, 1914.

April 6, 1914:  
 At 8h. 0m., a.m., l.m.t., I set off 6°19' N. on the decl. arc; 34°02' N. on the lat. arc; and determine a meridian with the solar at the cor. of secs. 13, 18, 19 and 24.  
 Thence I run,  
 North, bet. secs. 13 and 18.

40.00 Over level land, through greasewood and mesquite brush.  
 Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in the ground for 1/4 sec. cor., with brass cap marked,

10. West boundary of Township 8 North Range 7 West.

Chains.

$\frac{1}{4}$  S 13 in W., and  
 S 18 in E. half;  
 1914 in S. rim;  
 dig pits 18x18x12 ins., N. and S. of cor. 3 ft. dist.,  
 and raise a mound of earth  $3\frac{1}{2}$  ft. base,  $1\frac{1}{2}$  ft. high,  
 west of cor.  
 70.00 Shallow dry wash, 6 lks. wide, course S.  $30^{\circ}$  W.  
 80.00 Set an iron post 3 ft. long, 3 ins. in diam., 24 ins. in  
 the ground for cor. of secs. 7, 12, 13 and 18, with brass  
 cap, marked,  
 T 8 N in N. half;  
 R 8 W S 12 in NW.,  
 R 7 W, S 7 in NE.,  
 S 18 in SE., and  
 S 13 in SW. quadrant;  
 1914 in S. rim;  
 dig pits 18x18x12 ins., in each sec.  $5\frac{1}{2}$  ft. dist.,  
 and raise a mound of earth 4 ft. base, 2 ft. high, west  
 of cor.  
 Land, level.  
 Soil, sandy, 2nd rate.  
 Timber, none.  
 Undergrowth, greasewood and mesquite brush, 4 to 6 ft.  
 high.

North, bet. secs. 7 and 12.  
 Over low hills.  
 5.00 Ascend over small low hill, extends 7.00 chs. west.  
 16.00 Dry wash, 4 lks. wide,  $1\frac{1}{2}$  ft. deep, course S.  $40^{\circ}$  W.  
 22.40 Ascend over rocky hill, 8.00 chs. long, brs. NW. and SE.  
 37.00 Old road, brs. NW. and SE.  
 40.00 Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in  
 the ground for  $\frac{1}{4}$  sec. cor., with brass cap marked,  
 $\frac{1}{4}$  S 12 in W., and  
 S 7 in E. half;  
 1914 in S. rim;  
 dig pits 18x18x12 ins., N. and S. of cor., 3 ft. dist.,  
 and raise a mound of earth  $3\frac{1}{2}$  ft. base,  $1\frac{1}{2}$  ft. high,  
 west of cor.  
 80.00 Set an iron post 3 ft. long, 3 ins. in diam., 24 ins. in  
 the ground for cor. of secs. 1, 6, 7 and 12, with brass  
 cap marked,  
 T 8 N in N. half;  
 R 8 W S 1 in NW.,  
 R 7 W S 6 in NE.,  
 S 7 in SE., and  
 S 12 in SW. quadrants;  
 1914 in S. rim;  
 dig pits 18x18x12 ins. in each sec.  $5\frac{1}{2}$  ft. dist.,  
 and raise a mound of earth 4 ft. base, 2 ft. high, west  
 of cor.  
 Land, first half small hills; last half level.  
 Soil, sandy on level, 2nd rate.  
 Timber, none.  
 Undergrowth, greasewood and mesquite brush, 3 to 6 ft.  
 high.  
 Club cactus and scattering yucca palms.

North, bet. secs. 1 and 6.  
 Over level land.  
 22.00 Old road brs. N.  $70^{\circ}$  E. and S.  $70^{\circ}$  W.  
 40.00 Set iron post 3 ft. long, 1 in. in diam., 26 ins. in the  
 ground for  $\frac{1}{4}$  sec. cor., with brass cap marked,  
 $\frac{1}{4}$  S 1 in W., and  
 S 6 in E. half;  
 1914 in S. rim.

Chains.

64.50 dig pits 18x18x12 ins. N. and S. of cor. 3 ft. dist., and  
 65.42 raise a mound of earth  $3\frac{1}{2}$  ft. base,  $1\frac{1}{2}$  ft. high, W. of cor.  
 Old road brs. NE. and SW.  
 Intersect 2nd Std. Parallel  $11\frac{1}{2}$ , 18.51 chs. west of standard  
 cor. of T. 9 N., Rs. 7 and 8 W., which is an iron post,  
 3 ins. in diam., 1 ft. above ground, marked and wit-  
 nessed as described by the Surveyor General.  
 At point of intersection, set an iron post, 3 ft. long,  
 3 ins. in diam., 24 ins. in the ground for closing  
 cor. of Ts. 8 N., Rs. 7 and 8 W., with brass cap marked,  
 T 8 N in S. half;  
 R 7 W S 6 in SE., and  
 R 8 W, S 1 in SW. quadrants;  
 C C near center of cap,  
 1914 in S. rim;  
 dig pits 30x24x12 ins., crosswise on each line, E. & W. 4 ft.  
 and S. of post 8 ft. dist., and raise a mound of earth  
 5 ft. base,  $2\frac{1}{2}$  ft. high, south of cor.  
 Land, level.  
 Soil, sandy, 2nd rate.  
 Timber, none.  
 Undergrowth, greasewood, mesquite brush.  
 Yucca palms.

April 16, 1914.

W. H. T.

12. West boundary of Township 8 North, Range 6 West.

Chains.

W. H. T.

March 17, 1914:

At 8h. a.m., l.m.t., I set off 1°29'S. on the decl. arc; 33°59'N. on the lat. arc, and determine a meridian with the solar at the cor. of Ts. 7 and 8 N., Rs. 6 and 7 W., established by W. K. Kierulff, U.S. Transitman, herein before described.

Thence I run, on west bdy. of T. 8 N., R. 6 W. on true line, as follows:

North, bet. secs. 31 and 36.

Over level land, through scattering mesquite brush.

40.00 Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in the ground, for 1/4 sec. cor., with brass cap marked, 1/4 S 36 on W., and S 31 in E. half; 1914 in S. rim;

dig pits 18x18x12 ins., N. and S. of cor., 3 ft. dist., and raise a mound of earth 3 1/2 ft. base, 1 1/2 ft. high, west of cor.

57.16 Arizona and California Railroad brs. N. 75°17'E., and S. 75°17'W.

57.76 Telegraph line, brs. N. 75°17'E. and S. 75°17'W.

80.00 Set an iron post, 3 ft. long, 3 ins. in diam., 24 ins. in the ground for cor. of secs. 25, 30, 31 and 36, with brass cap, marked,

T 8 N in N. half;  
R 7 W S 25 in NW.,  
R 6 W S 30 in NE.,  
S 31 in SE., and  
S 36 in SW. quadrants;  
1914 in S. rim;

dig pits 18x18x12 ins., in each sec. 5 1/2 ft. dist., and raise a mound of earth 4 ft. base, 2 ft. high, west of cor.

Land, level.

Soil, adobe, 2nd rate.

Timber, none.

Undergrowth, scattering mesquite brush.

North, bet. secs. 25 and 30.

Over level land.

40.00 Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in the ground for 1/4 sec. cor., with brass cap marked, 1/4 S 25 on W., and S 30 in E. half; 1914 in S. rim;

dig pits 18x18x12 ins., N. and S. of cor., 3 ft. dist., and raise a mound of earth 3 1/2 ft. base, 1 1/2 ft. high, west of cor.

80.00 Set an iron post 3 ft. long, 3 ins. in diam., 24 ins. in the ground for cor. of secs. 19, 24, 25 and 30, with brass cap, marked,

T 8 N in N. half;  
R 7 W S 24 in NW.,  
R 6 W S 19 in NE.,  
S 30 in SE., and  
S 25 in SW. quadrant;  
1914 in S. rim;

dig pits 18x18x12 ina., in each sec. 5 1/2 ft. dist., and raise a mound of earth 4 ft. base, 2 ft. high, west of cor.

Land, level.

Soil, adobe 2nd rate.

Timber, none.

Undergrowth, greasewood and mesquite brush 6 to 8 ft. high.

West boundary of Township 8 North, Range 6 West. 13.

Chains.

North, bet. secs. 19 and 24.  
 Over level land, through greasewood brush.  
 40.00 Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in the ground for  $\frac{1}{4}$  sec. cor., with brass cap marked,  
 $\frac{1}{4}$  S 24 in W., and  
 S 19 in E. half;  
 1914 in S. rim;  
 dig pits 18x18x12 ins., N. and S. of cor. 3 ft. dist. and raise a mound of earth  $3\frac{1}{2}$  ft. base,  $1\frac{1}{2}$  ft. high, west of cor.  
 80.00 Set an iron post 3 ft. long, 3 ins. in diam., 24 ins. in the ground for cor. of secs. 13, 18, 19 and 24, with brass cap, marked,  
 T 8 N in N. half;  
 R 7 W S 13 in NW.,  
 R 6 W, S 18 in NE.,  
 S 19 in SE., and  
 S 24 in SW. quadrant;  
 1914 in S. rim;  
 dig pits 18x18x12 ins. in each sec.  $5\frac{1}{2}$  ft. dist., and raise a mound of earth 4 ft. base, 2 ft. high, west of cor.  
 Land, level.  
 Soil, adobe, 2nd rate.  
 Timber, none.  
 Undergrowth, greasewood, 6 to 8 ft. high, Scattering mesquite.

North, bet. secs. 13 and 18.  
 Over level land, through greasewood brush.  
 8.00 Enter dense growth of club cactus.  
 26.00 End of hill, covered with boulders, brs. west 10 chs.  
 40.00 Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in the ground, for  $\frac{1}{4}$  sec. cor., with brass cap, marked,  
 $\frac{1}{4}$  S 13 on W., and  
 S 18 on E. half;  
 1914 on S. rim;  
 dig pits 18x18x12 ins., N. and S. of cor. 3 ft. dist., and raise a mound of earth  $3\frac{1}{2}$  ft. base,  $1\frac{1}{2}$  ft. high, west of cor.  
 At this cor., I set off  $1^{\circ}26'S.$  on the decl. arc; and at 12h. 8m. 40 secs. p.m., l.m.t., I observe the sun on the meridian; the resulting lat. is  $34^{\circ}02'N.$   
 80.00 Set an iron post 3 ft. long, 3 ins. in diam., 24 ins. in the ground for cor. of secs. 7, 12, 13 and 18, with brass cap marked,  
 T 8 N in N. half;  
 R 7 W S 12 in NW.,  
 R 6 W, S 7 in NE.,  
 S 18 in SE., and  
 S 13 in SW. quadrant;  
 1914 in S. rim;  
 dig pits 18x18x12 ins. in each sec.  $5\frac{1}{2}$  ft. dist., and raise a mound of earth 4 ft. base, 2 ft. high, west of corner.  
 Land, level.  
 Soil, adobe, 2nd rate.  
 Timber, none.  
 Undergrowth, first half mile, greasewood brush. Last half mile, mesquite brush.

North, bet. secs. 7 and 12.  
 Over level land, through mesquite brush, 4 to 8 ft. high.  
 25.10 Dry wash, 6 lks. wide, 2 ft. deep, course S.  $20^{\circ}E.$

## 14. West bdy. of Township 8 North, Range 6 West.

Chains.

- 40.00 Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in the ground for  $\frac{1}{4}$  sec. cor., with brass cap marked,  
 $\frac{1}{4}$  S 12 on W., and  
 S 7 in E. half;  
 1914 in S. rim;  
 dig pits 18x18x12 ins., N. and S. of cor. 3 ft. dist., and raise a mound of earth  $3\frac{1}{2}$  ft. base,  $1\frac{1}{2}$  ft. high, west of cor.
- 60.74 Dry wash, 10 lks. wide, 1 ft. deep, course S. 20° E.  
 67.30 Dry wash, 10 lks. wide, 1 ft. banks, course S. 20° E.  
 75.86 Dry wash, 6 lks. wide, 1 ft. banks, course S. 20° E.  
 80.00 Set an iron post 3 ft. long, 3 ins. in diam., 24 ins. in the ground for cor. of secs. 1, 6, 7 and 12, with brass cap marked,  
 T 8 N in N. half;  
 R 7 W S 1 in NW.,  
 R 6 W S 6 in NE.,  
 S 7 in SE., and  
 S 12 in SW. quadrant;  
 1914 in S. rim;  
 dig pits 18x18x12 ins., in each sec.  $5\frac{1}{2}$  ft. dist., and raise a mound of earth 4 ft. base, 2 ft. high, west of cor.  
 Land, level.  
 Soil, adobe, 2nd rate.  
 Timber, none.  
 Undergrowth, mesquite brush, 4 to 8 ft. high, west of Club cactus.  
 Land, level.  
 Soil, adobe, 2nd rate.  
 Timber, none.  
 Undergrowth, mesquite brush, 4 to 8 ft. high.  
 Club cactus.
- 
- North, bet. secs. 1 and 6.  
 Over level land, through scattering mesquite brush.  
 13.06 Dry wash, 10 lks. wide, 1 ft. banks, course S. 50° E.  
 14.66 Old road brs. N. 30° E. and S. 30° W.  
 32.96 Dry wash, 15 lks. wide,  $1\frac{1}{2}$  ft. banks, course east.  
 33.06 Ascend steep rocky SW. slope, over boulders.  
 40.00 Set an iron post 3 ft. long, 1 in. in diam., in mound of stone 3 ft. base,  $2\frac{1}{2}$  ft. high for  $\frac{1}{4}$  sec. cor., with brass cap, marked,  
 $\frac{1}{4}$  S 1 in W., and  
 S 6 in E. half;  
 1914 in S. rim;  
 build a mound of stone 4 ft. base,  $2\frac{1}{2}$  ft. high, west of cor. Pits impracticable.
- 41.99 Top of hill, brs. S. 60° E. and N. 60° W., 140 ft. ascent. Hill extends 25.00 chains east.  
 Descend over steep rocky slope.
- 49.97 Bottom of descent, brs. SE. and NW.  
 65.76 Intersect Second Standard Parallel North, 10.69 chs. west of the standard cor. of Ts. 9 N., Rs. 6 and 7 W., which is a malpais stone 14x8x12 ins. above ground, marked and witnessed as described by the Surveyor General.  
 At point of intersection, I set an iron post 3 ft. long, 3 ins. in diam., 24 ins. in the ground for closing cor. of Ts. 8 N., Rs. 6 and 7 W., with brass cap, marked,  
 T 8 N in S. half;  
 R 6 W, S 6 in SE., and  
 R 7 W S 1 in SW. quadrants;  
 C C near center of cap,  
 1914 in S. rim;  
 dig pits 30x24x12 ins. crosswise on each line, E. and W. 4 ft., and S. of post 8 ft. dist., and raise a mound of earth 5 ft. base,  $2\frac{1}{2}$  ft. high, south of cor.

West boundary of Township 8 North Range 6 West. 15.

Chains.

Land, level and mountainous.  
 Soil, 4th rate.  
 Timber, scrub palo verde.  
 Undergrowth, greasewood and mesquite brush on level parts.  
 Giant cactus on mountainous part.

March 17, 1914.  
 W. H. T.

-----  
 East boundary of Township 8 North, Range 9 West.  
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W.H.T.  
 Survey commenced April 13, 1914, and executed with a Young and Sons' light mountain transit No. 8592, hereinbefore described.

At 9h. a.m., l.m.t., I set off 8°55'N. on the decl. arc; 33° 59'N. on the lat. arc, and determine a meridian with the solar at the cor. of Ts. 7 and 8 N., Rs. 8 and 9 W., an iron post with brass cap, marked and witnessed as described by the Surveyor General.

Thence I run, on east bdy. of Tp. 8 N., R. 9 W., on true line as follows:

North, bet. secs. 31 and 36.  
 Over level land, through greasewood and mesquite brush.

26.90  
40.00

Wagon road to Congress, brs. N. 30° E. and S. 30° W.  
 Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in the ground for  $\frac{1}{4}$  sec. cor., with brass cap marked,  
 $\frac{1}{4}$  S 36 in W., and  
 S 31 in E. half;  
 1914 in S. rim,

dig pits 18x18x12 ins., N. and S. of cor. 3 ft. dist., and raise a mound of earth  $3\frac{1}{2}$  ft. base,  $1\frac{1}{2}$  ft. high, west of cor.

80.00

Set an iron post 3 ft. long, 3 ins. in diam., 24 ins. in the ground for cor. of secs. 25, 30, 31 and 36, with brass cap, marked,  
 T 8 N in N. half;  
 R 9 W, S 25 in NW.,  
 R 8 W, S 30 in NE.,  
 S 31 in SE., and  
 S 36 in SW. quadrant;  
 1914 in S. rim;

dig pits 18x18x12 ins., in each sec.  $5\frac{1}{2}$  ft. dist., and raise a mound of earth 4 ft. base, 2 ft. high, W. of cor.

Land, level.  
 Soil, sandy, 2nd rate.  
 Timber, none.  
 Undergrowth, greasewood and mesquite brush, 4 to 10 ft. high.  
 Scattering cactus.

-----  
 North, bet. secs. 25 and 30.  
 Over level land.

32.40  
40.00

Dry wash, 12 lks. wide, 2 ft. banks, course SW.  
 Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in the ground, for  $\frac{1}{4}$  sec. cor., with brass cap, marked,  
 $\frac{1}{4}$  S 25 in W., and  
 S 30 in E. half;  
 1914 in S. rim;

dig pits 18x18x12 ins., N. and S. of cor. 3 ft. dist., and raise a mound of earth  $3\frac{1}{2}$  ft. base,  $1\frac{1}{2}$  ft. high, west of cor.

49.80  
80.00

Old road, brs. N. 70° W. and S. 80° E.  
 Set an iron post 3 ft. long, 3 ins. in diam., 24 ins. in the ground for cor. of secs. 19, 24, 25 and 30, with brass cap marked,

## 16. East boundary of Township 8 North, Range 9 West.

Chains.

T 8 N in N.half;  
 R 9 W S 24 in NW.,  
 R 8 W, S 19 in NE.,  
 S 30 in SE.; and  
 S 25 in SW. quadrants;  
 1914 in S.rim;

dig pits 18x18x12 ins. in each sec. 5½ ft. dist., and  
 raise a mound of earth 4 ft. base, 2 ft. high, west of  
 corner.

Land, level.

Soil, sandy, 2nd rate.

Timber, none.

Undergrowth, greasewood and mesquite brush, 4 to 8 ft.  
 high.

North, bet. secs. 19 and 24.

Over level land.

21.00 Ascend steep rocky SW. slope.

39.00 Top of ascent; ridge brs. N. 70° W. and S. 70° E. Descend  
over N. slope.40.00 Set an iron post 3 ft. long, 1 in. in diam., in a mound  
of stone 3 ft. base, 2½ ft. high, for ¼ sec. cor., with  
brass cap marked,

¼ S 24 in W., and

S 19 in E. half;

1914 in S. rim; pits impracticable;

raise a mound of stone 3 ft. base, 2½ ft. high, west  
 of cor.

At this cor., I set off 8° 57' N. on the decl. arc; and at  
 12h. Om. a.m., l.m.t., I observe the sun on the meridian;  
 the resulting lat. is 34° 01½' N.

62.80 Foot of descent; dry wash 20 lks. wide, 3 ft. banks, course  
west.

Ascend south slope.

80.00 Set an iron post 3 ft. long, 3 ins. in diam., in a mound  
of stone 4 ft. base, 2½ ft. high, for cor. of secs. 13,  
18, 19 and 24, with brass cap marked,

T 8 N in N. half;

R 9 W S 13 in NW.,

R 8 W, S 18 in NE.,

S 19 in SE., and

S 24 in SW. quadrants;

1914 in S. rim;

pits impracticable. Raise a mound of stone 3 ft.  
 base, 2 ft. high, west of cor.

Land, south 20 chs. level; north 60 chs. mountainous and  
 rough.

Soil, south 20 chs. sandy, 3rd rate; north 60 chs. rocky,  
 4th rate.

Timber, scrub palo verde and ironwood.

Undergrowth, greasewood brush.

Ocotillo and giant cactus.

North, bet. secs. 13 and 18.

Over mountainous land.

24.50 Top of mountain, 1100 ft. high, brs. N. 70° W. and S. 70° E.  
Descend over north slope.40.00 Set an iron post 3 ft. long, 1 in. in diam., in a mound  
of stone 3 ft. base, 2½ ft. high for ¼ sec. cor. with  
brass cap marked,

¼ S 13 in W., and,

S 18 in E. half;

1914 in S. rim; pits impracticable.

Build mound of stone 3 ft. base, 2½ ft. high, west

East boundary of Township 8 North Range 9 West 17.

Chains.

of corner.  
 74.50 Foot of descent; dry wash 15 lks.wide, 6 ft. banks course N.10°E.  
 80.00 Set an iron post 3 ft.long, 3 ins. in diam., 18 ins. in the ground (could not set deeper for solid stone); build mound of stone 3 ft.base, 1ft.high around post for cor.of secs. 7, 12, 13 and 18, with brass cap, marked,  
     T 8 N in N.half;  
     R 9 W S 12 in NW.,  
     R 8 W S 7 in NE.,  
     S 18 in SE., and  
     S 13 in SW. quadrants;  
     1914 in S.rim;  
 pits impracticable. Raise a mound of stone 4 ft.base, 2½ ft.high, west of cor.  
 Land, mountainous.  
 Soil, rocky, 4th rate.  
 Timber, scrub palo verde.  
 Undergrowth, greasewood brush.  
 Giant cactus.

April 13, 1914.

April 15, 1914:  
 North, bet. secs. 7 and 12.  
 Descend gradual NE. slope.  
 .60 Dry wash, 10 lks.wide, 4 ft.banks, course N.30°E.  
 40.00 Set an iron post 3 ft.long, 1 in. in diam., 26 ins. in the ground for ¼ sec.cor., with brass cap, marked,  
     ¼ S 12 in W., and  
     S 7 in E.half;  
     1914 in S.rim;  
 dig pits 18x18x12 ins., N.and S.of cor., 3 ft.dist., and raise a mound of earth 3½ ft.base, 1½ ft. high, W. of cor.  
 40.80 Dry wash, 15 lks.wide, 3 ft. banks, course N.60°E.  
 80.00 Set an iron post, 3 ft.long, 3 ins. in diam., 24 ins. in the ground for cor.of secs.1, 6, 7 and 12, with brass cap marked,  
     T 8 N in N.half;  
     R 9 W S 1 in NW.,  
     R 8 W S 6 in NE.,  
     S 7 in SE., and  
     S 12 in SW. quadrants;  
     1914 in S.rim;  
 dig pits 18x18x12 ins. in each sec. 5½ ft. dist., and raise a mound of earth 4 ft.base, 2 ft.high, west of cor.  
 Land, level.  
 Soil, sandy and gravel, 2nd and 3rd rate.  
 Timber, none.  
 Undergrowth, greasewood and mesquite 4 to 8 ft.high.  
 Club cactus.

North, bet. sacs. 1 and 6.  
 Over level land.  
 28.60 Dry wash, 10 lks.wide, 3 ft.banks, course N.10°E.  
 40.00 Set an iron post 3 ft.long, 1 in. indiam., 26 ins. in the ground for ¼ sec.cor., with brass cap marked,  
     ¼ S 1 in W., and  
     S 6 in E.half;  
     1914 in S.rim;  
 dig pits 18x18x12 ins., N.and S. of cor. 3 ft. dist., and raise a mound of earth 3½ ft. base, 1½ ft. high, west of cor.

18 East boundary of Township 8 North Range 9 West.

Chains.

65.65 Intersect Second Standard Parallel North, 15.34 chs. west of the standard cor. of Ts. 9 N., Rs. 8 and 9 W., which is an iron post 3 ins. in diam., with brass cap, 1 ft. above ground, marked and witnessed as described by the Surveyor General.

At point of intersection, I set an iron post 3 ft. long, 3 ins. in diam., 24 ins. in the ground for closing cor. of Ts. 8 N., Rs. 8 and 9 W., with brass cap, marked

- T 8 N in S. half;
- C. C. S of center,
- R 8 W S 6 in SE., and
- R 9 W S 1 in SW. quadrants;
- 1914 in S. rim;

dig pits 30x24x12 ins. crosswise on each line, E. and W. 4 ft., and S. of cor. 8 ft. dist.; raise a mound of earth 5 ft. base, 2 1/2 ft. high, south of cor.

Land, level.

Soil, sandy, 2nd rate.

Timber, none.

Undergrowth, greasewood and mesquite brush, 4 to 8 ft. high.

April 15, 1914.

W. H. T.



West boundary of Township 8 North, Range 9 West. 19

Chains.

W.H.T.

April 20, 1914:

At 9h. a.m., l.m.t., I set off 11°24' N. on the decl. arc; 35°59' N. on the lat. arc; and determine a meridian at the cor. of Ts. 7 and 8 N., Rs. 9 and 10 W., which is an iron post with brass cap, marked and witnessed as described by the Surveyor General.

Thence I run, on west bdy. of T. 8 N., R. 9 W., on true line, as follows:

North, bet. secs. 31 and 36.

Over level land, through greasewood brush.

40.00

Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in the ground for 1/4 sec. cor., with brass cap marked,

1/4 S 36 in W., and

S 31 in E. half;

1914 in S. rim; from which,

A mesquite, 5 ins. in diam., brs. N. 12° E., 31

lks. dist., marked 1/4 S 31 B T.

No other trees available. Dig pits 18x18x12 ins., N. and S. of cor. 3 ft. dist., and raise a mound of earth 3 1/2 ft. base, 1 1/2 ft. high, west of cor.

80.00

Set an iron post 3 ft. long, 3 ins. in diam., 24 ins. in the ground for cor. of secs. 25, 30, 31 and 36, with brass cap marked,

T 8 N in N. half;

R 10 W, S 25 in NW.,

R 9 W, S 30 in NE.,

S 31 in SE., and

S 36 in SW. quadrants;

1914 in S. rim;

dig pits 18x18x12 ins., in each sec. 5 1/2 ft. dist., and raise a mound of earth 4 ft. base, 2 ft. high, west of corner.

Land, level.

Soil, sandy and gravel, 2nd rate.

Timber, scattering mesquite and ironwood.

Undergrowth, greasewood and mesquite brush 4 to 6 ft. high.

Native grass.

North, bet. secs. 25 and 30.

Over level land.

40.00

Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in the ground for 1/4 sec. cor., with brass cap, marked,

1/4 S 25 in W., and

S 30 in E. half;

1914 in S. rim;

dig pits 18x18x12 ins., N. and S. of cor. 3 ft. dist., and raise a mound of earth 3 1/2 ft. base, 1 1/2 ft. high, W. of corner.

67.20

Dry wash, 10 lks. wide, 2 ft. banks, course S 30° E.

72.05

Dry wash, 6 lks. wide, 1 ft. banks, course S. 30° E.

80.00

Set an iron post 3 ft. long, 3 ins. in diam., 24 ins. in the ground for cor. of secs. 19, 24, 25 and 30, with brass cap marked,

T 8 N in N. half;

R 10 W, S 24 in NW.,

R 9 W S 19 in NE.,

S 30 in SE., and

S 25 in SW. quadrant;

1914 in S. rim;

dig pits 18x18x12 ins., in each sec. 5 1/2 ft. dist., and raise a mound of earth 4 ft. base, 2 ft. high, W. of cor.

Land, level.

Soil, sandy, 2nd rate.

Undergrowth, greasewood and mesquite brush.

Timber, none.

## 20. West boundary of Township 8 North Range 9 West.

Chains.

North, bet. secs. 19 and 24.  
 Over level land, through greasewood brush, 4 to 6 ft. high.

11.00 Dry wash, 6 lks. wide, 1 ft. banks, course S. 20° E.  
 23.50 Dry wash, 8 lks. wide, 1 ft. banks, course S. 15° E.  
 40.00 Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in the ground for  $\frac{1}{4}$  sec. cor., with brass cap marked,  
 $\frac{1}{4}$  S 24 on W., and  
 S 19 in E. half;  
 1914 in S. rim;  
 dig pits 18x18x12 ins., N. and S. of cor. 3 ft. dist., and raise a mound of earth  $3\frac{1}{2}$  ft. base,  $1\frac{1}{2}$  ft. high, west of cor.

48.40 Dry wash, 8 lks. wide, 2 ft. banks, course S. 20° E.  
 80.00 Set an iron post 3 ft. long, 3 ins. in diam., 24 ins. in the ground for cor. of secs. 13, 18, 19 and 24, with brass cap marked,  
 T 8 N in N. half;  
 S 13, R 10 W in NW.,  
 S 18, R 9 W in NE.,  
 S 19 in SE., and  
 S 24 in SW. quadrants;  
 1914 in S. rim;  
 dig pits 18x18x12 ins., in each sec.  $5\frac{1}{2}$  ft. dist., and raise a mound of earth 4 ft. base, 2 ft. high, west of cor.

Land, level.  
 Soil, sand and gravel, 3rd rate.  
 Timber, none.  
 Undergrowth, greasewood, 4 to 6 ft. high.  
 Giant cactus, very scattering.  
 At this cor., I set off 11° 26' N. on decl. arc, and at 11h. 59m. a.m., l.m.t., I observe the sun on the meridian; the resulting lat. is 34° 02' N.

North, bet. secs. 13 and 18.  
 Over level land, through greasewood brush.

4.30 Dry wash, 6 lks. wide, 1 ft. banks, course S. 20° E.  
 21.30 Dry wash, 10 lks. wide, 2 ft. banks, course S. 20° E.  
 40.00 Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in the ground for  $\frac{1}{4}$  sec. cor., with brass cap marked,  
 $\frac{1}{4}$  S 13 in W., and  
 S 18 in E. half;  
 1914 in S. rim;  
 dig pits 18x18x12 ins., N. and S. of cor. 3 ft. dist., and raise a mound of earth  $3\frac{1}{2}$  ft. base,  $1\frac{1}{2}$  ft. high, west of cor.

45.00 Dry wash, 15 lks. wide, 2 ft. banks, course S. 30° E.  
 58.50 Ascend south slope of hill, which extends east 20.00 chs. and west 10.00 chs.  
 62.22 Top of hill, 133 ft. ascent. Descend N. slope.  
 67.13 Foot of hill. Ascend SW. slope.  
 74.20 Top of hill, 200 ft. ascent, brs. N. 50° W. and S. 50° E. Descend NE. slope.  
 80.00 Set an iron post 3 ft. long, 3 ins. in diam., in a mound of stone 4 ft. base,  $2\frac{1}{2}$  ft. high for cor. of secs. 7, 12, 13 and 18, with brass cap marked,  
 T 8 N in N. half;  
 R 10 W, S 12 in NW.,  
 R 9 W, S 7 in NE.,  
 S 18 in SE., and  
 S 13 in SW. quadrant;  
 1914 in S. rim;  
 pits impracticable. Build a mound of stone 4 ft. base, 2 ft. high, west of cor.

Land, level to 58.50 chs., thence mountainous and broken.  
 Soil, sandy and rocky, 3rd and 4th rate.  
 Timber, scattering palo verde.

West boundary of Township 8 North, Range 9 West. 21.

Chains.

Undergrowth, greasewood 4 to 5 ft.high.  
Club and giant cactus.

North, bet. secs.7 and 12.  
Descend steep rocky NE. slope.  
Foot of hill.

12.97  
13.85 Dry wash, 12 lks.wide, 1 ft.banks, course S.40°E.  
25.16 Dry wash. 15 lks.wide, 2 ft.banks, course S.40°E.  
27.95 Dry wash, 10 lks.wide, 2 ft.banks, course S.40°E.  
36.00 Dry wash, 10 lks.wide, 2 ft.banks, course S.40° E.  
40.00 Set an iron post, 3 ft.long, 1 in. in diam., 26 ins. in  
the ground for  $\frac{1}{4}$  sec.cor., with brass cap, marked,  
 $\frac{1}{4}$  S 12 in W., and  
S 7 in E.half;  
1914 in S.rim;  
dig pits 18x18x12 ins., N.and S.of cor. 3 ft. dist.,  
and raise a mound of earth  $3\frac{1}{2}$  ft. base,  $1\frac{1}{2}$  ft. high,  
west of cor.

50.50 Dry wash, 10 lks.wide, 4 ft.banks, course S.40°E.  
59.00 Old road brs.E.and W.  
64.40 Dry wash, 15 lks.wide, 4 ft.banks, course S.40°E.  
80.00 Set an iron post 3 ft.long, 3 ins. in diam., 24 ins. in  
the ground for cor.of secs.1,6,7 and 12, with brass  
cap marked,  
T 8 N in N.half;  
R 10 W S 1 in NW.,  
R 9 W S 6 in NE.,  
S 7 in SE., and  
S 12 in SW.quadrants;  
1914 in S.rim;  
dig pits 18x18x12 ins. in each sec.  $5\frac{1}{2}$  ft. dist., and  
raise a mound of earth 4 ft.base, 2 ft.high, W.of cor.  
Land, mountainous to 13.00 chs.; 13.00 to 80.00 chs.  
rolling.  
Soil, sandy and rocky, 3rd and 4th rate.  
Timber, scattering palo verde.  
Undergrowth, greasewood brush, 4 to 6 ft.high.  
Giant cactus and giant yucca palms.

North, bet. secs.1 and 6.  
Over level land, through greasewood brush.

9.60  
13.80 Old road brs.N.80°E. and west.  
29.00 Dry wash, 10 lks.wide, 1 ft.banks, course S.40°E.  
37.90 Dry wash, 15 lks.wide, 1 ft. banks, course S.40° E.  
40.00 Dry wash, 10 lks.wide, 5 ft. banks, course S.50° E.  
Set an iron post 3 ft.long, 1 in. in diam., 26 ins. in  
the ground for  $\frac{1}{4}$  sec.cor., with brass cap marked,  
 $\frac{1}{4}$  S 1 in W., and  
S 5 in E.half;  
1914 in S.rim,  
dig pits 18x18x12 ins., N.and S.of cor. 3 ft. dist.,  
and raise a mound of earth  $3\frac{1}{2}$  ft. base,  $1\frac{1}{2}$  ft. high,  
west of cor.

43.90 Dry wash, 20 lks.wide, 4 ft.banks, course S.40°E.  
56.70 Dry wash, 15 lks.wide, 6 ft.banks, course S.60°E.  
65.26 Intersect Second Standard Parallel North, 13.76 chs.W.  
of the standard cor. of Ts.9 N., Rs.9 and 10 W., which  
is an iron post 1 ft. above the ground, properly marked  
and witnessed as described by the Surveyor General.  
At point of intersection, I set an iron post 3 ft.long,  
3 ins. in diam., 24 ins. in the ground for closing  
cor.of Ts. 8 N., Rs.9 and 10 W., with brass cap,  
marked,  
1914 in S.rim;

22 West boundary of Township 8 North, Range 9 West.

Chains.

C C S of center,  
T 8 N in S. half;  
S 6 R 9 W in SE., and  
S 1, R 10 W in SW. quadrants;

dig pits 30x24x12 ins. crosswise on each line, E. and  
W. 4 ft., and S. of cor. 8 ft. dist.

Raise a mound of earth 5 ft. base; 2½ ft. high, south of  
cor.

Land, level.

Soil, sandy and gravel; 2nd and 3rd rate.

Timber, none.

Undergrowth, greasewood, 4 to 7 ft. high.

Giant cactus and yucca palms.

April 20, 1914.

W.H.T.

-----  
 local town site S. 1/4 Sec. 10, T. 8 N., R. 9 W., S. 1/4 Sec. 10, T. 8 N., R. 9 W.

W.H.T.

Survey commenced April 23, 1914, and

## South boundaries of Township 7 North, Ranges 10 and 11 West, 23

Chains.

W.K.K.

Survey commenced April 23, 1914, and executed with a Young and Sons' light mountain transit No. 8492, hereinbefore described.

April 22, 1914: I examine the adjustments of the transit, and correct the level and collimation errors; then, to test the solar apparatus by a.m. and p.m. observations on a meridian determined by observations on Polaris, I proceed as follows:

At a point near camp in sec. 29, T. 7 N., R. 10 W.; latitude,  $33^{\circ}55'00''$  N.; longitude,  $113^{\circ}19'41''$  W., at 4h. 0m. p.m., l.m.t., I set off  $33^{\circ}55'$  N. on the lat. arc;  $12^{\circ}11'$  N. on the decl. arc, and determine a meridian with the solar. I mark a point on the meridian thus determined by a tack driven in a wooden peg set firmly in the ground, 5.00 chs. north of my station.

April 23, 1914: At 5h. 27.6m. a.m., l.m.t., I observe Polaris at eastern elongation in accordance with instructions in the Manual of Surveying. As it is daylight, I lay off the azimuth of Polaris  $1^{\circ}23\frac{1}{2}'$  to the west. The meridian thus determined coincides with the meridian determined by the solar attachment on April 22.

At 8h. a.m., l.m.t., I set off  $33^{\circ}55'$  N. on the lat. arc;  $12^{\circ}24'$  N. on the decl. arc, and determine a meridian with the solar. The meridian thus determined coincides with the meridian determined by observations on Polaris. Therefore, I conclude that the adjustments of the instrument are correct.

At 10h. 0m. a.m., l.m.t., I set off  $33^{\circ}54'$  N. on the lat. arc;  $12^{\circ}25\frac{1}{2}'$  N. on the decl. arc, and determine a meridian with the solar at the original cor. of Ts. 6 and 7 N., Rs. 9 and 10 W. which is an iron post, with brass cap, marked and witnessed as described by the Surveyor General.

Thence I run,

West, on a random line, south of Ts. 7 N. Rs. 10 and 11 W., setting temp.  $\frac{1}{4}$  sec. and sec. cors. at intervals of 40.00 chs.

954.54 Fall 30 lks. north of the original cor. of Ts. 6 and 7 N., Rs. 11 and 12 W., which is a stone  $8 \times 8 \times 4$  ins. above ground, firmly set, marked and witnessed, as described by the Surveyor General.

April 23 and 24, 1914.

W. K. K.

South boundary of Township 7 North, Range 11 West.

W.K.K.

April 25, 1914.

At the original corner of Ts. 6 and 7 N., Rs. 11 and 12 W., I set off  $13^{\circ}05'$  N. on the decl. arc; and  $33^{\circ}54'$  N. on the lat. arc, and at 10h. a.m., l.m.t., determine a meridian with the solar.

Thence I run, on south bdy. of T. 7 N., R. 11 W., on true line, as follows:

N.  $89^{\circ}59'$  E., bet. secs. 6 and 31.

Over level land.

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

1914 in S. rim;

$\frac{1}{4}$  S 31 in N., and

S 6 in S. half;

dig pits  $18 \times 18 \times 12$  ins., E. and W. of cor., 3 ft. dist., and raise a mound of earth  $3\frac{1}{2}$  ft. base,  $1\frac{1}{2}$  ft. high, N. of cor.

77.27 Set an iron post 3 ft. long, 3 ins. in diam., 24 ins. in

## 24. South boundary of Township 7 North, Range 11 West.

Chains.

the ground for cor. of secs. 5, 6, 31 and 32, with brass cap marked,

T 7 N R 11 W in N., and  
T 6 N in S. half;  
S. 31 in NW.,  
S 32 in NE.,  
S 5 in SE., and  
S 6 in SW. quadrants;  
1914 in S. rim;

dig pits 18x18x12 ins. in each sec. 5½ ft. dist., and raise a mound of earth 4 ft. base, 2 ft. high, west of cor.

Land, level.

Soil, 2nd rate adobe.

Timber, none.

Undergrowth, none.

N. 89° 59' E., bet. secs. 5 and 32.

Over level land.

40.00 Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in the ground for ¼ sec. cor., with brass cap marked,  
1914 in S. rim,  
¼ S 32 in N., and  
S 5 in S. half;

dig pits 18x18x12 ins., E. and W. of cor. 3 ft. dist., and raise a mound of earth 3½ ft. base, 1½ ft. high, north of cor.

45.50 Dry wash, 40 lks. wide, 4 ft. banks, course SE.

70.00 Old road brs. NE. and SW.

80.00 Set an iron post, 3 ft. long, 3 ins. in diam., 24 ins. in the ground for cor. of secs. 4, 5, 32 and 33, with brass cap marked,

1914 in S. rim,  
T 7 N, R 11 W in N., and  
T 6 N in S. half;  
S 32 in NW., S 33 in NE.,  
S 4 in SE., and  
S 5 in SW. quadrant;

dig pits 18x18x12 ins., in each sec. 5½ ft. dist., and raise a mound of earth 4 ft. base, 2 ft. high, W. of cor.

Land, level.

Soil, adobe, 2nd rate.

Undergrowth, none.

Timber, none.

N. 89° 59' E., bet. secs. 4 and 33.

Over level land.

35.00 Old road, brs. NE. and SW.

40.00 Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in the ground for ¼ sec. cor., with brass cap marked,  
¼ S 33 in N., and  
S 4 on S. half;  
1914 in S. rim;

dig pits 18x18x12 ins., E. and W. of cor. 3 ft. dist., and raise a mound of earth 3½ ft. base, 1½ ft. high, west of cor.

80.00 Set an iron post 3 ft. long, 3 ins. in diam., 24 ins. in the ground for cor. of secs. 3, 4, 33 and 34, with brass cap marked,

1914 in S. rim;  
T 7 N, R 11 W in N., and  
T 6 N in S. half;  
S 33 in NW.,  
S 34 in NE.,  
S 3 in SE., and  
S 4 in SW. quadrants;

South boundary of Township 7 North, Range 11 West. 25.

Chains.

dig pits 18x18x12 ins. in each sec. 5 1/2 ft. dist., and raise a mound of earth 4 ft. base, 2 ft. high, west of corner.

Land, level.  
Soil, sandy and adobe, 2nd rate.  
Timber, none.  
Undergrowth, greasewood and mesquite.

N. 89° 59' E., bet. secs. 3 and 34.  
Over level land.

27.30  
40.00

Road brs. NW. and SE.  
Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in the ground for 1/4 sec. cor., with brass cap, marked, 1914 in S. rim; 1/4 S 34 in N., and S 3, on S. half;

dig pits 18x18x12 ins. E. and W. of cor., 3 ft. dist., and raise a mound of earth 3 1/2 ft. base, 1 1/2 ft. high, north of cor.

78.00  
80.00

Road brs. NW. and SE.  
Set an iron post, 3 ft. long, 3 ins. in diam., 24 ins. in the ground for cor. of secs. 2, 3, 34 and 35, with brass cap marked,

1914 in S. rim;  
T 7 N, R 11 W in N., and  
T 6 N in S. half;  
S 34 in NW.,  
S 35 in NE.,  
S 2 in SE., and  
S 3 in SW. quadrants;

dig pits 18x18x12 ins. in each sec. 5 1/2 ft. dist., and raise a mound of earth 4 ft. base, 2 ft. high, west of cor.

Land, level.  
Soil, sandy and adobe, 2nd rate.  
Undergrowth, greasewood and mesquite.

N. 89° 59' E., bet. secs. 2 and 35.  
Over level land.

40.00

Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in the ground for 1/4 sec. cor., with brass cap marked, 1914 in S. rim; 1/4 S 35 in N., and S 2 in S. half;

dig pits 18x18x12 ins., E. and W. of cor. 3 ft. dist., and raise a mound of earth 3 1/2 ft. base, 1 1/2 ft. high, north of cor.

80.00

Set an iron post 3 ft. long, 3 ins. in diam., 24 ins. in the ground for cor. of secs. 1, 2, 35 and 36, with brass cap marked,

1914 in S. rim,  
T 7 N R 11 W in N., and  
T 6 N in S. half;  
S 35 in NW.,  
S 36 in NE.,  
S 1 in SE., and  
S 2 in SW. quadrants;

dig pits 18x18x12 ins. in each sec. 5 1/2 ft. dist., and raise a mound of earth 4 ft. base, 2 ft. high, west of cor.

Land, level.  
Soil, sand and adobe, 2nd rate.  
Timber, none.  
Undergrowth.

26. South boundary of Township 7 North Range 11 West.

Chains.

- N. 89° 59' E., bet. secs. 1 and 36.  
Over level land.
- 20.00 Old road brs. NW. and SE.
- 40.00 Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in the ground for  $\frac{1}{4}$  sec. cor., with brass cap marked,  
 $\frac{1}{4}$  S 36 in N., and  
S 1 in S. half;  
1914 in S. rim;  
dig pits 18x18x12 ins., E. and W. of cor. 3 ft. dist., and raise a mound of earth  $3\frac{1}{2}$  ft. base,  $1\frac{1}{2}$  ft. high, north of cor.
- 80.00 Set an iron post 3 ft. long, 3 ins. in diam., 24 ins. in the ground, for cor. of Ts. 6 and 7 N., Rs. 10 and 11 W., with brass cap marked,  
T 7 N in N., and  
T 6 N in S. half;  
R 11 W S 36 in NW.  
R 10 W, S 31 in NE;  
S 1 in SE., and  
S 6 in SW. quadrants;  
1914 in S. rim;  
dig pits 24x24x12 ins. on each line, E., W. and N. 4 ft., and S. of cor. 8 ft. dist.  
Raise a mound of earth 5 ft. base,  $2\frac{1}{2}$  ft. high, south of cor.  
Land, level.  
Soil, sandy and adobe, 2nd rate.  
Timber, none.

Undergrowth, greasewood and mesquite.

April 25, 1914, to be continued.

To be continued.

W. K. K.

South boundary of Township 7 North, Range 10 West.

W. K. K.

April 25, 1914, continued.

At the cor. of Ts. 6 and 7 N., Rs. 9 and 10 W., just established by me, as hereinbefore described, I set off  $13^{\circ}06\frac{1}{2}'$  N. on the decl. arc, and at 11h. 58m. a.m., 1. m. t., I observe the sun on the meridian; the resulting latitude is  $33^{\circ}54'$  N.

Thence I run, on south bdy. of T. 7 N., R. 10 W., on true line, as follows:

N. 89° 59' E., bet. secs. 6 and 31.

Over level land.

- 37.27 Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in the ground for  $\frac{1}{4}$  sec. cor., with brass cap marked  
1914 in S. rim,  
 $\frac{1}{4}$  S 31 in N., and  
S 6 in S. half;  
dig pits 18x18x12 ins., E. and W. of cor., 3 ft. dist., and raise a mound of earth  $3\frac{1}{2}$  ft. base,  $1\frac{1}{2}$  ft. high, north of cor.
- 47.60 Telegraph line, brs. N. 66° E. and S. 66° W.
- 49.20 Arizona and California Railroad brs. N. 66° E. and S. 66° W.  
dist.
- Trestle No. 47, brs. S. 66° W., 1 ch. dist.
- 55.20 Old road brs. NE. and SW.
- 77.27 Set an iron post 3 ft. long, 3 ins. in diam., 24 ins. in the ground for cor. of secs. 5, 6, 31 and 32, with brass cap marked,  
1914 in S. rim;  
T 7 N R 10 W in N., and  
T 6 N in S. half;  
S 31 in NW.,  
S 32 in NE.,

South boundary of Township 7 North Range 10 West. 27.

Chains.

S 5 in SE., and  
 S 6 in SW. quadrant;  
 dig pits 18x18x12 ins., in each sec. 5½ ft. dist.,  
 and raise a mound of earth 4 ft. base, 2 ft. high, W. of  
 cor.  
 Land, level.  
 Soil, sandy and adobe, 2nd rate.  
 Undergrowth, mesquite and greasewood.  
 Club cactus.

N. 89° 59' E., bet. secs. 5 and 32.  
 Over level land.

40.00 Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in  
 the ground for ¼ sec. cor. with brass cap, marked,  
 1914 in S. rim,  
 ¼ S 32 in N., and  
 S 5 in S. half;  
 dig pits 18x18x12 ins., E. and W. of cor. 3 ft. dist.,  
 and raise a mound of earth 3½ ft. base, 1½ ft. high,  
 north of cor.

80.00 Set an iron post 3 ft. long, 3 ins. in diam., 24 ins. in  
 the ground for cor. of secs. 4, 5, 32 and 33, with brass  
 cap marked,

1914 in S. rim;  
 T 7 N R 10 W in N., and  
 T 6 N in S. half;  
 S 32 in NW.;  
 S 33 in NE.  
 S 4 in SE., and  
 S 5 in SW. quadrants;

dig pits 18x18x12 ins. in each sec. 5½ ft. dist., and  
 raise a mound of earth 4 ft. base, 2 ft. high, west of  
 corner.  
 Land, level.  
 Soil, sandy adobe, 2nd rate.  
 Undergrowth, dense greasewood.  
 Timber, scattering mesquite and palo verde.

N. 89° 59' E., bet. secs. 4 and 33.  
 Over level land.

40.00 Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in  
 the ground, for ¼ sec. cor., with brass cap marked,  
 1914 in S. rim;  
 ¼ S 33 in N., and  
 S 4 in S. half;  
 dig pits 18x18x12 ins., E. and W. of cor., 3 ft. dist.,  
 and raise a mound of earth 3½ ft. base, 1½ ft. high,  
 north of cor.

80.00 Set an iron post 3 ft. long, 3 ins. in diam., 24 ins. in  
 the ground for cor. of secs. 3, 4, 33 and 34, with brass  
 cap marked,

1914 in S. rim;  
 T 7 N, R 10 W in N., and  
 T 6 N in S. half;  
 S 33 in NW.;  
 S 34 in NE.  
 S 3 in SE., and  
 S 4 in SW. quadrant;

dig pits 18x18x12 ins., in each sec. 5½ ft. dist.,  
 and raise a mound of earth 4 ft. base, 2 ft. high,  
 west of cor.  
 Land, level.  
 Soil, sand and adobe, 2nd rate,  
 Timber, scrub palo verde and catsclaw.  
 Undergrowth, greasewood.

28 South boundary of Township 7 North Range 10 West.

Chains.

- N 89°59'E., bet. secs.3 and 34.  
Over level land.
- 40.00 Set an iron post, 3 ft.long, 1 in.in diam., 18 ins. in the ground (could not set deeper for solid stone) build mound of stone 2 ft.base, 1 ft. high, around post for  $\frac{1}{4}$  sec.cor., with brass cap marked,  
1914 in S.rim;  
 $\frac{1}{4}$  S 34 in N., and  
S 3 in S.half; from which,  
A palo verde, 10 ins. in diam., brs.N.88 $\frac{1}{2}$ °E.,  
180 lks.dist., marked  $\frac{1}{4}$  S 34 B T.
- No other trees in limits; dig pits 18x18x12 ins., E. and W of cor. 3 ft. dist., and raise a mound of earth 3 $\frac{1}{2}$  ft. base, 1 $\frac{1}{2}$  ft.high, N.of cor.
- 80.00 Set an iron post 3 ft.long, 3 ins. in diam., 18 ins. in the ground for cor.of secs. 2,3,34 and 35. Could not set deeper for solid stone; build mound of stone 2 ft.base, 1 ft.high around post, with brass cap marked,  
1914 in S.rim,  
T 7 N R 10 W in N., and  
T 6 N in S.half;  
S 34 in NW.,  
S 35 in NE.,  
S 2 in SE., and  
S 3 in SW.quadrant; from which,  
A palo verde, 8 ins. in diam., brs. N.84 $\frac{1}{2}$ °W.,  
161 lks.dist., marked T 7 N R 10 W S 34 B T.  
A palo verde, 6 ins. in diam., brs.S.59°W.,89 lks.dist., marked T 6 N R 10 W S 3 B T.  
A palo verde, 6 ins. in diam., brs.N.35 $\frac{1}{2}$ °E.,  
120 lks.dist., marked T 7 N R 10 W S 35 B T.  
A palo verde, 8 ins. in diam., brs.S.58 $\frac{3}{4}$ °E.,  
180 lks.dist., marked T 6 N R 10 W S 2 B T.
- Land,nearly level.  
Soil, sandy and adobe, 2nd rate.  
Timber, palo verde.  
Undergrowth, greasewood.

- 
- 33.00 N. 89° 59' E., bet. secs.2 and 35.  
Old road brs.N.and S.
- 39.70 Dry wash, 25 lks.wide, 8 ft.banks, course NW.
- 40.00 Set an iron post 3 ft.long, 1 in. in diam., 26 ins. in the ground for  $\frac{1}{4}$  sec.cor., with brass cap marked,  
1914 in S.rim,  
 $\frac{1}{4}$  S 35 in N.,and  
S 2 on S.half; from which,  
A palo verde, 8 ins. in diam., brs.S.11 $\frac{1}{2}$ ° W.,  
42 lks.dist., marked  $\frac{1}{4}$  S 2 B T.  
A palo verde, 6 ins. in diam., brs. N.54°10' W., 133 lks.dist., marked  $\frac{1}{4}$  S 35 B T.
- 70.00 Dry wash, 50 lks.wide, 10 ft.banks, course NW.  
Ascend rocky broken NW. slope of mountain.
- 80.00 Set an iron post 3 ft.long, 3 ins. in diam., in a mound of stone 4 ft.base, 2 ft.high for cor.of secs.1,2,35 and 36, with brass cap marked,  
1914 in S.rim;  
T 7 N R 10 W in N., and  
T 6 N in S.half;  
S 35 in NW.,  
S 36 in NE.,  
S 1 in SE.,and  
S 2 in SW.quadrants;  
pits impracticable. Build a mound of stone 4 ft. base, 3 ft.high, W.of cor.  
Land, mountainous.

South boundary of Township 7 North, Range 10 West. 29.

Chains.

Soil, rocky, 4th rate.  
Timber, palo verde.  
Undergrowth, greasewood.

- 16.30 N.89° 59'E., bet. secs.1 and 36.  
Ascend steep rocky rough NW. slope.  
Top of ridge, brs.N. and SW.  
Descend steep east slope of mountain.
- 25.00 Foot of descent.  
Dry wash, 30 lks.wide, 3 ft.banks, course NE.
- 30.00 Dry wash, 30 lks.wide, 3 ft.banks, course north.
- 40.00 Set an iron post 3 ft.long, 1 in. in diam., 12 ins. in the ground (could not set deeper for solid rock); build mound of stone 3 ft.base, 1 ft.high around post for 1/4 sec.cor., with brass cap marked,  
1914 in S.rim;  
1/4 S 36 in N., and  
S 1 in S.half; from which,  
A palo verde, 6 ins, in diam., brs.N.52°W.,  
118 lks.dist., marked 1/4 S 36 B T.  
A palo verde, 6 ins. in diam., brs.S.51°E.,110 lks.dist., marked 1/4 S 1 B T.
- 44.00 Ravine, 50 lks.wide, 15 ft.deep, course north.
- 75.00 Dry wash, 25 lks.wide, 2 ft.banks, course SW.  
Ascend rocky west slope of mountain.
- 80.00 Intersect original cor. of Ts.6 and 7 N, Rs. 9 and 10 W., which is an iron post 3 ins. in diam., marked and witnessed as described by the Surveyor General.  
Land, mountainous.  
Soil, rocky, 4th rate.  
Timber, scattering palo verde.

April 25, 1914.  
W. K. K.

West boundary of Township 7 North, Range 11 West.

W.K.K.

April 29, 1914:

At 9h. a.m., l.m.t., I set off 14°21' N.on the decl.arc; 33°54' N. on the lat.arc; and determine a meridian with the solar at the original cor.of Ts.6 and 7 N., Rs.11 and 12 W., which is a stone 8x8x4 ins. above ground, firmly set, marked and witnessed as described by the Surveyor General.

Thence I run, on west bdy.of T.7 N., R.11 W., on true line as follows:

North, bet. secs.31 and 36.

Over level land.

- 40.00 Set an iron post, 3 ft.long, 1 in. in diam., 26 ins. in the ground, for 1/4 sec.cor., with brass cap,  
1/4 S 36 in W., and  
S 31 in E.half;  
1914 in S.rim;  
dig pits 18x18x12 ins., N.and S.of cor. 3 ft. dist., and raise a mound of earth 3 1/2 ft. base, 1 1/2 ft.high, west of cor.

74.20 Old road, brs.E.and W.

- 80.00 Set an iron post 3 ft.long, 3 ins. in diam., 24 ins. in the ground for cor.of secs.25,30,31 and 36, with brass cap, marked,

T 7 N in N.half;  
R 12 W S 25 in NW.,  
R 11 W S 30 in NE.,  
S 31 in SE., and  
S 36 in SW.quadrant;

30. Westh boundary of Township 7 North, Range 11 West.  
Chains.

- 1914 in S.rim;  
dig pits 18x18x12 ins, in each sec. 5 $\frac{1}{2}$  ft. dist., and  
raise a mound of earth, 4 ft. base, 2 ft. high, west  
of cor.  
Land, level.  
Soil, sandy loam, 2nd rate.  
Undergrowth, greasewood.
- 
- North, bet. secs. 25 and 30.  
Over level land.  
40.00 Set an iron post, 3 ft. long, 1 in. in diam., 26 ins.  
in the ground for  $\frac{1}{4}$  sec. cor., with brass cap marked  
 $\frac{1}{4}$  S 25 on W., and  
S 30 on E. half;  
1914 in S.rim;  
dig pits 18x18x12 ins., N. and S. of cor., 3 ft. dist.,  
and raise a mound of earth 3 $\frac{1}{2}$  ft. base, 1 $\frac{1}{2}$  ft. high,  
west of cor.  
80.00 Set an iron post 3 ft. long, 3 ins. in diam., 24 ins. in  
the ground for corner of secs. 19, 24, 25 and 30, with  
brass cap, marked,  
T 7 N in N. half;  
R 12 W S 24 in NW.,  
R 11 W, S 19 in NE.,  
S 30 in SE., and  
S 25 in SW. quadrants;  
1914 in S.rim;  
dig pits 18x18x12 ins. in each sec. 5 $\frac{1}{2}$  ft. dist., and  
raise a mound of earth 4 ft. base, 2 ft. high, west of  
corner.  
Land, level.  
Soil, sandy loam, 2nd rate.  
Timber, none.  
Undergrowth, greasewood.
- 
- North, bet. secs. 19 and 24.  
Over level land.  
26.50 Dry wash, 10 links wide, 1 $\frac{1}{2}$  ft. banks, course SE.  
40.00 Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in  
the ground for  $\frac{1}{4}$  sec. cor., with brass cap marked,  
 $\frac{1}{4}$  S 24 in W., and  
S 19 in E. half;  
1914 in S.rim;  
dig pits 18x18x12 ins., N. and S. of cor. 3 ft. dist.,  
and raise a mound of earth 3 $\frac{1}{2}$  ft. base, 1 $\frac{1}{2}$  ft. high,  
west of cor.  
47.50 Dry wash, 20 lks. wide, 1 ft. banks, course SE.  
80.00 Set an iron post 3 ft. long, 3 ins. in diam., 24 ins. in  
the ground for cor. of secs. 13, 18, 19 and 24, with  
brass cap marked,  
T 7 N in N. half;  
R 12 W S 13 in NW.,  
R 11 W S 18 in NE.,  
S 19 in SE., and  
S 24 in SW. quadrants;  
1914 in S.rim;  
dig pits 18x18x12 ins., in each sec. 5 $\frac{1}{2}$  ft. dist.,  
and raise a mound of earth 4 ft. base, 2 ft. high, west  
of cor.  
Land, level.  
Soil, sandy loam, 2nd rate.  
Undergrowth, greasewood.  
At this cor., I set off 14° 23 $\frac{1}{2}$ ' N. on the decl. arc; and  
at 11h. 57 $\frac{1}{2}$ m. a.m.; l.m.t., observe the sun on the mer.;

the resulting lat. is 33° 56½'N.

North, bet. secs. 13 and 18.  
Over level land.

2.00 Dry wash, 15 lks.wide, 2 ft.banks, course SE.  
28.00 Dry wash, 15 lks.wide, 1 ft. banks, course SE.  
40.00 Set an iron post 3 ft.long, 1 in. in diam., 26 ins. in the ground for ¼ sec.cor., with brass cap marked,  
    ¼ S 13 in W., and  
    S 18 in E.half;  
    1914 in S.rim;  
    dig pits 18x18x12 ins., N.and S.of cor., 3 ft. dist., and raise a mound of earth, 3½ ft. base, 1½ ft. high, west of cor.

44.00 Dry wash, 75 lks.wide, 2 ft.banks, course SE.  
57.00 Ravine, 100 lks.wide, 8 ft. deep, course SE.  
66.00 Dry wash, 10 lks.wide, 1 ft.banks, course S.10°E.  
69.00 Dry wash, 50 lks.wide, 1 ft. banks, course S.20°E.  
80.00 Set an iron post 3 ft.long, 3 ins. in diam., 12 ins. in the ground (could not set deeper for solid rock) build mound of stone, 3 ft. base, 1½ ft. high, around post for cor. of secs. 7,12,13 and 18, with brass cap, marked,  
    T 7 N in N.half;  
    R 12 W S 12 in NW.,  
    R 11 W S 7 in NE.  
    S 18 in SE., and  
    S 13 in SW. quadrants;  
    1914 in S.rim; from which,  
    An ironwood, 18 ins. in diam., brs.N.55°55'E., 131 lks.dist., marked T 7 N R 11 W S 7 BT.  
    An ironwood, 30 ins. in diam., brs.S.33¼°E., 182 lks.dist., marked T 7 N R 11 W S 18 BT.  
    An ironwood, 18 ins. in diam., brs.S.51°W., 175 lks.dist., marked T 7 N R 12 W S 13 B T.  
    An ironwood, 20 ins. in diam., brs.N.10°55'W., 185 lks.dist., marked T 7 N R 12 W S 12 BT.

Land, nearly level.  
Soil, sandy, gravelly surface, 3rd rate.  
Undergrowth, greasewood.  
Timber, ironwood and palo verde.

North, bet. secs. 7 and 12.  
Over gently rolling land, and SE. slope.

1.50 Dry wash, 50 lks.wide, 1 ft. banks, course S.10°E.  
40.00 Set an iron post 3 ft.long, 1 in. in diam., 12 ins. in the ground (could not set deeper for solid stone); build mound of stone 3 ft.base, 1½ ft. high for ¼ sec.cor., with brass cap marked,  
    ¼ S 12 in W., and  
    S 7 in E.half;  
    1914 in S.rim; from which,  
    A palo verde, 5 ins. in diam., brs.N.38°E., 22 lks.dist., marked ¼ S 7 B T.

No other trees available. Build mound of stone 3 ft. base, 2 ft.high, west of cor. Pits impracticable.

54.00 Enter dry wash 100 ft.wide, 6 ft. banks, course S'2°E. Follow up wash.  
57.20 Road brs.E.and W.  
69.00 Leave dry wash, course S.2°E.  
80.00 Set an iron post, 3 ft.long, 3 ins. in diam., in mound of stone 3 ft.base, 2½ ft.high for cor.of secs.1,6, 7 and 12, with brass cap marked,  
    T 7 N in N.half;  
    R 12 W S 1 in NW.,

32 West boundary of Township 7 North, Range 11 West.  
Chains.

R 11 W S 6 in NE.,  
S 7 in SE., and  
S 12 in SW. quadrants;  
1914 in S. rim;

pits impracticable. Build a mound of stone 3 ft. base,  
3 ft. high, west of cor.

Land, rolling.

Soil, sandy and rocky, 4th rate.

Undergrowth, greasewood.

Timber, ironwood and palo verde.

Giant cactus.

North, between secs. 1 and 6.

Over gently rolling land. Land, sloping to the SE.

12.00 Dry wash in ravine, 75 lks. wide, 4 ft. banks, course S.  
10° E.

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

S 6 in E. half;

1914 in S. rim;

pits impracticable. Build a mound of stone 3 ft.  
base, 3 ft. high, west of cor.

41.50 Ravine, 100 lks. wide, 15 ft. deep, course SE.

45.50 Ravine, 150 lks. wide, 20 ft. deep, course SE.

62.00 Ascend steep SE. slope.

65.00 Top of ascent, thence along east slope.

67.50 Descend over NE. slope.

70.00 Foot of descent; thence rolling.

80.00 Set an iron post, 3 ft. long, 3 ins. in diam., in a mound  
of stone 3 ft. base, 2 $\frac{1}{2}$  ft. high for cor. of Ts. 7 and 8  
N., Rs. 11 and 12 W., with brass cap, marked,

1914 in S. rim,

T 8 N in N. half;

R 12 W S 36 in NW.,

R 11 W, S 31 in NE.,

S 6 in SE., and

S 1 in SW. quadrant;

T 7 N in S. half;

pits impracticable. Build a mound of stone 3 ft.  
base, 3 ft. high, south of cor.

Land, rocky and rolling.

Soil, rocky, 4th rate.

Timber, iron.

Undergrowth, greasewood.

Giant cactus.

April 29, 1914.

W.K.K.

Chains.

W.H.T.  
 April 25, 1914:  
 At 8h. a.m., l.m.t., I set off 13°04' N. on the decl. arc;  
 33°54' N. on the lat. arc; and determine a meridian  
 with the solar at the cor. of Ts. 6 and 7 N., Rs. 10  
 and 11 W., established by W.K. Kierulff, U.S. Transitman,  
 as hereinbefore described.

Thence I run, on east bdy. of T. 7 N., R. 11 W., on a true  
 line, as follows:

North, bet. secs. 31 and 36.

Over level land, through greasewood brush.  
 40.00 Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in  
 the ground for  $\frac{1}{4}$  sec. cor., with brass cap marked,  
 $\frac{1}{4}$  S 36 in W., and  
 S 31 in E. half;

1914 in S. rim;  
 dig pits 18x18x12 ins., N. and S. of cor. 3 ft. dist.,  
 and raise a mound of earth  $3\frac{1}{2}$  ft. base,  $1\frac{1}{2}$  ft. high,  
 west of cor.

59.30 Road brs. N. 80°W. and S. 80°E.

80.00 Set an iron post 3 ft. long, 3 ins. in diam., 24 ins.  
 in the ground for cor. of secs. 25, 30, 31 and 36, with  
 brass cap, marked,

T 7 N in N. half;  
 R 11 W S 25 in NW.,  
 R 10 W S 30 in NE.,  
 S 31 in SE., and  
 S 36 in SW. quadrants;  
 1914 in S. rim;

dig pits 18x18x12 ins., in each sec.  $5\frac{1}{2}$  ft. dist.,  
 and raise a mound of earth 4 ft. base, 2 ft. high, W.  
 of cor.

Land, level.  
 Soil, sandy, 2nd rate.  
 No timber.  
 Undergrowth, greasewood and mesquite brush 4 to 10 ft.  
 high.  
 Club cactus.

North, bet. secs. 25 and 30.

Over level land, through greasewood brush.

35.00 Old road brs. N. 80°E. and S. 80°W.

Leave brush.

40.00 Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in  
 the ground for  $\frac{1}{4}$  sec. cor., with brass cap, marked,  
 $\frac{1}{4}$  S 25 in W., and  
 S 30 in E. half;

1914 in S. rim;  
 dig pits 18x18x12 ins., N. and S. of cor. 3 ft. dist.,  
 and raise a mound of earth  $3\frac{1}{2}$  ft. base,  $1\frac{1}{2}$  ft. high,  
 west of cor.

80.00 Having no 3-inch diam. post, I set an iron post 3 ft.  
 long, 2 ins. in diam., 24 ins. in the ground for  
 corner of sections 19, 24, 25 and 30, with brass cap  
 marked,

T 7 N in N. half;  
 R 11 W, S 24 in NW.,  
 R 10 W S 19 in NE.,  
 S 30 in SE., and  
 S 25 in SW. quadrants;  
 1914 in S. rim;

dig pits, 18x18x12 ins., in each sec.  $5\frac{1}{2}$  ft. dist.,  
 and raise a mound of earth 4 ft. base, 2 ft. high, west  
 of cor.

Land, level.  
 Soil, sandy, 2nd rate.

34 East boundary of Township 7 North, Range 11 West  
Chains.

No timber.  
Undergrowth, greasewood and mesquite brush 4 to 6 ft.  
high on south 35.00chs. Mesquite brush, very scatter-  
ing on north 45 chs.  
Club cactus.

-----  
North, bet. secs. 19 and 24.  
Over level land.

40.00 Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in  
the ground for  $\frac{1}{4}$  sec. cor., with brass cap marked,  
     $\frac{1}{4}$  S 24 in W. half;  
    S 19 in E. half;  
    1914 in S. rim;  
dig pits 18x18x12 ins., N. and S. of cor. 3 ft. dist.,  
and raise a mound of earth  $3\frac{1}{2}$  ft. base,  $1\frac{1}{2}$  ft. high,  
west of cor.  
80.00 Having no 3-inch diam. post, I set an iron post 3 ft. long,  
2 ins. in diam., 24 ins. in the ground for cor. of  
secs. 13, 18, 19 and 24; with brass cap marked,  
    T 7 N in N. half;  
    R 11 W S 13 in NW.,  
    R 10 W S 18 in NE.,  
    S 19 in SE., and  
    S 24 in SW. quadrants;  
    1914 in S. rim;  
dig pits 18x18x12 ins., in each sec.  $5\frac{1}{2}$  ft. dist.,  
and raise a mound of earth 4 ft. base, 2 ft. high, west  
of cor.  
Land, level.  
Soil, adobe, 2nd rate.  
No timber.  
Undergrowth, scattering mesquite and sage brush.  
Club cactus.

-----  
North, bet. secs. 13 and 18.  
Over level land.

25.00 Enter greasewood and mesquite brush.  
40.00 Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in  
the ground for  $\frac{1}{4}$  sec. cor., with brass cap marked,  
     $\frac{1}{4}$  S 13 in W., and  
    S 18 in E. half;  
    1914 in S. rim;  
dig pits 18x18x12 ins., N. and S. of cor., 3 ft. dist.,  
and raise a mound of earth  $3\frac{1}{2}$  ft. base,  $1\frac{1}{2}$  ft. high,  
west of cor.  
80.00 Having no 3-inch diam. post, I set an iron post, 3 ft.  
long, 2 ins. in diam., 24 ins. in the ground, for  
cor. of secs. 7, 12, 13 and 18, with brass cap marked,  
    T 7 N in N. half;  
    R 11 W S 12 in NW.,  
    R 10 W S 7 in NE.,  
    S 18 in SE., and  
    S 13 in SW. quadrants;  
    1914 in S. rim;  
dig pits 18x18x12 ins., in each sec.  $5\frac{1}{2}$  ft. dist., and  
raise a mound of earth 4 ft. base, 2 ft. high, west  
of cor.  
Land, level.  
Soil adobe and sand, 2nd rate.  
No timber.  
Undergrowth, mesquite and greasewood brush 4 to 10 ft.  
high on north 55 chs.  
Club cactus.

Chains.

At this cor., I set off 13°06½' N. on the decl. arc; and at 11h. 58m. a.m., l.m.t., I observe the sun on the meridian; the resulting latitude is 33° 57' N.

North, bet. secs. 7 and 12.  
Over level land.

40.00 Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in the ground for ¼ sec. cor., with brass cap, marked  
¼ S 12 in W., and  
S 7 in E. half;  
1914 in S. rim;  
dig pits 18x18x12 ins., N. and S. of cor., 3 ft. dist., and raise a mound of earth 3½ ft. base, 1½ ft. high, west of cor.

46.00 Dry wash, 10 lks. wide, 1 ft. banks, course SW.

67.20 Dry wash, 10 lks. wide, 1 ft. banks, course SE.

70.30 Old road brs. N. 50° E. and S. 50° W.

80.00 Having no 3-inch diam. post, I set an iron post 3 ft. long, 2 ins. in diam., 24 ins. in the ground for cor. of secs. 1, 6, 7 and 12, with brass cap marked,

T 7 N in N. half;  
R 11 W S 1 in NW.,  
R 10 W S 6 in NE.,  
S 7 in SE., and  
S 12 in SW. quadrants;  
1914 in S. rim;

dig pits 18x18x12 ins., in each sec. 5½ ft. dist., and raise a mound of earth 4 ft. base, 2 ft. high, west of cor.

Land, level.

Soil, sandy, 2nd rate.

No timber.

Undergrowth, greasewood and mesquite brush 4 to 8 ft. high.

Native grass.

North, bet. secs. 1 and 6.  
Over level land.

40.00 Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in the ground for ¼ sec. cor., with brass cap marked,

¼ S 1 in W., and  
S 6 in E. half;  
1914 in S. rim;

dig pits 18x18x12 ins., N. and S. of cor., 3 ft. dist., and raise a mound of earth 3½ ft. base, 1½ ft. high, west of cor.

41.00 Dry wash, 20 lks. wide, 1 ft. banks, course S. 10° E.

47.50 Dry wash, 15 lks. wide, 1 ft. banks, course S. 10° E.

54.00 Dry wash, 20 lks. wide, 1 ft. banks, course S. 20° E.

60.00 Dry wash, 15 lks. wide, 1 ft. banks, course S. 20° E.

80.00 Set an iron post, 3 ft. long, 3 ins. in diam., 24 ins. in the ground for cor. of Ts. 7 and 8 N., Rs. 10 and 11 W., with brass cap, marked,

1914 in S. rim;  
T 8 N in N., and  
T 7 N in S. half;  
R 11 W S 36 in NW.,  
R 10 W, S 31 in NE.,  
S 6 in SE., and  
S 1 in SW. quadrants;

dig pits 24x24x12 ins. on each line, N., E. and W., 4 ft., and S. of cor. 8 ft. dist. Raise a mound of earth 5 ft. base, 2½ ft. high, south of cor.

36 East boundary of Township 7 North, Range 11 West.

Chains.

Land, level.  
Soil, sandy, 2nd rate.  
No timber.  
Undergrowth, greasewood and mesquite brush 4 to 6 ft. high.  
April 25, 1914.  
W.H.T.

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North boundary of Township 7 North, Range 10 West.  
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W.H.T.

April 23, 1914:

At 10h. a.m., l.m.t., I set off  $12^{\circ}25\frac{1}{2}'$  N. on decl. arc;  
 $33^{\circ}59'$  N. on the lat. arc, and determine a meridian  
with the solar at the original cor. of Ts. 7 and 8 N.,  
Rs. 9 and 10 W., which is an iron post, with brass cap,  
marked and witnessed as described by the Surveyor  
General.

Thence I run,

West, on a random line, along the north bdy. of Tp. 7 N.,  
R. 10 W., setting temp.  $\frac{1}{4}$  sec. and sec. cors. at inter-  
vals of 40.00 chs.

120.00 Temp.  $\frac{1}{4}$  sec. cor., bet. secs. 2 and 35. At this point I  
I set off  $12^{\circ}27'$  N. on decl. arc, and at 11h. 58m. a.m.,  
l.m.t., I observe the sun on the meridian; the re-  
sulting lat. is  $33^{\circ}59'$  N.

Continue line and measurement

476.76 Fall 48 lks. north of the cor. of Ts. 7 and 8 N., Rs. 10  
and 11 W., established by me, as hereinbefore de-  
scribed.

The falling answers to a correction of  $0^{\circ}03'$ , or 8 lks.  
south per mile.

April 23 and 26, 1914.

W. H. T.

W. H. T.

April 27, 1914: At 8h. a.m., l.m.t., at the cor. of Ts.  
7 and 8 N., Rs. 10 and 11 W., established by me, as  
hereinbefore described, I set off  $33^{\circ}59'$  N. on the  
lat. arc;  $13^{\circ}43'$  N. on the decl. arc, and determine  
a meridian with the solar.

Thence I run, on north bdy. of Tp. 7 N., R. 10 W., on  
true line, as follows:

S.  $89^{\circ}57'$  W., bet. secs. 1 and 36.

Over level land, through dense growth greasewood and  
mesquite brush.

40.00 Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in  
the ground for  $\frac{1}{4}$  sec. cor., with brass cap, marked,  
1914 in S. rim;  
 $\frac{1}{4}$  S 36 in N., and  
S 1 in S. half;

dig pits 18x18x12 ins., E. and W. of cor. 3 ft. dist.,  
and raise a mound of earth  $3\frac{1}{2}$  ft. base,  $1\frac{1}{2}$  ft. high,  
north of cor.

59.95 Dry wash, 8 lks. wide, 1 ft. banks, course S.  $20^{\circ}$  E.

80.00 Set an iron post 3 ft. long, 3 ins. in diam., 24 ins. in  
the ground for cor. of secs. 1, 2, 35 and 36, with  
brass cap marked,

1914 in S. rim;

T 8 N, R 10 W in N., and

T 7 N in S. half;

S 35 in NW.,

S 36 in NE.,

S 1 in SE.; and

S 2 in SW. quadrants;

dig pits 18x18x12 ins., in each sec.  $5\frac{1}{2}$  ft. dist., and

North boundary of Township 7 North, Range 10 West. 37.

Chains.

raise a mound of earth 4 ft. base, 2 ft. high, west of corner.  
 Land, level.  
 Soil, sandy, 2nd rate.  
 No timber.  
 Undergrowth, greasewood and mesquite brush, 4 to 8 ft. high.

20.40 S. 89° 57' W., bet. secs. 2 and 35.  
 40.00 Over level land, through greasewood brush.  
 Dry wash, 6 lks. wide, 1 ft. banks, course S. 20° E. in  
 Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in  
 the ground for  $\frac{1}{4}$  sec. cor., with brass cap marked,  
 1914 in S. rim,  
 $\frac{1}{4}$  S 35 in N., and  
 S 2 in S. half;  
 dig pits 18x18x12 ins., E. and W. of cor. 3 ft. dist.,  
 and raise a mound of earth 3 $\frac{1}{2}$  ft. base, 1 $\frac{1}{2}$  ft. high,  
 north of cor.  
 63.50 Dry wash, 105 lks. wide, 2 ft. banks, course south.  
 80.00 Set an iron post, 3 ft. long, 3 ins. in diam., 24 ins.  
 in the ground for cor. of secs. 2, 3, 34 and 35, with brass  
 cap marked,  
 1914 in S. rim;  
 T 8 N R 10 W in N., and  
 T 7 N in S. half;  
 S 34 in NW.,  
 S 35 in NE.,  
 S 2 in SE., and  
 S 3 in SW. quadrants;  
 dig pits 18x18x12 ins., in each sec. 5 $\frac{1}{2}$  ft. dist.,  
 and raise a mound of earth 4 ft. base, 2 ft. high, west  
 of cor.  
 Land, level.  
 Soil, sandy, 2nd rate.  
 No timber.  
 Undergrowth, greasewood and mesquite brush, 4 to 6 ft.  
 high.

40.00 S. 89° 57' W., bet. secs. 3 and 34.  
 Over level land.  
 Set an iron post 3 ft. long, 1 in. in diam., 26 ins.  
 in the ground for  $\frac{1}{4}$  sec. cor., with brass cap marked,  
 1914 in S. rim,  
 $\frac{1}{4}$  S 34 in N., and  
 S 3 in S. half;  
 dig pits 18x18x12 ins., E. and W. of cor., 3 ft. dist.,  
 and raise a mound of earth 3 $\frac{1}{2}$  ft. base, 1 $\frac{1}{2}$  ft. high,  
 north of cor.  
 56.00 Dry wash, 6 lks. wide, 1 ft. banks, course south.  
 80.00 Set an iron post, 3 ft. long, 3 ins. in diam., 24 ins.  
 in the ground for cor. of secs. 3, 4, 33 and 34, with  
 brass cap marked,  
 1914 in S. rim;  
 T 8 N, R 10 W in N., and  
 T 7 N on S. half;  
 S 33 in NW.  
 S 34 in NE.;  
 S 3 in SE., and  
 S 4 in SW. quadrants;  
 dig pits 18x18x12 ins., in each sec. 5 $\frac{1}{2}$  ft. dist.,  
 and raise a mound of earth 4 ft. base, 2 ft. high,  
 west of cor.  
 Land level.

38 North boundary of Township 7 North, Range 10 West.

Chains

Soil, sandy, 2nd rate.

No timber.

Undergrowth, greasewood and mesquite brush, 4 to 6 ft. high.

S. 89° 57' W., bet. secs. 4 and 33.

Over level land.

12.20 Dry wash, 20 lks. wide, 2 ft. banks, course south.

15.70 Dry wash, 25 lks. wide, 2 ft. banks, course S. 10° E.

19.30 Dry wash, 55 lks. wide, 2½ ft. banks, course S. 5° W.

40.00 Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in

the ground for ¼ sec. cor., with brass cap marked,

1914 in S. rim;

¼ S 33 in N., and

S 4 in S. half;

dig pits 18x18x12 ins., E. and W. of cor., 3 ft. dist.

and raise a mound of earth 3½ ft. base, 1½ ft. high,

north of cor.

47.40 Dry wash, 25 lks. wide, 2 ft. banks, course S. 5° E.

53.45 Dry wash, 20 lks. wide, 2 ft. banks, course south.

80.00 Having no 3-inch diam. post, I set an iron post, 3 ft.

long, 2 ins. in diam., 24 ins. in the ground, for cor.

of secs. 4, 5, 32 and 33, with brass cap, marked,

1914 in S. rim,

T 8 N R 10 W in N., and

T 7 N on S. half;

S 32 in NW.,

S 33 in NE.,

S 4 in SE., and

S 5 in SW. quadrants;

dig pits 18x18x12 ins., in each sec. 5½ ft. dist., and

raise a mound of earth 4 ft. base, 2 ft. high, west of

cor.

Land, level.

Soil, sandy, 2nd rate.

No timber.

Undergrowth, greasewood brush.

S. 89° 57' W., bet. secs. 5 and 32.

Over level land.

18.70 Dry wash, 40 lks. wide, 2 ft. banks, course S. 10° E.

29.85 Dry wash, 10 lks. wide, 2 ft. banks, course south.

40.00 Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in

the ground, for ¼ sec. cor., with brass cap marked,

1914 in S. rim;

¼ S 32 in N., and

S 5 in S. half;

dig pits 18x18x12 ins., E. and W. of cor. 3 ft. dist.,

and raise a mound of earth 3½ ft. base, 1½ ft. high,

N. of cor.

76.70 Dry wash, 15 lks. wide, 1½ ft. banks, course S. 10° E.

78.80 Dry wash, 12 lks. wide, 1½ ft. banks, course S. 20° E.

80.00 Having no 3-inch diam. post, I set an iron post 3 ft.

long, 2 ins. in diam., 24 ins. in the ground for cor.

of secs. 5, 6, 31 and 32, with brass cap marked,

1914 in S. rim;

T 8 N R 10 W in N., and

T 7 N in S. half;

S 31 in NW.,

S 32 in NE.,

S 5 in SE., and

S 6 in SW. quadrants;

dig pits 18x18x12 ins. in each sec. 5½ ft. dist.,

and raise a mound of earth 4 ft. base, 2 ft. high, west

of cor.

Land, level.

North boundary of Township 7 North, Range 10 West. 39

Chains.

Soil, sandy 2nd rate.  
Timber, scattering mesquite.  
Undergrowth, greasewood and mesquite brush, 4 to 6 ft. high.  
Club cactus.

s.89°57'W., bet. secs.6 and 31.  
Over level land.

10.75 Dry wash, 40 lks.wide, 2 ft.banks, course S.  
16.00 Old road brs.N.30°E. and S.30°W.  
40.00 Set an iron post, 3 ft.long, 1 in. in diam., 26 ins. in the ground for  $\frac{1}{4}$  sec.cor., with brass cap marked,  
1914 in S.rim,  
 $\frac{1}{4}$  S 31 in N., and  
S 6 in S.half;  
dig pits 18x18x12 ins., E.and W.of cor. 3 ft. dist., and raise a mound of earth  $3\frac{1}{2}$  ft. base,  $1\frac{1}{2}$  ft. high, north of cor.

67.40 Dry wash 10 lks. wide, 1 ft.banks, course S.  
74.60 Dry wash, 40 lks.wide, 2 ft.banks, course S.  
76.76 Intersect corner of Ts, 7 and 8 N., Rs.10 and 11 W., established by me, as hereinbefore described.  
Land,level.  
Soil, sandy, 2nd rate.  
Timber, scattering mesquite.  
Undergrowth, greasewood and mesquite brush, 4 to 6 ft. high.  
Club cactus.

April 27,1914.  
W.H.T.

North boundary of Township 7 North, Range 11 West.

W.H.T.  
April 24,1914:  
At 8h. a.m.,l.m.t., I set off 12°44' N.on the decl.arc; 33°59'N. on the lat.arc, and determine a meridian with the solar at the cor.of Ts.7.and 8 N., Rs. 10 and 11 W., established by me, as hereinbefore described.  
Thence I run,  
West, on a random line, along the north bdy. of T.7 N., R.11 W., setting temp. $\frac{1}{4}$  sec. and sec.cors.at intervals of 40.00 chs.  
360.00 Temp. $\frac{1}{4}$  sec.cor. to secs.5 and 32. At this point, I set off 12°47'N. on the decl.arc, and at 11h.58.2m.a.m., l.m.t., I observe the sun on the meridian; the resulting lat.is 33° 59' N.  
Continue line and measurement.  
476.75 Fall 14 lks.N.of the cor.of Ts.7 and 8 N.,Rs.11 and 12 W., established by W. H. Kierulff, U.S.Transitman, as hereinbefore described.  
The falling answers to a correction of 0° 01', or 2  $\frac{1}{3}$  lks.south per mile.

April 24 and 29, 1914.  
W. H. T.

W.H.T.  
May 5,1914: At 8h. a.m., l.m.t., I set off 33°59' N.on the lat.arc; 16°08'N. on the decl.arc; and determine a meridian with the solar at the cor.of Ts.7 and 8 N., Rs.10 and 11 W., established by me as hereinbefore described.

## 40. North boundary of Township 7 North, Range 11 West.

Chains.

	Thence I run, on north bdy. of T. 7 N., R. 11 W. on a true line, as follows:
	S. 89° 59' W., bet. secs. 1 and 36.
	Over level land.
13.80	Dry wash, 40 lks. wide, 2 ft. banks, course S. 20° E.
39.95	Dry wash, 20 lks. wide, 2 ft. banks, course S. 20° E.
40.00	Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in the ground, for $\frac{1}{4}$ sec. cor., with brass cap, marked, 1914 in S. rim; $\frac{1}{4}$ S 36 in N., and S 1 in S. half;
	dig pits 18x18x12 ins., E. and W. of cor. 3 ft. dist., and raise a mound of earth $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high, north of cor.
67.30	Dry wash, 10 lks. wide, 2 ft. banks, course S. 10° E.
80.00	Having no 3-inch diam. post, I set an iron post 3 ft. long, 2 ins. in diam., 24 ins. in the ground for cor. of secs. 1, 2, 35 and 36, with brass cap, marked, 1914 in S. rim; T 8 N, R 11 W in N., and T 7 N in S. half; S 35 in NW., S 36 in NE., S 1 in SE., and S 2 in SW. quadrants;
	dig pits 18x18x12 ins., in each sec. $5\frac{1}{2}$ ft. dist., and raise a mound of earth 4 ft. base, 2 ft. high, west of corner.
	Land, level.
	Soil, sandy, 2nd rate.
	Undergrowth, greasewood and mesquite, 4 to 8 ft. high.
	No timber.
	Club cactus.
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	S. 89° 59' W., bet. secs. 2 and 35.
	Over level land.
.95	Dry wash, 20 lks. wide, 2 ft. banks, course S. 10° E.
16.10	Dry wash, 20 lks. wide, 2 ft. banks, course S. 10° E.
32.50	Dry wash, 15 lks. wide, 2 ft. banks, course S.
37.10	Dry wash, 10 lks. wide, 2 ft. banks, course S.
40.00	Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in the ground for $\frac{1}{4}$ sec. cor., with brass cap marked, 1914 in S. rim; $\frac{1}{4}$ S 35 in N., and S 2 in S. half;
	dig pits 18x18x12 ins., E. and W. of cor., 3 ft. dist. and raise a mound of earth $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high, north of cor.
65.75	Dry wash, 20 lks. wide, 3 ft. banks, course S.
67.50	Dry wash, 20 lks. wide, 2 ft. banks, course S.
80.00	Having no 3-in. diam. post, I set an iron post 3 ft. long, 2 ins. in diam., 24 ins. in the ground for cor. of secs. 2, 3, 34 and 35, with brass cap marked, 1914 in S. rim; T 8 N, R 11 W in N., and T 7 N in S. half; S 34 in NW., S 35 in NE., S 2 in SE., and S 3 in SW. quadrants;
	dig pits 18x18x12 ins. in each sec. $5\frac{1}{2}$ ft. dist., and raise a mound of earth 4 ft. base, 2 ft. high, west of cor.
	Land, level.
	Soil, sandy and gravelly, 2nd rate.
	No timber.
	Undergrowth, greasewood and mesquite brush, 4 to 6 ft. high. Scattering club cactus.
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North boundary of Township 7 North, Range 11 West. 41.

Chains.

S.89°59' W., bet. secs. 3 and 34.  
 Over level land.

.70 Ravine, 30 lks.wide, 4 ft.deep, course S.10°W.  
 8.90 Ravine, 20 lks.wide, 6 ft.deep, course S.  
 13.30 Ravine, 20 lks.wide, 6 ft.deep, course S.5° E.  
 20.00 Ravine, 25 lks.wide, 8 ft. deep, course S.  
 34.70 Ravine, 25 lks.wide, 8 ft. deep, course S.  
 40.00 Set an iron post, 3 ft.long, 1 1/2 in. in diam., 12 ins. in the ground (could not set deeper for solid rock); build mound of stone 3 ft. base, 1 1/2 ft. high around post for 1/4 sec.cor., with brass cap marked,  
 1/4 S 34 in N., and  
 S 3 in S.half;  
 1914 in S.rim;  
 dig pits 18x18x12 ins., E.and W.of cor. 3 ft. dist., and raise a mound of earth 3 1/2 ft. base, 1 1/2 ft. high, north of cor.

40.60 Ravine, 15 lks.wide, 8 ft. deep, course S.  
 48.70 Ravine, 15 lks.wide, 4 ft.deep, course S.5° E.  
 56.30 Ravine, 25 lks.wide, 6 ft. deep, course S.  
 61.50 Ravine, 15 lks.wide, 4 ft.deep, course S.  
 66.70 Ravine, 25 lks.wide, 6 ft.deep, course S.  
 80.00 Having no 3-in. diam. post, I set an iron post 3 ft. long, 2 ins. in diam., 24 ins. in the ground, for cor.of secs.3,4,33 and 34, with brass cap marked,  
 1914 in S.rim;  
 T 8 N R 11 W in N., and  
 T 7 N in S.half;  
 S 33 in NW.,  
 S 34 in NE.,  
 S 3 in SE., and  
 S 4 in SW.quadrants;  
 dig pits 18x18x12 ins. in each sec. 5 1/2 ft. dist., and raise a mound of earth 4 ft.base, 2 ft.high, west of cor.

Land, rolling.  
 Soil, gravelly, 3rd rate.  
 Timber, scattering palo verde.  
 Undergrowth, greasewood, mesquite and catclaw brush. Ocotilla and giant cactus.

S.89° 59' W., bet. secs.4 and 33.  
 Over rolling land.

2.30 Ravine, 25 lks.wide, 4 ft.banks, course S.  
 9.80 Ravine, 30 lks.wide, 3 ft.deep, course S.10°E.  
 21.50 Ravine, 15 lks.wide, 2 ft.deep, course S.15°E.  
 26.70 Ravine, 25 lks.wide, 3 ft.deep, course S.  
 31.50 Ravine, 25 lks.wide, 2 ft.deep, course S.15° E.  
 40.00 Set an iron post, 3 ft.long, 1 in. in diam., 26 ins. in the ground for 1/4 sec.cor., with brass cap marked,  
 1914 in S.rim;  
 1/4 S 33 in N., and  
 S 4 in S.half;  
 dig pits 18x18x12 ins., E.and W.of cor., 3ft. dist., and raise a mound of earth 3 1/2 ft. base, 1 1/2 ft. high, north of cor.

49.50 Ravine, 25 lks.wide, 8 ft.deep, course S.5° W.  
 62.30 Ravine, 45 lks.wide, 10 ft. deep, course S.  
 77.10 Ravine, 25 lks.wide, 5 ft. deep, course S.15°E.  
 80.00 Having no 3-inch diam.post, I set an iron post 3 ft. long, 2 ins. in diam., 12 ins. in the ground for cor.of secs. 4,5,32 and 33, with brass cap marked,  
 1914 in S. rim;  
 T 8 N R 11 W in N., and  
 T 7 N in S.half;  
 S 32 in NW.,  
 S 33 in NE.,  
 S 4 in SE., and  
 S 5 in SW.quadrants.

42: North boundary of Township 7 North, Range 11 West  
Chains.

Could not set the post deeper for solid stone. Build mound of earth and stone 3 ft. base,  $1\frac{1}{2}$  ft. high, around post. Dig pits 18x18x12 ins. in each sec.  $5\frac{1}{2}$  ft. dist., and raise a mound of earth 4 ft. base, 2 ft. high, west of cor.

Land, rolling.

Soil, sandy and gravelly, 3rd rate.

Timber, scattering palo verde and ironwood.

Undergrowth, greasewood and catsclaw brush.

Ocotilla and giant cactus.

S.  $89^{\circ} 59' W.$ , bet. secs. 5 and 32.

Over rolling land.

12.50 Ravine, 20 lks. wide, 4 ft. deep, course S.

22.80 Ravine, 40 lks. wide, 8 ft. deep, course S.  $20^{\circ} E.$

24.60 Old road brs. N. and S.

33.90 Ravine, 25 lks. wide, 5 ft. deep, course S.  $10^{\circ} W.$

38.50 Ravine, 30 lks. wide, 8 ft. deep, course S.

40.00 Set an iron post 3 ft. long, 1 in. in diam., 12 ins. in the ground (could not set deeper for solid stone); build mound of stone 3 ft. base,  $1\frac{1}{2}$  ft. high around post for  $\frac{1}{4}$  sec. cor. with brass cap marked,

1914 in S. rim;

$\frac{1}{4}$  S 32 in N., and

S 5 in S. half;

pits impracticable. Build a mound of stone 3 ft. base,  $2\frac{1}{2}$  ft. high, north of cor.

51.50 Ravine, 20 lks. wide, 4 ft. deep, course S.  $10^{\circ} E.$

59.50 Ravine, 25 lks. wide, 5 ft. deep, course S.  $20^{\circ} E.$

80.00 Having no 3-inch diam. post, I set an iron post 3 ft. long, 2 ins. in diam., 6 ins. in the ground (could not set deeper for solid rock) build mound of stone 4 ft. base, 2 ft. high around post for cor. of secs. 5, 6, 31 and 32, with brass cap, marked,

1914 in S. rim;

T 8 N R 11 W in N., and

T 7 N in S. half;

S 31 in NW.,

S 32 in NE.,

S 5 in SE., and

S 6 in SW. quadrants;

pits impracticable. Build a mound of stone 4 ft. base,  $2\frac{1}{2}$  ft. high, west of cor.

Land, rolling.

Soil, gravelly, 3rd rate. 65.00 chs., enter rocky ground.

Timber, palo verde and ironwood.

Undergrowth, greasewood and catsclaw brush.

Ocotilla and giant cactus.

S.  $89^{\circ} 59' W.$  bet. secs. 6 and 31. Over gradual SE. slope.

18.50 Ravine, 20 lks. wide, 3 ft. deep, course S.  $40^{\circ} E.$

23.40 Ravine, 30 lks. wide, 6 ft. deep, course S.  $40^{\circ} E.$

30.70 Ravine, 100 lks. wide, 12 ft. deep, course S.  $35^{\circ} E.$

40.00 Set an iron post 3 ft. long, 1 in. in diam., 6 ins. in the ground for  $\frac{1}{4}$  sec. cor. Could not set deeper for solid rock. Build mound of stone 3 ft. base,  $1\frac{1}{2}$  ft. high around post, with brass cap marked, 1914 in S. rim,

$\frac{1}{4}$  S 31 in N., and S. 6 in S. half; pits im-

practicable. Build mound of stone 3 ft. base, 2 ft. high, north of cor.

54.50 Ravine, 40 lks. wide, 8 ft. deep, course S.

56.80 Ravine, 40 lks. wide, 8 ft. deep, course S.

68.50 Ravine, 30 lks. wide, 8 ft. deep, course S.

76.50 Ravine 20 lks. wide, 4 ft. deep, course S. Ascend steep rocky SE. slope.

76.75 Intersect cor. of Ts. 7 & 8 N. Rs. 11 and 12 W., established

North boundary of Township 7 North, Range 11 West. 43.

Chains.

by W. K. Kierulff, as hereinbefore described.  
Land, rolling.  
Soil, rocky, 4th rate.  
Timber, palo verde and ironwood.  
Undergrowth, greasewood and catsclaw brush.  
Ocotilla and giant cactus.

May 5, 1914.  
W. H.T.

Part of East bdy. of Township 8 North, Range 11 West.

W.H.T.

May 4, 1914: At 9h. a.m., l.m.t., I set off 15°52'N. on the decl. arc; 33°59'N. on the lat. arc; and determine a meridian with the solar at the cor. of Ts. 7 and 8 N., Rs. 10 and 11 W. established by me, as hereinbefore described.

Thence I run, on east bdy. of T. 8 N., R. 11 W., on a true line, as follows:

North, bet. secs. 31 and 36.  
Over level land.

4.55 Dry wash, 100 lks. wide, 2 ft. banks, course S. 10° E.

33.00 Dry wash, 20 lks. wide, 2 ft. banks, course S. 5° W.

40.00 Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in the ground, for 1/4 sec. cor., with brass cap marked, 1/4 S 36 in W., and S 31 in E. half; 1914 in S. rim;

dig pits 18x18x12 ins., N. and S. of cor. 3 ft. dist., and raise a mound of earth 3 1/2 ft. base, 1 1/2 ft. high, west of cor.

57.20 Dry wash, 20 lks. wide, 1 ft. banks, course S. 10° E.

80.00 Having no 3-inch diam. post, I set an iron post, 3 ft. long, 2 ins. in diam., 24 ins. in the ground for cor. of secs. 25, 30, 31 and 36, with brass cap marked, T. 8 N in N. half; R. 11 W S 25 in NW., R 10 W S 30 in NE., S 31 in SE., and S 36 in SW. quadrants; 1914 in S. rim;

dig pits 18x18x12 ins., in each sec. 5 1/2 ft. dist., and raise a mound of earth 4 ft. base, 2 ft. high, W. of cor.

Land, level.  
Soil, gravelly, 3rd rate.  
Timber, scattering palo verde and ironwood.  
Undergrowth, greasewood brush.  
Giant cactus.

North, bet. secs. 25 and 30.

Over level land, through greasewood brush.

40.00 Set an iron post 3 ft. long, 1 in. in diam., 6 ins. in the ground for 1/4 sec. cor. (could not set deeper for solid rock), with brass cap marked, 1914 in S. rim; 1/4 S 25 in W., and S 30 in E. half;

pits impracticable. Build a mound of stone 3 ft. base, 2 ft. high, around post. Raise a mound of stone 3 ft. base, 2 ft. high, west of cor.

41.00 Dry wash, 15 lks. wide, 2 ft. banks, course S. 5° E.

61.40 Ravine, 30 lks. wide, 5 ft. deep, course S. 30° E.

80.00 Having no 3-inch diam. post, I set an iron post, 3 ft.

## 44. Part of East bdy. of Township 8 North, Range 11 West.

Chains,

long, 2 ins. in diam., 24 ins. in the ground for cor. of secs. 19, 24, 25 and 30, with brass cap marked,

T 8 N in N. half;  
R 11 W, S 24 in NW.,  
R 10 W, S 19 in NE.,  
S 30 in SE., and  
S 25 in SW. quadrants;  
1914 in S. rim;

dig pits 18x18x12 ins., in each sec.  $5\frac{1}{2}$  ft. dist., and raise a mound of earth 4 ft. base, 2 ft. high, west of cor.

Land, level.

Soil, gravelly, covered with boulders, 4th rate.

Timber, palo verde and ironwood.

Undergrowth, greasewood brush.

Giant cactus.

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North, bet. secs. 19 and 24.

Over rolling land.

5.00 Ravine, 30 lks. wide, 4 ft. deep, course S. 20° E.

18.00 Ravine, 90 lks. wide, 8 ft. deep, course S. 20° E.

40.00 Set an iron post 3 ft. long, 1 in. in diam., 6 ins. in the ground (could not set deeper for solid rock); build mound of stone and earth 3 ft. base, 2 ft. high around post for  $\frac{1}{4}$  sec. cor., with brass cap, marked,

$\frac{1}{4}$  S 24 in W. and  
S 19 in E. half;  
1914 in S. rim;

dig pits 18x18x12 ins., N. and S. of cor., 3 ft. dist., and raise a mound of earth  $3\frac{1}{2}$  ft. base,  $1\frac{1}{2}$  ft. high, west of cor.

At this cor., I set off 15° 54' N. on the decl. arc, and at 11h. 56.7m. a.m., l.m.t., I observe the sun on the meridian; the resulting latitude is 34° 01' N.

49.00 Ravine, 15 lks. wide, 4 ft. deep, course S. 20° E.

76.00 Ravine, 20 lks. wide, 6 ft. deep, course S. 20° E.

80.00 Having no 3-inch diam. post, I set an iron post 3 ft. long, 2 ins. in diam., 6 ins. in the ground (could not set deeper for solid stone), build mound of stone 3 ft. base, 2 ft. high around post, for cor. of secs. 13, 18, 19 &amp; 24, with brass cap marked,

T 8 N in N. half;  
R 11 W S 13 in NW.,  
R 10 W, S 18 in NE.,  
S 19 in SE., and  
S 24 in SW. quadrants;  
1914 in S. rim;

pits impracticable. Build a mound of stone 4 ft. base, 3 ft. high, west of cor.

Two giant cactus bear S. 60° E., 5 lks. dist.

Land, rolling.

Soil, rocky and gravelly, 4th rate.

Timber, palo verde and ironwood.

Undergrowth, greasewood brush.

Giant cactus and ocotilla.

-----  
North, bet. secs. 13 and 18.

Ascend gradual SE. slope.

11.90 Ravine, 100 lks. wide, 12 ft. banks, course S. 20° E.

40.00 Set an iron post 3 ft. long, 1 in. in diam., 6 ins. in the ground (could not set deeper for solid stone); and build mound of stone 3 ft. base, 2 ft. high around post for  $\frac{1}{4}$  sec. cor., with brass cap, marked,

Part of East boundary of Township 8 North, Range 11 West, 45.

Chains.

1/4 S 13 in W. and  
S 18 in E. half;  
1914 in S. rim;

pits impracticable. Raise a mound of stone 5 ft. base,  
4 ft. high, west of cor.

Discontinue line on account of rugged mountains.

Land, rolling.

Soil, gravelly and rocky, 4th rate.

Timber, palo verde and ironwood.

Undergrowth, greasewood brush. Ocotilla and giant  
cactus.

May 4, 1914.

W. H. T.

-----  
East boundary of Township 7, North, Range 13 West  
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W.H.T.

May 18, 1914: At 9h. a.m., l.m.t., I set off 19°28'1/2"N.  
on the decl. arc; 33°54'N. on the lat. arc, and deter-  
mine a meridian with the solar at the original cor.  
of Ts. 6 and 7 N., Rs. 12 and 13 W., which is a granite  
stone 6x8x8 ins., marked and witnessed as described  
by the Surveyor General; from which,

An ironwood 14 ins. in diam., brs. N. 89°50'W.,  
92 lks. dist., marked T 7 N R 13 W S 36 BT.

An ironwood, 14 ins. in diam., brs. S. 56°E., 180  
lks. dist., marked T 6 N R 12 W S 6 B T.

Thence I run, on east bdy. of Tp. 7 N., R. 13 W., on a true  
line as follows:

North, bet. secs. 31 and 36.

Over level land.

32.20

Dry wash, 10 lks. wide, 3 ft. banks, course S. 40° E.

40.00

Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in  
the ground for 1/4 sec. cor., with brass cap marked,

1/4 S 36 in W., and  
S 31 in E. half;  
1914 in S. rim;

dig pits 18x18x12 ins., N. and S. of cor., 3 ft. dist.,  
and raise a mound of earth 3 1/2 ft. base, 1 1/2 ft. high,  
west of cor.

44.00

Dry wash, 20 lks. wide, 4 ft. banks, course S. 30° E.

57.30

Dry wash, 20 lks. wide, 3 ft. banks, course S. 30° E.

78.40

Road brs. E. and W.

80.00

Having no 3-inch diam. post, I set an iron post 3 ft. long,  
2 ins. in diam., 24 ins. in the ground for cor. of secs.  
25, 30, 31 and 36, with brass cap marked,

T 7 N in N. half;  
R 13 W S 25 in NW.,  
R 12 W; S 30 in NE.,  
S 31 in SE., and  
S 36 in SW. quadrants;  
1914 in S. rim;

dig pits 18x18x12 ins. in each sec. 5 1/2 ft. dist., and  
raise a mound of earth 4 ft. base, 2 ft. high, west of  
cor.

Land, level.

Soil, gravelly, 3rd rate.

Timber, palo verde and ironwood.

Undergrowth; catsclaw and greasewood brush.

Ocotillo and giant cactus.

-----  
North, bet. secs. 25 and 30.  
Over rolling land.

## 46. East boundary of Township 7 North, Range 13 West.

Chains.

- 15.00 Dry wash, 15 lks. wide, 3 ft. banks, course S. 30° E.  
 15.10 Road brs. N. 5° E. and S. 5° W.  
 16.00 Dry wash, 20 lks. wide, 3 ft. banks, course S. 30° E.  
 20.70 Road brs. N. 10° W. and S. 5° E.  
 40.00 Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in the ground for  $\frac{1}{4}$  sec. cor., with brass cap marked,  
      $\frac{1}{4}$  S 25 in W., and  
     S 30 in E. half;  
     1914 in S. rim;  
     dig pits 18x18x12 ins., N. and S. of cor. 3 ft. dist.,  
     and raise a mound of earth  $3\frac{1}{2}$  ft. base,  $1\frac{1}{2}$  ft. high,  
     west of cor.
- 45.00 Ravine, 50 lks. wide, 6 ft. deep, course S. 30° E.  
 50.00 Ravine, 80 lks. wide, 12 ft. deep, course S. 30° E.  
 59.00 Ravine, 30 lks. wide, 8 ft. deep, course S. 30° E.  
 69.20 Ravine, 40 lks. wide, 8 ft. deep, course S. 30° E.  
 75.10 Ravine, 30 lks. wide, 8 ft. deep, course S. 50° E.  
 76.00 Foot of hill; ascend rocky SW. slope.  
 80.00 Having no 3-inch diam. post, I set an iron post 3 ft. long,  
     2 ins. in diam., 6 ins. in the ground (could not  
     set deeper for solid rock); build mound of stone 3  
     ft. base, 2 ft. high around post for corner of secs. 19,  
     24, 25 and 30, with brass cap, marked,  
     T 7 N in N. half;  
     R 13 W S 24 in NW.,  
     R 12 W, S 19 in NE.,  
     S 30 in SE., and  
     S 25 in SW. quadrants;  
     1914 in S. rim;  
     pits impracticable. Build mound of stone 4 ft. base,  
     2 ft. high, west of cor.
- Land, rolling.  
 Soil, rocky and gravelly, 4th rate.  
 Timber, palo verde and ironwood, catsclaw.  
 Undergrowth, greasewood brush; ocotillo and giant cactus.
- 
- North, bet. secs. 19 and 24.  
 Over mountainous land.  
 Ascend over rocky SW. slope.
- 8.24 Top of ridge, 275 ft. ascent, brs. N. 70° W. and S. 40° E.  
 Change to rocky south slope.
- 24.28 Top of ridge, 710 ft. ascent, brs. NW. and SE. Descend N.  
 slope.  
 At this point, I set off 19° 29' N. on decl. arc; and at 11h.  
 56m. a.m., l.m.t., I observe the sun on the meridian;  
 the resulting lat. is 33° 56' N.
- 38.00 Foot of descent; ravine, 20 lks. wide, 10 ft. deep, course  
 east. Ascend steep rocky south slope.
- 40.00 Set an iron post 3 ft. long, 1 in. in diam., in a mound  
 of stone 3 ft. base, 2 ft. high, for  $\frac{1}{4}$  sec. cor., with  
 brass cap marked,  
      $\frac{1}{4}$  S 24 in W., and  
     S 19 in E. half;  
     1914 in S. rim;  
     pits impracticable. Build a mound of stone 3 ft.  
     base, 2 ft. high, west of cor.
- 45.00 Top of steep spur of mountain, brs. E. and W., 440 ft. as-  
 cent.  
 Descend steep rocky N. slope.
- 58.88 Foot of descent, dry wash 20 lks. wide, 4 ft. banks, course  
 N. 30° E.  
 Thence over rolling land.
- 66.30 Dry ravine, 30 lks. wide, 8 ft. deep, course N. 60° E.  
 67.00 Prospect brs. west 100 lks. dist.  
 68.80 Old road brs. E. and W.  
 76.00 Ravine 20 lks. wide, 6 ft. deep, course east.  
 80.00 Having no 3-inch diam. post, I set an iron post 3 ft. long,  
     2 ins. in diam., 18 ins. in the ground (could not set

## East boundary of Township 7 North, Range 13 West. 47.

Chains.

deeper for solid stone) build mound of stone 3 ft. base, 1 ft. high around post for cor. of secs. 13, 18, 19 and 24, with brass cap, marked,

T 7 N in N. half;  
R 13 W S 13 in NW.,  
R 12 W S 18 in NE.,  
S 19 in SE., and  
S 24 in SW. quadrants  
1914 in S. rim;

pits impracticable. Build a mound of stone 4 ft. base, 3 ft. high, west of cor.

Land, mountainous.

Soil, rocky, 4th rate.

Timber, scrub palo verde.

Undergrowth, greasewood, ocotillo and giant cactus.

May 18, 1914.

May 19, 1914:

At 9h. a.m., l.m.t., I set off  $19^{\circ}41'N.$  on decl. arc;  $33^{\circ}56'N.$  on the lat. arc; and determine a meridian with the solar at the cor. of secs. 13, 18, 19 and 24.

Thence I run,

North, bet. secs. 13 and 18.

Over mountainous land.

15.00 Ascend steep rough rocky SE. slope.

24.46 Miner's cabin brs. east 20 chs. dist.

31.92 Change to steep broken east slope.

40.00 Set an iron post 3 ft. long, 1 in. in diam., in a mound of stone 4 ft. base, 2 ft. high around post for  $\frac{1}{4}$  sec. cor., with brass cap, marked,

$\frac{1}{4}$  S 13 in W., and  
S 18 in E. half;  
1914 in S. rim;

pits impracticable. Build a mound of stone 3 ft. base, 2 ft. high, west of cor.

Miner's cabin brs. east 12.00 chs. dist.

There are numerous prospects on this mountain.

54.34 Prospect shaft brs. west 20 lks. distance.

55.70 Summit of mountains, brs. N.  $30^{\circ}E.$  and S.  $30^{\circ}W.$

Cunningham Pass, 750 ft. ascent.

60.30 Mine shaft brs. east 50 links dist.

65.81 Miner's cabin brs. west 100 links dist.

74.50 Ravine, 20 lks. wide, 12 ft. deep, course N.  $30^{\circ}W.$

75.80 Road, Wenden, Swansea and Bill Williams, brs. N.  $30^{\circ}W.$  and S.  $30^{\circ}E.$

80.00 Having no 3-inch diam. post, I set an iron post 3 ft. long, 2 ins. in diam., 24 ins. in the ground for cor. of secs. 7, 12, 13 and 18, with brass cap marked,

T 7 N in N. half;  
R 13 W, S 12 in NW.,  
R 12 W, S 7 in NE.,  
S 18 in SE., and  
S 13 in SW. quadrants;

1914 in S. rim; pits impracticable.

build a mound of stone 4 ft. base, 3 ft. high, west of cor.

Land, mountainous.

Soil, rocky, 4th rate.

Timber, scattering scrub palo verde.

Undergrowth, scattering greasewood brush.

Ocotillo and giant cactus.

North, bet. secs. 7 and 12.

Over mountainous land.

Along very broken west slope.

## 48. East boundary of Township 7 North, Range 13 West.

Chains.	
36.30	Ravine, 30 lks.wide, 8 ft. deep, course west.
40.00	Set an iron post 3 ft.long, 1 in. in diam., 26 ins. in the ground for $\frac{1}{4}$ sec.cor., with brass cap, marked, $\frac{1}{4}$ S 12 in W., and S 7 in E.half; 1914 in S.rim; pits impracticable. Build a mound of stone 3 ft. base, 2 ft.high, west of cor.
51.00	Ravine, 100 lks.wide, 12 ft.deep, course west.
59.60	Ravine, 30 lks.wide, 6 ft. deep, course S. 80°W.
60.00	Ascend steep rough rocky south slope.
80.00	Having no 3-inch diam.post, I set an iron post 3 ft. long, 2 ins. in diam., in a mound of stone 4 ft.base, 2 ft.high for cor.of secs. 1, 6, 7 and 12, with brass cap, marked, T 7 N in N.half; R 13 W, S 1 in NW., R 12 W, S 6 in NE., S 7 in SE., and S 12 in SW.quadrants; 1914 in S.rim; pits impracticable. Build a mound of stone 3 ft. base, 2 ft.high, west of cor.
	Land, mountainous. Soil, rocky, 4th rate. Timber, scattering palo verde. Undergrowth, greasewood brush, ocotillo and giant cactus. At this cor., I set off 19° 43' N. on the decl.arc; and at 11h. 56.2m.a.m., 1.m.t., I observe the sun on the meridian; the resulting lat.is 33° 58' N.
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	North, bet. secs.1 and 6. Over mountainous land.
2.48	Top of spur of mountain, brs.E.and W. 460 ft.ascent. Descend steep rocky NW. slope.
13.10	Ravine, 15 lks.wide, 5 ft. deep, course N.80°W.
17.10	Miner's cabin brs.west 15 chains.
20.00	Ravine, 30 lks.wide, 5 ft. deep, course S.85°W.
22.10	Miner's cabin brs.W. 6 chs.dist.
27.20	Ravine, 120 lks.wide, 12 ft.deep, course S.70°W.
28.00	Ascend steep rocky south slope.
40.00	Set an iron post, 3 ft.long, 1 in. in diam., in mound of stone 3 ft.base, 2 ft.high, around post for $\frac{1}{4}$ sec. cor., with brass cap marked, $\frac{1}{4}$ S 1 in W., and S 6 in E.half; 1914 in S.rim; pits impracticable. Build a mound of stone 3 ft.base, 2 ft.high, west of cor.
53.41	Top of mountain, 900 ft.ascent, brs.N.and S. Descend over broken rough east slope.
80.00	Set an iron post, 3 ft.long, 3 ins, in diam., in a mound of stone 4 ft.base, 3 ft.high, for cor.of Ts.7 and 8 N., Rs.12 and 13 W., with brass cap marked, 1914 in S.rim; T 8 N in N., and T 7 N in S.half; R 13 W S 36 in NW., R 12 W, S 31 in NE., S 6 in SE., and S 1 in SW.quadrants; pits impracticable. not sufficient stone to build another mound. Land, mountainous. Soil, rocky, 4th rate. Timber, scattering scrub palo verde. Ocotillo and cactus.

May 19, 1914.

W. H. T.

West boundary of Township 6 North, Range 13 West. 49.  
Chains.

W.K.K.  
Survey commenced May 23, 1914, and executed with a Young and Sons' light mountain transit No.8492, hereinbefore described.

I examine the adjustments of the transit, and find it correct for level and collimation; then to test the solar apparatus by a.m. and p.m. observations on a meridian determined by observations on Polaris, I proceed as follows:

May 22, 1914: At a point near camp, in sec.21, T.6 N., R.13 W.; latitude 33° 50'30"N.; longitude, 113°37'00" W., at 4h,30m. p.m., l.m.t., I set off 33° 50½'N. on the lat.arc; 20°23'N. on the decl.arc; and determine a meridian with the solar. On the true line thus determined, I set a rod 10 chs.north of my station.

At 9h. 27.7m.p.m., l.m.t., I observe Polaris at lower culmination in accordance with the Manual of Instructions.

May 23, 1914: At 9h. a.m., l.m.t., I set off 33°50'N. on the lat.arc; 20°31'N. on the decl.arc; and determine a meridian with the solar. The meridian thus determined falls upon the rod set 10 chs. north of my station, as does the meridian determined by observations upon Polaris. Therefore, I conclude that the adjustments of the instrument are satisfactory.

May 23, 1914:  
At 10h. a.m., l.m.t., I set off 33°48½'N. on the lat. arc; 20.31½'N. on the decl.arc; and determine a meridian with the solar at the original cor. of Ts.5 and 6 N., Rs.13 and 14 W., which is a stone 6x4x4 ins. above ground, marked and witnessed as described by the Surveyor General.

Thence I run, on west bdy. of T.6 N., R.13 W., on true line as follows:

North, bet. secs. 31 and 36.  
Over level land.

40.00 Set an iron post, 3 ft.long, 1 in. in diam., 26 ins. in the ground for ¼ sec.cor., with brass cap marked,  
¼ S 36 in W. and  
S 31 in E.half;  
1914 in S.rim;  
dig pits 18x18x12 ins., N.and S.of cor. 3 ft. dist., and raise a mound of earth 3½ ft. base, 1½ ft. high, west of cor.

53.75 Dry wash, 40 lks. wide, 1 ft. banks, course SE.

71.00 Dry wash 20 lks.wide, 1 ft.banks, course SE.

80.00 Set an iron post 3 ft.long, 3 ins. in diam., 24 ins. in the ground for cor.of secs.25,30,31 and 36, with brass cap marked;

T 6 N in N.half;  
R 14 W, S 25 in NW.,  
R 13.W S 30 in NE.,  
S 31 in SE., and  
S 36 in SW.quadrants;  
1914 in S.rim;

dig pits 18x18x12 ins., in each sec. 5½ ft. dist., and raise a mound of earth 4 ft. base, 2 ft.high, west of corner.

Land, level.

Soil, sandy and gravel, 3rd rate.

Timber, palo verde.

Undergrowth, greasewood brush, ocotillo and giant cactus.

27.30 North, on a true line, bet. secs.25 and 30.  
Over level land.  
Old road brs.NW. and SE.

50. West boundary of Township 6 North Range 13 West

Chains.

40.00 Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in the ground for  $\frac{1}{4}$  sec. cor., with brass cap marked,  
 $\frac{1}{4}$  S 25 in W., and  
 S 30 in E. half;  
 1914 in S. rim;  
 dig pits 18x18x12 ins. N. and S. of cor. 3 ft. dist., and raise a mound of earth  $3\frac{1}{2}$  ft. base,  $1\frac{1}{2}$  ft. high, west of cor.

40.15 Dry wash, 30 lks. wide, 1 ft. banks, course S. 20° E.

80.00 Set an iron post 3 ft. long, 3 ins. in diam., 24 ins. in the ground for cor. of secs. 19, 24, 25 and 30, with brass cap, marked,  
 T 6 N in N. half;  
 R 14 W, S 24 in NW.,  
 R 13 W, S 19 in NE.,  
 S 30 in SE., and  
 S 25 in SW. quadrants;  
 1914 in S. rim;  
 dig pits 18x18x12 ins., in each section  $5\frac{1}{2}$  ft. dist., and raise a mound of earth 4 ft. base, 2 ft. high, west of cor.

Land, level.  
 Soil, sandy and gravelly, 3rd rate.  
 Timber, palo verde.  
 Undergrowth greasewood brush, ocotillo and giant cactus.

-----

North, bet. secs. 19 and 24.  
 Over level land.

40.00 Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in the ground for  $\frac{1}{4}$  sec. cor., with brass cap marked,  
 $\frac{1}{4}$  S 24 in W., and  
 S 19 in E. half;  
 1914 in S. rim;  
 dig pits 18x18x12 ins., N. and S. of cor., 3 ft. dist., and raise a mound of earth  $3\frac{1}{2}$  ft. base,  $1\frac{1}{2}$  ft. high, west of cor.

80.00 Set an iron post 3 ft. long, 3 ins. in diam., 24 ins. in the ground for cor. of secs. 13, 18, 19 and 24, with brass cap, marked,  
 T 6 N in N. half;  
 R 14 W, S 13 in NW.,  
 R 13 W S 18 in NE.,  
 S 19 in SE., and  
 S 24 in SW. quadrant;  
 1914 in S. rim;  
 dig pits 18x18x12 ins. in each sec.  $5\frac{1}{2}$  ft. dist., and raise a mound of earth 4 ft. base, 2 ft. high, W. of cor.

Land, level.  
 Soil, sandy and gravelly, 3rd rate.  
 Timber, palo verde.  
 Undergrowth, greasewood brush, ocotillo and giant cactus.  
 At this cor., I set off 20° 32' N. on the decl. arc, and at 11h. 56.5m. a.m., l.m.t., observe the sun on the meridian; the resulting lat. is 33° 51' N.

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North, bet. secs. 13 and 18.

6.00 Dry wash, 50 lks. wide, 1 ft. banks, course SE.

13.50 Dry wash, 75 lks. wide,  $\frac{1}{2}$  banks, course SE.

40.00 Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in the ground for  $\frac{1}{4}$  sec. cor., with brass cap marked,  
 $\frac{1}{4}$  S 13 in W., and  
 S 18 in E. half;  
 1914 in S. rim;  
 pits impracticable. Build mound of stone 3 ft. base, 3 ft. high, west of cor.

West boundary of Township 6 North, Range 13 West.

Chains.

40.50 Ascend steep rocky south slope.  
 43.00 Top of ascent, brs.N.and S.  
 56.00 Change to west slope.  
 80.00 Set an iron post 3 ft.long, 3 ins. in diam., in a mound  
 of stone 3 ft.base, 2½ ft. high for cor.of secs.7,12,  
 13 and 18, with brass cap marked,  
 T 6 N in N.half;  
 R 14 W S 12 in NW.,  
 R 13 W S 7 in NE.,  
 S 18 in SE., and  
 S 13 in SW.quadrants;  
 1914 in S.rim;  
 pits impracticable. Build a mound of stone 3 ft. high,  
 3 ft.base, west of cor.  
 Land,mountainous.  
 Soil, rocky, 4th rate.  
 Timber, palo verde.  
 Undergrowth, greasewood, and giant cactus.  
 May 23,1914.

May 25,1914:

At 9h.a.m., 1.m.t., I set off 33°52'N. on the lat.arc;  
 20°53½'N. on the decl.arc; and determine a meridian  
 with the solar at the cor.of secs.7,12,13 and 18.

Thence I run,  
 North, bet. secs.7 and 12.  
 Over mountainous land.

Ascend steep rocky SW.slope.  
 16.10 Top of ridge, 680 ft.high, brs.E.and W., in saddle divide.  
 22.00 Thence over steep N.slope. Descend 530 ft.to  
 40.00 Set an iron post 3 ft.long, 1 in.in diam., in mound of  
 stone 3 ft.base, 2½ ft. high for ¼ sec.cor., with  
 brass cap marked,  
 ¼ S 12 in W., and  
 S 7 in E.half;  
 1914 in S.rim;

pits impracticable. Raise a mound of stone 3 ft.  
 base, 3 ft.high, west of cor.

42.00 Ascend along west slope to  
 60.00 Thence over steep north slope; descend 100 ft.to  
 65.00 Dry wash, 100 lks.wide, 3 ft.banks, course west.  
 Thence over steep south slope; ascend 100 ft.  
 66.50 Trail, brs. E.and W.  
 71.00 Top of ascent; thence over north slope; descend 80 ft.to  
 76.00 Draw, course west. Thence over steep south slope.  
 Ascend 60 ft.to

80.00 Set an iron post 3 ft.long, 3 ins. in diam., in a mound  
 of stone 3 ft.base, 2½ ft. high for cor.of secs.1,6,  
 7 and 12, with brass cap marked,  
 T 6 N in N.half;  
 R 14 W S 1 in NW.,  
 R 13 W, S 6 in NE.,  
 S 7 in SE.,and  
 S 12 in SW.quadrants;  
 1914 in S.rim;  
 pits impracticable, Build a mound of stone 3 ft.base,  
 3 ft.high, west of cor.  
 Land,mountainous.  
 Soil, rocky, 4th rate.  
 Timber, scattering palo verde.  
 Undergrowth, none. Ocotillo and giant cactus.

52. West boundary of Township 6 North, Range 13 West.

Chains.

North, bet. secs. 1 and 6.  
 Ascend 150 ft. over south slope.  
 16.30 Top of spur ridge, brs. E. and W.  
 Descend over steep north slope.  
 22.00 Foot of descent, draw, course west.  
 Ascend steep south slope.  
 27.10 Top of spur, brs. E. and W.  
 Descend over north slope.  
 37.00 Foot of descent.  
 Ascend over south slope.  
 39.00 Top of spur ridge, brs. E. and W.  
 Descend over north slope.  
 40.00 Set an iron post 3 ft. long, 1 in. in diam., in a mound  
 of stone 3 ft. base, 2 1/2 ft. high for 1/4 sec. cor., with  
 brass cap marked,  
     1/4 S 1 in W., and  
     S 6 in E. half;  
     1914 in S. rim;  
 pits impracticable. Build a mound of stone 3 ft.  
 base, 3 ft. high, W. of cor.  
 42.00 Along gradual NW. slope.  
 57.00 Dry wash, 125 lks. wide, 20 ft. banks, course NW.  
 59.00 Enter rolling ridges, bearing E. and W.  
 80.00 Set an iron post 3 ft. long, 3 ins. in diam., in a mound  
 of stone 3 ft. base, 2 1/2 ft. high for cor. of Ts. 6 and  
 7 N., Rs. 13 and 14 W., with brass cap marked,  
     T 7 N in N., and  
     T 6 N in S. half;  
     R 14 W, S 36 in NW.,  
     R 13 W, S 31 in NE.,  
     S 6 in SE. and  
     S 1 in SW. quadrants;  
     1914 in S. rim;  
 pits impracticable. Raise a mound of stone 3 ft.  
 base, 3 ft. high, south of cor.  
 Land, mountainous.  
 Soil, rocky, 4th rate.  
 Timber, scattering palo verde.  
 Undergrowth, none; ocotillo and giant cactus.

At this cor. I set off 20° 54 1/2' N. on the decl. arc; and  
 at 11h. 56.6m. a.m., l.m.t., I observe the sun on  
 the meridian; the resulting lat. is 33° 54' N.  
 May 25, 1914.  
 W.K.K.

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Chains.

W.H.T.  
 May 21, 1914:  
 At 9h. a.m., l.m.t., I set off 33°54'N. on the lat.arc; 20°07'N. on the decl.arc; and determine a meridian with the solar at the original cor.of Ts. 6 and 7 N., Rs.12 and 13 W., which is a granite stone 6x8x8 ins., marked and witnessed as described by the Surveyor General.  
 Thence I run, West, on a random line, along north boundary of Tp.6 N., R.13 W., setting temp.cors.at intervals of 40.00 chs. 160.00 Temp. cor.of secs.2,3,34 and 35 near the foot of a steep mountain. It being impracticable to chain further, I line in flag on top of mountain. Measure a base N. 32.00 chs. from which flag on top of mountain brs. S.64°18'W.; therefore, tangent, 64° 18' x base or 2.0778 x 32.00 chs. = 66.49 chs., which added to 160.00 chs.= 226.49  
 Flag point on line on top of mountain. Impracticable to chain measurement west from this point. May 21, 1914

May 23, 1914.  
 I obtain a point on line west of the flag on top of mountain, by taking several solar observations. I measure a base south 25.13 chs. from which the flag on the mountain brs.N.62° 22'E.; therefore, tangent x base or 1.91012 x 25.13 chs. = 48.00 chs., which added to 226.49 chs.= 274.49  
 Triangulation point on line, from which, Continue line and measurement by chain. 320.00  
 Temp. cor. of secs.4,5,32 and 33, I set off 20°32'N.on decl.arc; and at 11h. 56.5m. a.m., l.m.t., I observe the sun on the meridian; the resulting lat.is 33° 54'N. 360.00  
 Temp. 1/2 sec.cor. to secs.5 and 32. At this point, at 3h. p.m., l.m.t., I set off 20°34'N. on the decl.arc; 33°54'N. on the lat.arc; and determine a meridian with the solar; and at this same station At 3h. 22.7m. p.m., l.m.t., I observe Polaris at western elongation. No difference in the two meridians. Continue line and measurement. 480.48  
 Intersect west bdy. of T.6 N.,R.13 W., 65 lks.S.of the cor. of Ts.6 and 7 N., Rs.13 and 14 W., established by W. K. Kierulff, U.S.Transitman, as hereinbefore described.  
 This falling answers to a correction of 11 links N. per mile or 5' of arc.  
 May 21 and 25, 1914.  
 W. H. T.

W.H.T.  
 May 25, 1914. From the original cor.of Ts. 6 and 7 N., Rs.12 and 13 W., which is a granite stone 6x8x8 ins., marked and witnessed as described by the Surveyor General, I run on N.bdy.of T.6N.,R.13 W.on true line, as follows:  
 N.89°55'W., bet. secs.1 and 36.  
 Over rolling land, through greasewood brush and palo verde.  
 8.00 Dry wash, 10 lks.wide, 2 ft.banks, course S.35°E.  
 13.50 Road brs.N.50°W. and S.50°E.  
 19.50 Old road brs.N.and S.10°W.  
 25.00 Dry wash, 20 lks.wide, 2 ft.banks, course S.70°E.  
 32.50 Dry wash, 20 lks.wide, 1 ft.banks, course S. 70°E.  
 40.00 Set an iron post 3 ft.long, 1 in. in diam., 26 in. in the ground for 1/4 sec.cor., with brass cap marked, 1914 in S.rim, 1/4 S 36 in N., and S 1 in S.half;

## 54. North boundary of Township 6 North Range 13 West.

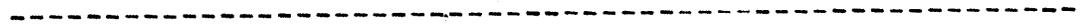
Chains

- dig pits 18x18x12 ins., E. and W. of cor. 3 ft. dist., and raise a mound of earth  $3\frac{1}{2}$  ft. base,  $1\frac{1}{2}$  ft. high, north of cor.
- 44.30 Dry wash, 20 lks. wide, 1 ft. banks, course S.  $30^{\circ}$  E.  
 60.00 Ravine, 80 lks. wide, 8 ft. deep, course S.  $20^{\circ}$  E.  
 65.80 Ravine, 60 lks. wide, 6 ft. deep, course S.  $30^{\circ}$  E.  
 71.40 Road brs. NW. and SE.  
 77.60 Dry wash, 30 lks. wide, 1 ft. banks, course S.  $20^{\circ}$  E.  
 80.00 Set an iron post 3 ft. long, 3 ins. in diam., 24 ins. in the ground for cor. of secs. 1, 2, 35 and 36, with brass cap, marked,  
 1914 in S. rim;  
 T 7 N R 13 W in N., and  
 T 6 N in S. half;  
 S 35 in NW.,  
 S 36 in NE.,  
 S 1 in SE., and  
 S 2 in SW. quadrants;  
 dig pits 18x18x12 ins., in each sec.  $5\frac{1}{2}$  ft. dist., and raise a mound of earth 4 ft. base, 2 ft. high, W. of cor. Land, east half, level; west half, rolling.  
 Soil, gravelly, 3rd rate.  
 Timber, palo verde and catclaw.  
 Undergrowth, greasewood brush, ocotillo and giant cactus.
- 
- N.  $89^{\circ} 55'$  W., bet. secs. 2 and 35.  
 Over rolling land.  
 1.10 Ravine, 40 lks. wide, 4 ft. banks, course S.  $20^{\circ}$  E.  
 10.80 Ravine, 40 lks. wide, 4 ft. banks, course S.  $30^{\circ}$  E.  
 33.20 Dry wash, 100 lks. wide, 2 ft. banks, course S.  $20^{\circ}$  E.  
 39.50 Old road brs. N. and S.  
 40.00 Set an iron post 3 ft. long, 1 in. in diam., 18 ins. in the ground (could not set deeper for solid stone) build mound of stone 2 ft. base, 1 ft. high around post for  $\frac{1}{4}$  sec. cor., with brass cap marked,  
 1914 in S. rim;  
 $\frac{1}{4}$  S 35 in N., and  
 S 2 in S. half;  
 pits impracticable. Build a mound of stone 3 ft. base, 2 ft. high, north of cor.  
 48.25 Ravine, 40 lks. wide, 6 ft. deep, course S.  $20^{\circ}$  E.  
 54.00 Ravine, 40 lks. wide, 6 ft. deep, course S.  $20^{\circ}$  E.  
 63.90 Ravine, 100 lks. wide, 20 ft. deep, course S.  $10^{\circ}$  E.  
 70.80 Ravine, 50 lks. wide, 8 ft. deep, course S.  $20^{\circ}$  E.  
 80.00 Set an iron post 3 ft. long, 3 ins. in diam., 12 ins. in the ground (could not set deeper for solid stone) build mound of stone 3 ft. base,  $1\frac{1}{2}$  ft. high around post for cor. of secs. 2, 3, 34 and 35, with brass cap, marked,  
 1914 on S. rim;  
 T 7 N R 13 W in N., and  
 T 6 N in S. half;  
 S 34 in NW.,  
 S 35 in NE.,  
 S 2 in SE., and  
 S 3 in SW. quadrants;  
 pits impracticable. Build a mound of stone 4 ft. base,  $2\frac{1}{2}$  ft. high, west of cor.  
 Land, rolling.  
 Soil, rocky and gravelly, 3rd and 4th rate.  
 Timber, palo verde.  
 Undergrowth, greasewood brush, ocotillo and giant cactus.
- 
- N.  $89^{\circ} 55'$  W., bet. secs. 3 and 34, by triangulation, hereinbefore described.  
 Over mountainous land.

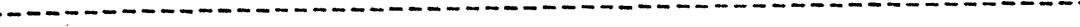
North boundary of Township 6 North Range 13 West. 55.

Chains.

40.00 Ascend steep SE. slope of mountain.  
 Impracticable to set  $\frac{1}{4}$  sec.cor.  
 66.49 Flag point of triangulation. Top of mountain brs.N.  
 and S., 1200 ft. above sec.cor. Descend over steep  
 SW. slope.  
 80.00 Impossible to set cor.of secs. 3,4,33 and 34.  
 Land, mountainous.  
 Soil, rocky, 4th rate.  
 Timber, scrub palo verde.  
 Undergrowth, greasewood brush. Giant cactus.



N.89°55'W., bet. secs.4 and 33, by triangulation, as here-  
 inbefore described.  
 Over mountainous land.  
 34.49 Triangulation point. Thence continue measurement by  
 chain. Change to steep south slope.  
 40.00 Set an iron post 3 ft.long, 1 in. in diam,in a mound  
 of stone 4 ft.base, 2 $\frac{1}{2}$  ft.high for  $\frac{1}{4}$  sec.cor., with  
 brass cap marked,  
     1914 in S.rim;  
      $\frac{1}{4}$  S 33 in N., and  
     S 4 in S.half;  
 pits impracticable. Build a mound of stone 3 ft. base,  
 3 ft.high, north of cor.  
 43.20 Ravine, 60 lks.wide, 10 ft.deep, course S.20°E.  
 49.30 Ravine, 80 lks.wide, 10 ft. deep, course S.  
 67.30 Ravine, 40 lks.wide, 8 ft. deep, course S.  
 79.60 Ravine, 150 lks.wide, 8 ft. deep, course S.10° E.  
 80.00 True point for sec.cor. falls in ravine; impracticable  
 to set post. Continue line to  
 80.57 Set an iron post 3 ft.long, 3 ins. in diam., 24 ins.  
 in the ground for witness cor.to cor.of secs.4,5,32&  
 33, with brass cap marked,  
     1914 in S.rim;  
     T 7 N, R 13 W in N., and  
     T 6 N in S.half;  
     W C S.of center,  
     S 32 in NW.,  
     S 33 in NE.,  
     S 4 in SE., and  
     S 5 in SW.quadrants;  
 pits impracticable; raise a mound of stone 4 ft.  
 base, 2 ft.high, west of corner.  
 Land, mountainous to 40.00 chains; thence rolling.  
 Soil, rocky, 4th rate.  
 Timber, scrub palo verde and catclaw.  
 Undergrowth, greasewood brush, ocotillo and giant cactus.



N.89°55'W., bet. secs.5 and 32, from true point for cor.  
 of secs.4,5,32 and 33.  
 Over rolling and mountainous land, through greasewood  
 brush.  
 0.57 Witness cor.to cor.of secs.4,5,32 and 33.  
 11.40 Ravine, 160 lks.wide, 12 ft. deep, course south.  
 25.05 Ravine, 80 lks.wide, 10 ft. deep, course south.  
 28.55 Old road brs. N.60°W. and S.45°E.  
 40.00 Set an iron post 3 ft.long, 1 in.in diam., 12 ins. in  
 the ground (could not set deeper for solid stone)  
 build mound of stone 3 ft.base, 2 ft.high around  
 post for  $\frac{1}{4}$  sec.cor., with brass cap marked,  
     1914 in S.rim;  
      $\frac{1}{4}$  S 32 in N., and  
     S 5 in S.half;  
 pits impracticable, Build a mound of stone 3 ft.

56 North boundary of Township 6 North, Range 13 West.

Chains.

base, 2 ft. high, N. of cor.  
 42.50 Ravine, 100 lks. wide, 12 ft. banks, course S. 60° E.  
 48.00 Ascend steep rocky NE. slope.  
 80.00 Set an iron post, 3 ft. long, 3 ins. in diam., in a mound  
 of stone 3 ft. base, 2½ ft. high for cor. of secs. 5, 6,  
 31 and 32, with brass cap marked,  
 1914 in S. rim;  
 T 7 N R 13 W in N., and  
 T 6 N in S. half;  
 S 31 in NW.,  
 S 32 in NE.,  
 S 5 in SE., and  
 S 6 in SW. quadrants;  
 pits impracticable. Build a mound of stone 4 ft. base,  
 2½ ft. high, west of cor.  
 Land, rolling and mountainous.  
 Soil, rocky, 4th rate.  
 Timber, scrub palo verde.  
 Undergrowth, greasewood brush.  
 Ocotillo and giant cactus.

N. 89° 55' W., bet. secs. 6 and 31.  
 Over mountainous land.  
 7.00 Change to east slope.  
 23.73 Top of mountain, brs. N. 10° E. and S. 40° W., 1250 ft. high.  
 30.88 Descend steep west slope.  
 34.38 Ravine, 15 lks. wide, 5 ft. deep, course N.  
 Foot of descent.  
 Ascend steep east slope.  
 40.00 Set an iron post 3 ft. long, 1 in. in diam., 12 ins. in  
 the ground (could not set deeper for solid stone)  
 build mound of stone 4 ft. base, 1½ ft. high around  
 post for ¼ sec. cor., with brass cap, marked,  
 1914 in S. rim;  
 ¼ S 31 in N., and  
 S 6 in S. half;  
 pits impracticable. Build a mound of stone 4 ft.  
 base, 2 ft. high, N. of cor.  
 41.80 Top of ridge, brs. N. 15° W. and S. 45° E.  
 Thence over steep rocky W. slope; descend 1025 ft. to  
 80.48 Intersect cor. of Ts. 6 and 7 N., Rs. 13 and 14 W., estab-  
 lished by W. K. Kierulff, as hereinbefore described.  
 Land, mountainous and rolling.  
 Soil, rocky 4th rate.  
 Timber, scrub palo verde.  
 Undergrowth, greasewood brush.  
 Octotillo and giant cactus.

May 25, 1914.

W. H. T.

South boundary of Township 7 North, Range 14 West. 57.

Chains.

W. K.K.  
 Survey commenced June 3, 1914, and executed with a Young and Sons' light mountain transit No.8492, hereinbefore described.  
 I examine the adjustments of the transit, and find it correct for levels and collimation. Then, to test the solar apparatus by a.m. and p.m. observations on a meridian determined by observations on Polaris, I proceed as follows:  
 June 3, 1914: At a point near camp in sec.28, T.7 N., R.14 W.; latitude, 33°55'30" N.; longitude, 113° 43' 10"W. at 4h.30m. p.m., l.m.t., I set off 33° 55' N. on the lat. arc; 22°19'N. on the decl. arc; and determine a meridian with the solar. On the line thus determined, I set a rod 10 chains north of my station.  
 At 8h.42m. p.m., l.m.t., I observe Polaris at lower culmination in accordance with the Manual of Instructions.  
 June 4, 1914: At 8h. a.m., l.m.t., I set off 33° 55' N. on the lat. arc; 22°24'N. on the decl. arc; and determine a meridian with the solar. The meridian thus determined falls upon the rod set 10 chains N. of my station, as does the meridian determined by observations on Polaris.  
 Therefore I conclude that the adjustments of the instrument are satisfactory.  
 At 9h. a.m., l.m.t., I set off 22° 24'N. on the decl. arc; 33°54'N. on the lat. arc, and determine a meridian with the solar at the cor. of Ts.6 and 7 N., Rs. 13 and 14 W., established by me, as hereinbefore described.  
 Thence I run, on south bdy. of T.7 N., R.14 W., on a true line, as follows:  
 West, bet. secs.1 and 36.  
 Over rolling land.  
 In draw, course west.  
 Descend west slope, 180 ft.  
 25.00 Foot of descent. Thence over rolling land.  
 At a point for ¼ sec.cor. will fall in wash, at  
 39.50 Set an iron post 3 ft. long, 1 in. in diam., in a mound of stone 3 ft. base, 2½ ft. high for witness cor. to ¼ sec.cor., with brass cap, marked,  
 1914 in S. rim;  
 W C ¼ S, 36 in N., and  
 S.1 in S. half;  
 pits impracticable. Build a mound of stone 3 ft. base, 3 ft. high, north of cor.  
 40.00 True point for ¼ sec.cor. in dry wash, 100 lks. wide, 15 ft. banks, course N.70°W.  
 58.18 U.S.M.M.No.2927, brs.S.19°13'E., marked,  
 X on top of ledge, stone firmly set in place,  
 2927 on E. face,  
 U S M M on W. face; mound of stone 4 ft. base, 6 ft. high, north of monument.  
 Enter dry wash, 150 lks. wide, 40 ft. banks, course S.80° W.; follow it to junction with  
 70.00 Dry wash, 600 lks. wide, 40 ft. banks, course N.10°W.  
 71.14 Claim corner brs. S.53 links dist.; granite stone 16x12x12 ins. firmly set and marked,  
 X3066 on top,  
 1 B 2 on N. face,  
 4 B 3 on S. face;  
 mound of stone 4 ft. base, 3 ft. high, 6 ft. N.  
 80.00 True point for sec.cor. falls on west bank of wash in unsafe place to establish cor.; therefore continue west to  
 81.00 Set an iron post 3 ft. long, 3 ins. in diam., 12 ins. in the ground (could not set deeper for solid stone); build mound of stone 3 ft. base, 2 ft. high around post for witness cor. to cor. of secs.1, 2, 35 and 36,

58. South boundary of Township 7 North, Range 14 West.

Chains.

with brass cap marked,  
1914 in S.rim.  
T 7 N R 14 W in N., and  
T 6 N in S.half;  
W C N of center;  
S 35 in NW.,  
S 36 in NE.,  
S 1 in SE., and  
S 2 in SW. quadrants;

pits impracticable. Build a mound of stone 3 ft. base, 3 ft. high, west of cor.  
A group of buildings, property of the Arizona Mining Company brs. S. 48 1/4° E. about 10 chs. dist.; from this corner,  
U S M M No. 2927 brs. S. 38° 30' E.

Land, rolling.  
Soil, rocky, 4th rate.  
Timber, palo verde.  
Undergrowth, greasewood brush, ocotillo and cholla.

West, bet. secs. 2 and 35, from true point for cor. of secs. 1, 2, 35 and 36.

- 1.00 Witness cor. to cor. of secs. 1, 2, 35 and 36.
- 2.00 Road brs. N. and S.
- 5.00 Ascend east slope; ascend 60 ft. to
- 12.20 Top of hill; thence over W. slope. Descend 200 ft. to
- 30.00 Thence over rolling land.
- 40.00 Set an iron post 3 ft. long, 1 in. in diam., in a mound of stone 3 ft. base, 2 1/2 ft. high for 1/4 sec. cor., with brass cap marked,  
1914 in S.rim;  
1/4 S 35 in N., and  
S 2 in S.half;  
pits impracticable. Build a mound of stone 3 ft. base, 2 1/2 ft. high, north of cor.
- 50.00 Dry wash, 75 lks. wide, 3 ft. banks, course NW.
- 63.00 Dry wash, 75 lks. wide, 6 ft. banks, course N. 10° W.
- 75.16 Dry wash, 125 lks. wide, 30 ft. banks, course N. 10° W.
- 80.00 Set an iron post 3 ft. long, 3 ins. in diam., 24 ins. in the ground for cor. of secs. 2, 3, 34 and 35, with brass cap marked,

1914 in S.rim;  
T 7 N, R. 14 W in N., and  
T 6 N in S.half;  
S 34 in NW.,  
S 35 in NE.,  
S 2 in SE., and  
S 3 in SW. quadrants;

dig pits 18x18x12 ins., in each sec. 5 1/2 ft. dist., and raise a mound of earth 4 ft. base, 2 ft. high, W. of cor.

Land, rolling.  
Soil, rocky, 4th rate.  
Timber, palo verde.  
Undergrowth, greasewood brush, ocotillo.  
At this cor., I set off 22° 25' N. on decl. arc; and at 11h. 58m. a.m., observe the sun on the meridian; resulting lat. is 33° 54' N.

West, bet. secs. 3 and 34.

- Over rolling land.
- 16.70 Ravine, 100 lks. wide, 15 ft. deep, course NW.
- 26.60 Ravine, 75 lks. wide, 10 ft. deep, course NW.
- 29.00 Ravine, 75 lks. wide, 10 ft. deep, course N. 10° E.

South boundary of Township 7 North, Range 14 West.

Chains.

36.90 Dry wash, 200 lks.wide, 30 ft.banks, course N.  
 40.00 Set an iron post 3 ft.long 1 in. in diam., 26 ins. in the ground for  $\frac{1}{4}$  sec.cor., with brass cap marked, 1914 in S.rim;  $\frac{1}{4}$  S 34 in N., and S 3 in S.half; dig pits 18x18x12 ins., E.and W.of cor.3 ft. dist., and raise a mound of earth  $3\frac{1}{2}$  ft. base,  $1\frac{1}{2}$  ft. high, north of cor.  
 63.00 Road brs.N.and S.  
 79.80 Dry wash, 30 lks.wide, 1 ft.banks, course N.10° E.  
 80.00 Point for sec.cor. falls in above wash, impracticable to establish cor.at this point; therefore, continue west to  
 80.30 Set an iron post 3 ft.long, 3 ins. in diam., 24 ins. in the ground for witness cor.to cor.of secs.3,4,33 and 34, with brass cap marked, 1914 in S.rim; T 7 N, R 14 W in N., and T 6 N in S.half; W C N of center, S 33 in NW., S 34 in NE., S 3 in SE., and S 4 in SW.quadrants; dig pits 18x18x12 ins. in each sec.  $5\frac{1}{2}$  ft. dist., and raise a mound of earth 4 ft.base, 2 ft.high, west of cor.  
 Land, rolling.  
 Soil, rocky, 4th rate.  
 Timber, palo verde.  
 Undergrowth, greasewood brush, ocotillo and giant cactus.

West, bet. secs.4 and 33, from true point for cor.of secs. 3,4,33 and 34.

Over level land, with gradual drain to north.  
 Witness cor.to cor.of secs. 3,4,33 and 34.

0.30 Road brs.N.and S.  
 10.10 Dry wash, 20 lks.wide, 1 ft.banks, course N.5°W.  
 22.75 Dry wash, 50 lks.wide, 1 ft.banks, course N.5°W.  
 37.50 Set an iron post 3 ft.long, 1 in. in diam., 26 ins. in the ground for  $\frac{1}{4}$  sec.cor., with brass cap marked, 1914 in S.rim;  $\frac{1}{4}$  S 33 in N., and S 4 in S.half; dig pits 18x18x12 ins., E.and W.of cor. 3 ft.dist., and raise a mound of earth  $3\frac{1}{2}$  ft. base,  $1\frac{1}{2}$  ft. high, north of cor.  
 44.70 Dry wash, 50 lks.wide, 1 ft. banks, course N.10°W.  
 48.10 Dry wash, 75 lks.wide, 1 ft.banks, course N.5°W.  
 52.50 Dry wash, 75 lks.wide, 1 ft.banks, course north.  
 80.00 Set an iron post 3 ft.long, 3 ins. in diam., 24 ins. in the ground for cor.of secs.4,5,32 and 33, with brass cap marked, 1914 in S.rim; T 7 N R 14 W in N., and T 6 N in S.half; S 32 in NW., S 33 in NE., S 4 in SE., and S 5 in SW.quadrants; dig pits 18x18x12 ins., in each sec.  $5\frac{1}{2}$  ft. dist., and raise a mound of earth 4 ft.base, 2 ft.high, west of cor.  
 Land, level.  
 Soil, sandy and gravelly, 3rd rate.  
 Timber, ironwood and palo verde.  
 Undergrowth, greasewood brush, ocotillo.

60. South boundary of Township 7 North, Range 14 West.

Chains.

West, bet. secs. 5 and 32.  
Over level land.

33.20 Dry wash, 40 lks. wide, 2 ft. banks, course NW.  
40.00 Set an iron post 3 ft. long, 1 in. in diam., 12 ins. in the ground (could not set deeper for solid stone), build mound of stone 3 ft. base, 3 ft. high around post, for  $\frac{1}{4}$  sec. cor., with brass cap marked,  
1914 in S. rim;  
 $\frac{1}{4}$  S 32 in N., and  
S 5 in S. half;  
pits impracticable; build a mound of stone 3 ft. base, 3 ft. high, north of cor.

46.00 Dry wash, 40 lks. wide, 2 ft. banks, course N.  
68.00 Dry wash, 75 lks. wide, 3 ft. banks, course NW.  
80.00 Set an iron post 3 ft. long, 3 ins. in diam., 24 ins. in the ground for cor. of secs. 5, 6, 31 and 32, with brass cap marked,  
1914 in S. rim;  
T 7 N R 14 W in N., and  
T 6 N in S. half;  
S 31 in NW.  
S 32 in NE.;  
S 5 in SE., and  
S 6 in SW. quadrants;  
pits impracticable. Build a mound of stone 3 ft. base, 3 ft. high, west of cor.  
Land, level.  
Soil, sandy and gravelly, 3rd rate.  
Timber, ironwood and palo verde.  
Undergrowth, greasewood brush, ocotillo.  
June 4, 1914.

June 5, 1914:  
At 8h. a.m., l.m.t., I set off  $22^{\circ} 31' N$ , on the decl. arc;  $33^{\circ} 54' N$  on the lat. arc, and determine a meridian with the solar at the cor. of secs. 5, 6, 31 and 32.  
Thence I run,  
West, bet. secs. 6 and 31.  
Over gradual NW. slope.

14.50 Dry wash, 100 lks. wide, 2 ft. banks, course  $N. 75^{\circ} W$ .  
24.20 Ravine, 100 lks. wide, 20 ft. deep, course  $N. 80^{\circ} W$ .  
27.80 Dry wash 150 links wide, 20 ft. banks, course  $N. 10^{\circ} W$ .  
40.00 Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in the ground for  $\frac{1}{4}$  sec. cor., with brass cap marked,  
1914 in S. rim;  
 $\frac{1}{4}$  S 31 in N., and  
S 6 in S. half;  
pits impracticable. Build a mound of stone 3 ft. base, 3 ft. high, north of cor.

43.00 Ravine, 100 lks. wide, 15 ft. deep, course  $N. 10^{\circ} W$ .  
65.00 Ravine, 75 lks. wide, 5 ft. deep, course NW.  
74.50 Dry wash, 75 lks. wide, 3 ft. banks, course  $N. 15^{\circ} W$ .  
78.00 Set temp. cor. of Ts. 6 and 7 N., Rs. 14 and 15 W.  
Land, gradual NW. slope.  
Soil, sandy and gravelly, 3rd rate.  
Timber, ironwood and palo verde.  
Undergrowth, greasewood brush, ocotillo.

June 5, 1914.

(To be continued.)

W. K. K.

East boundary of Township 7 North, Range 14 West. 61.

Chains.

W.H.T.

June 4, 1914: At 9h. a.m., l.m.t., I set off 33°54' N. on lat. arc; 22°24' N. on decl. arc; and determine a meridian with the solar at the cor. of Ts. 6 and 7 N., Rs. 13 and 14 W., established by W. K. Kierulff, as hereinbefore described.

Thence I run, on east boundary of T. 7 N., R. 14 W., on true line, as follows:

North, bet. secs. 31 and 36.

Over mountainous land.

Ascend over broken west slope.

37.00 Ravine, 100 lks. wide, 12 ft. deep, course S. 50° W.

40.00 Set an iron post 3 ft. long, 1 in. in diam., in a mound of stone 4 ft. base, 2 1/2 ft. high for 1/4 sec. cor., with brass cap marked,

1/4 S 36 in W., and  
S 31 in E. half;  
1914 in S. rim;

pits impracticable; build a mound of stone 3 ft. base, 2 ft. high, west of cor. Ascend south slope.

66.65 Top of ridge, 900 ft. ascent.

Descend steep rocky north slope.

78.20 Ravine, 20 lks. wide, 4 ft. deep, course N. 70° W.

80.00 Point for sec. cor. falls on steep rock on SW. slope; impossible to set cor. at this point; therefore at

79.00 Set an iron post 3 ft. long, 3 ins. in diam., 12 ins. in the ground (could not set deeper for solid rock); build mound of stone 4 ft. base, 1 1/2 ft. high around post for witness cor. to cor. of secs. 25, 30, 31 and 36, with brass cap marked,

T 7 N in N. half;  
R 14 W S 25 in NW.  
R 13 W, S 30 in NE;  
S 31 in SE., and  
S 36 in SW. quadrants;  
W C N of center,  
1914 in S. rim;

pits impracticable. Build a mound of stone 3 ft. base, 2 1/2 ft. high, west of cor.

Land, mountainous.

Soil, rocky, 4th rate.

Timber, scrub palo verde.

Undergrowth, scattering greasewood brush; ocotillo and giant cactus.

At this cor., I set off 22°25' N. on decl. arc; and at 11h. 58m. a.m., l.m.t., observe the sun on the meridian; the resulting lat. is 33°55' N.

North, bet. secs. 25 and 30, from true point for cor. of secs. 25, 30, 31 and 36.

Ascend steep rocky SW. slope.

10.30 Harcuvar Peak 2320 ft. high, brs. N. 88°30' E. about 100 chains.

Top of ridge, 570 ft. high, brs. N. 45° W., and S. 40° E.  
Descend over N. slope.

30.55 Ravine 100 lks. wide, 12 ft. deep, course NW.

40.00 Point for 1/4 sec. cor. falls in ravine, 40 lks. wide, 4 ft. banks, course west. Impracticable to establish cor. at this point; therefore, at

39.00 Set an iron post 3 ft. long, 1 in. in diam., in a mound of stone 3 ft. base, 2 1/2 ft. high for witness cor. to 1/4 sec. cor., with brass cap marked,

W C 1/4 S 25 in W., and  
S 30 in E. half;  
1914 in S. rim;

pits impracticable. Build a mound of stone 4 ft.

## 62. East boundary of Township 7 North, Range 14 West.

Chains.

- base, 3 ft. high, west of cor.
- 45.60 Ascend steep rocky SW. slope.
- 69.26 Top of ridge, 860 ft. high, brs. N. 58° W. and S. 58° E.  
Descend over rough and broken NE. slope.
- 80.00 True point for sec. cor. falls on steep rocky broken N. slope. Impracticable to establish cor. at this point; therefore, at
- 79.00 Set an iron post 3 ft. long, 3 ins. in diam., in a mound of stone 4 ft. base, 2½ ft. high for witness cor. to cor. of secs. 19, 24, 25 and 30, with brass cap, marked,  
T 7 N in N. half;  
R 14 W S 24 in NW.,  
R 13 W, S 19 in NE.,  
S 30 in SE., and  
S 25 in SW. quadrants;  
W C N of center,  
1914 in S. rim;  
pits impracticable. Build a mound of stone 3 ft. base, 2 ft. high, west of cor.
- Land, mountainous.  
Soil, rocky, 4th rate.  
Timber, scattering scrub palo verde.  
Undergrowth, scattering greasewood brush.  
Scattering ocotillo and giant cactus.

- North, bet. secs. 19 and 24, from true point for cor. of secs. 19, 24, 25 and 30.  
Descend steep rocky rough north slope.
- 40.00 True point for ¼ sec. cor. Ravine, 80 lks. wide, 5 ft. deep, course N. 70° W. Impracticable to establish cor. at this point; therefore, at
- 39.00 Set an iron post 3 ft. long, 1 in. in diam., 6 ins. in the ground (could not set deeper for solid stone) build mound of stone 4 ft. base, 2 ft. high, around post for witness cor. to ¼ sec. cor., with brass cap, marked,  
W C ¼ S 24 in W., and  
S 19 in E. half;  
1914 in S. rim;  
pits impracticable. Build a mound of stone 3 ft. base, 2 ft. high, west of cor.
- 46.50 Ravine, 60 lks. wide, 8 ft. deep, course N. 70° W.
- 67.60 Ravine, 25 lks. wide, 5 ft. deep, course N. 70° W.
- 80.00 Set an iron post, 3 ft. long, 3 ins. in diam., 24 ins. in the ground for cor. of secs. 13, 18, 19 and 24, with brass cap marked,  
T 7 N in N. half;  
R 14 W S 13 in NW.,  
R 13 W S 18 in NE.,  
S 19 in SE., and  
S 24 in SW. quadrants;  
1914 in S. rim;  
pits impracticable. Build a mound of stone 4 ft. base, 2½ ft. high, west of cor.
- Land, mountainous to 41.00 chs.; thence rolling.  
Soil, rocky, 4th rate.  
Timber, scrub palo verde.  
Undergrowth, greasewood brush, cholla and giant cactus.  
June 4, 1914.

June 5, 1914.

At 10h. a.m., l.m.t., I set off 33° 56½' N. on lat. arc; 22° 31' W. on the decl. arc; and determine a meridian with the solar at the cor. of secs. 13, 18, 19 and 24.

Thence I run,

North, bet. secs. 13 and 18.

## East boundary of Township 7 North, Range 14 West. 63.

Chains.

- Descend gradual NW. slope.
- 5.00 Ravine, 100 lks.wide, 8 ft.deep, course N.80°W.
- 22.90 Dry wash, 80 lks.wide, 5 ft.banks, course N.70°W.
- 40.00 Set an iron post 3 ft.long, 1 in. in diam., 26 ins. in the ground for  $\frac{1}{4}$  sec.cor., with brass cap, marked,  
 $\frac{1}{4}$  S 13 in W. and  
 S 18 in E.half;  
 1914 in S.rim;  
 dig pits 18x18x12 ins., N.and S.of cor., 3 ft. dist., and raise a mound of earth  $3\frac{1}{2}$  ft.base,  $1\frac{1}{2}$  ft.high, west of cor.
- 80.00 Set an iron post, 3 ft.long, 3 ins. in diam., 24 ins. in the ground for cor.of secs.7,12,13, and 18,with brass cap marked,  
 T 7 N in N.half;  
 R 14 W S 12 in NW.,  
 R 13 W S 7 in NE.,  
 S 18 in SE., and  
 S 13 in SW.quadrants;  
 1914 in S.rim  
 dig pits 18x18x12 ins., in each sec.  $5\frac{1}{2}$  ft. dist., and raise a mound of earth 4 ft. base, 2 ft.high, west of cor.
- Land,level with gradual NW. slope.  
 Soil, gravelly, 4th rate.  
 Timber, scattering palo verde and ironwood.  
 Undergrowth, greasewood brush, 4 to 5 ft.high.  
 Ocotillo and giant cactus.

- North, bet. secs.7 and 12.
- 40.00 Over level land, very gradual NW. slope.  
 Set an iron post 3 ft.long, 1 in. in diam., 26 ins. in the ground for  $\frac{1}{4}$  sec.cor., with brass cap marked,  
 $\frac{1}{4}$  S 12 in W.,and  
 S 7 in E.half;  
 1914 in S.rim;  
 dig pits 18x18x12 ins., N.and S.of cor. 3 ft. dist., and raise a mound of earth  $3\frac{1}{2}$  ft. base,  $1\frac{1}{2}$  ft. high, west of cor.
- 80.00 Set an iron post 3 ft.long, 3 ins. in diam., 24 ins. in the ground for cor.of secs.1,6,7 and 12,with brass cap marked,  
 T 7 N in N.half;  
 R 14 W S 1 in NW.,  
 R 13 W S 6 in NE.,  
 S 7 in SE., and  
 S 12 in SW.quadrants;  
 1914 in S.rim;  
 dig pits 18x18x12 ins., in each sec.  $5\frac{1}{2}$  ft. dist.,and raise a mound of earth 4 ft.base, 2 ft.high, west of cor.
- Land,level, with gradual NW. slope.  
 Soil, gravelly, 3rd rate.  
 No timber.  
 Undergrowth, greasewood brush, 4 ft.high.  
 Ocotillo and giant cactus.  
 At this point, I set off  $22^{\circ}31\frac{1}{2}'$ N. on the decl.arc;and at 11h. 58m. a.m.,l.m.t., observe the sun on the meridian; the resulting lat.is  $33^{\circ}58'$ N.

- North, bet. secs.1 and 6.
- 40.00 Over level land.  
 Set an iron post 3 ft.long,1 in. in diam., 26 ins. in the ground for  $\frac{1}{4}$  sec.cor., with brass cap marked,  
 $\frac{1}{4}$  S 1 in W., and  
 S 6 in E.half;

64. East boundary of Township 7 North, Range 14 West.

Chains.

1914 in S. rim;  
 dig pits 18x18x12 ins., N. and S. of cor. 3 ft. dist.,  
 and raise a mound of earth 3 1/2 ft. base, 1 1/2 ft. high,  
 west of cor.

80.00 Set an iron post, 3 ft. long, 3 ins. in diam., 24 ins. in  
 the ground for cor. of Ts. 7 and 8 N., Rs. 13 and 14 W.,  
 with brass cap marked,

1914 in S. rim;  
 T 8 N in N., and  
 T 7 N in S. half;  
 R 14 W S 36 in NW.,  
 R 13 W, S 31 in NE.,  
 S 6 in SE., and  
 S 1 in SW. quadrants;

dig pits 24x24x12 ins. crosswise on each line, E. and  
 W., and N. of cor., 4 ft., and S. of cor. 8 ft. dist.,  
 raise a mound of earth 5 ft. base, 2 1/2 ft. high, S. of  
 cor.

Land, level.  
 Soil, gravelly, 3rd rate.  
 Timber none.  
 Undergrowth, greasewood brush, 3 to 4 ft. high.  
 Ocotillo and cactus.

June 5, 1914.  
 W. H. T.

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West boundary of Township 6 North, Range 14 West. 65.

Chains.

W.K.K.  
 June 5, 1914 (continued)  
 From the temporary cor. of Ts. 6 and 7 N., Rs. 14 and 15 W., set by me when surveying the south bdy. of T. 7 N., R. 14 W., as hereinbefore described, I run south on a random line along the west bdy. of T. 6 N., R. 14 W., setting temp.  $\frac{1}{4}$  sec. and sec. cors. at intervals of 40 chs.

80.00 Temp. cor. of secs. 1, 6, 7 and 12. At this point, I set off  $22^{\circ}31\frac{1}{2}'N.$  on decl. arc; and at 11h. 58m., a.m., l.m.t., I observe the sun on the meridian. The resulting lat. is  $33^{\circ}53'N.$

Continue line and measurement. June 5, 1914.

June 6, 1914:

240.00 Temp. cor. of secs. 13, 18, 19 and 24. At 9h. a.m., l.m.t., I set off  $33^{\circ}51'N.$  on the lat. arc;  $22^{\circ}37\frac{1}{2}'N.$  on the decl. arc; and determine a meridian with the solar at this point.

400.00 Temp. cor. of secs. 25, 30, 31 and 36. At this point, I set off  $22^{\circ}38'N.$  on the decl. arc; and at 11h. 58.3, a.m., l.m.t., I observe the sun on the meridian; the resulting lat. is  $33^{\circ}49\frac{1}{2}'N.$

485.84 Fall 172 lks. west of the original cor. of Ts. 5 and 6 N., Rs. 14 and 15 W., which is an iron post 3 ins. in diam., with brass cap, marked and witnessed as described by the Surveyor General.

June 5 and 6, 1914.  
 W. K. K.

W.K.K.  
 June 8, 1914: At 8h. a.m., l.m.t., I set off  $33^{\circ}48\frac{1}{2}'N.$  on the lat. arc;  $22^{\circ}49\frac{1}{2}'N.$  on the decl. arc; and determine a meridian with the solar, at the original cor. of Ts. 5 and 6 N., Rs. 14 and 15 W., which is an iron post, with brass cap marked and witnessed as described by the Surveyor General.

Thence I run, on west bdy. of T. 6 N., R. 14 W., on a true line, as follows: North bet. secs. 31 and 36.

.14 Dry wash, 100 lks. wide, 8 ft. banks, course west.

7.35 Ascend 80 ft. over steep rocky SE. slope.

12.35 Top of ascent.

Descend steep N. slope.

17.85 Foot of descent; 60 ft. descent.

19.85 Dry wash, 125 lks. wide, 4 ft. banks, course west.

23.80 Ascend 160 ft., over steep south slope.

30.85 Top of round hill.

Descend 100 ft. over steep NE. slope.

37.25 Foot of descent.

40.00 Set an iron post, 3 ft. long, 1 in. in diam., in a mound of stone 3 ft. base,  $2\frac{1}{2}$  ft. high for  $\frac{1}{4}$  sec. cor., with brass cap, marked,

$\frac{1}{4}$  S 36 in W., and  
 S 31 in E. half;  
 1914 in S. rim; pits impracticable.

build a mound of stone 3 ft. base, 3 ft. high, west of cor.

57.85 Ascend steep SE. slope.

63.35 Top of ascent on slope to east,  
 Descend N. slope.

69.80 Foot of descent. Dry wash, 100 lks. wide, 1 ft. banks, course west.

76.05 Road brs. N.  $80^{\circ}E.$  and S.  $80^{\circ}W.$

80.00 Set an iron post 3 ft. long, 3 ins. in diam., 12 ins. in the ground (could not set deeper for solid stone) build mound of stone 3 ft. base,  $1\frac{1}{2}$  ft. high around post for cor. of secs. 25, 30, 31 and 36, with brass cap marked,

T 6 N. in N. half;  
 R 15 W S 25 in NW.,  
 R 14 W, S 30 in NE.,

## 66. West boundary of Township 6 North, Range 14 West.

## Chains.

- S 31 in SE., and  
S 36 in SW. quadrants;  
1914 in S. rim;  
pits impracticable. Build a mound of stone 3 ft.  
base, 3 ft. high, west of cor.  
Land, mountainous.  
Soil, rocky, 4th rate.  
Timber, scattering palo verde.  
Undergrowth, scattering greasewood brush, ocotillo,  
cholla and giant cactus.
- 
- North, bet. secs. 25 and 30.  
Over mountainous land.  
.85 Dry wash, 100 lks. wide, 1 ft. banks, course west.  
14.80 Descend steep north slope.  
27.15 Trail, brs. E. and W.  
27.35 Foot of descent, 120 ft.  
Ascend 330 ft. over steep south slope.  
40.00 Set an iron post 3 ft. long, 1 in. in diam., in a mound  
of stone 3 ft. base, 2½ ft. high for ¼ sec. cor., with  
brass cap marked,  
¼ S 25 in W. and  
S 30 in E. half;  
1914 in S. rim;  
pits impracticable. Build a mound of stone 3 ft.  
base, 3 ft. high, west of cor.  
41.25 Top of ascent on spur ridge, brs. E. and W.  
Descend 300 ft., over steep NW. slope.  
58.80 Foot of descent; dry wash, 100 lks. wide, 5 ft. banks,  
course west.  
Ascend 120 ft. over steep S. slope.  
66.85 Top of ascent.  
Descend steep north slope, 125 ft.  
74.35 Foot of descent; road brs. E. and W.  
74.40 Dry wash, 75 lks. wide, 6 ft. banks, course west.  
Ascend 130 ft. to cor., over steep SW. slope.  
80.00 Set an iron post 3 ft. long, 3 ins. in diam., in a mound  
of stone 3 ft. base, 2½ ft. high, for cor. of secs. 19,  
24, 25 and 30, with brass cap marked,  
T 6 N in N. half;  
R 15 W S 24 in NW.  
R 14 W, S 19 in NE;  
S 30 in SE., and  
S 25 in SW. quadrants;  
1914 in S. rim;  
pits impracticable. Build a mound of stone 3 ft.  
base, 3 ft. high, west of cor.  
Land, mountainous.  
Soil, rocky, 4th rate.  
Timber, scattering palo verde.  
Undergrowth, scattering greasewood brush. Ocotillo,  
cholla and giant cactus.
- 
- North, bet. secs. 19 and 24.  
Over mountainous land.  
4.85 Ascend steep SW. slope, 100 ft. to  
Top of ascent.  
Descend steep NE. slope.  
17.80 Foot of descent in draw, course west.  
Ascend steep SW. slope.  
24.85 Top of ascent on spur ridge, brs. NW. and SE.  
Descend steep NE. slope.  
40.00 Set an iron post 3 ft. long, 1 in. in diam., in a mound  
of stone 3 ft. base, 2½ ft. high for ¼ sec. cor., with  
brass cap marked,

West boundary of Township 6 North, Range 14 West. 67.

Chains.

$\frac{1}{4}$  S 24 in W., and  
 $\frac{1}{4}$  S 19 in E. half;  
 1914 in S. rim;  
 pits impracticable. Build a mound of stone 3 ft.  
 base, 3 ft. high west of cor.  
 40.85 Foot of 240 ft. descent.  
 55.80 Dry wash, 200 lks. wide, 2 ft. banks, course west.  
 67.84 Ascend 350 ft. to cor., over steep south slope.  
 80.00 Set an iron post, 3 ft. long, 3 ins. in diam., in a mound  
 of stone 3 ft. base, 2 $\frac{1}{2}$  ft. high, for cor. of secs. 13,  
 18, 19 and 24, with brass cap marked,  
 T 6 N in N. half;  
 R 15 W, S 13 in NW.  
 R 14 W S 18 in NE.,  
 S 19 in SE. and  
 S 24 in SW. quadrants;  
 1914 in S. rim;  
 pits impracticable. Raise a mound of stone 3 ft. base,  
 3 ft. high, west of cor.  
 Land, mountainous.  
 Soil, rocky, 4th rate.  
 Timber, scattering palo verde.  
 Undergrowth, scattering greasewood brush, cholla, ocotillo  
 and giant cactus.

North, bet. secs. 13 and 18.

Over mountainous land.  
 Over steep SW. slope. Ascend 100 ft. to  
 11.65 Top of ridge, brs. N. 75° W. and S. 75° E.  
 Thence over steep rocky NE. slope; descend 370 ft. to  
 29.85 Dry wash, 100 lks. wide, 1 ft. banks, course west.  
 38.10 Dry wash, 100 lks. wide, 1 ft. banks, course N. 80° W.  
 40.00 Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in  
 the ground for  $\frac{1}{4}$  sec. cor., with brass cap, marked,  
 $\frac{1}{4}$  S 13 in W., and  
 $\frac{1}{4}$  S 18 in E. half;  
 1914 in S. rim;  
 dig pits 18x18x12 ins., N. and S. of cor. 3 ft. dist.,  
 and raise a mound of earth 3 $\frac{1}{2}$  ft. base, 1 $\frac{1}{2}$  ft. high,  
 west of cor.  
 65.35 Dry wash, 50 lks. wide, 1 ft. banks, course west.  
 80.00 Set an iron post 3 ft. long, 3 ins. in diam., in a mound  
 of stone 3 ft. base, 2 $\frac{1}{2}$  ft. high for cor. of secs. 7, 12,  
 13 and 18, with brass cap, marked,  
 T 6 N in N. half;  
 R 15 W, S 12 in NW.,  
 R 14 W S 7 in NE.,  
 S 18 in SE., and  
 S 13 in SW. quadrants;  
 1914 in S. rim;  
 pits impracticable. Build a mound of stone 3 ft.  
 base, 3 ft. high, west of cor.  
 Land, mountainous and rolling.  
 Soil, rocky, 4th rate.  
 Timber, scattering palo verde and ironwood.  
 Undergrowth, scattering greasewood brush and ocotillo;  
 cholla and giant cactus.

North, bet. secs. 7 and 12.

Over rolling and mountainous land.  
 5.04 Dry wash, 100 lks. wide, 1 ft. banks, course N. 80° W.  
 12.35 Dry wash, 150 lks. wide, 3 ft. banks, course S. 80° W.  
 30.50 Dry wash, 75 lks. wide, 10 ft. banks, course W.  
 37.85 Ascend steep S. slope.

68. West boundary of Township 6 North Range 14 West.

Chains.

- 40.00 Set an iron post 3 ft. long, 1 in. in diam., 12 ins. in the ground (could not set deeper for solid rock); build mound of stone 3 ft. base, 1½ ft. high, around post for ¼ sec. cor., with brass cap marked,  
 ½ S 12 in W. and  
 S 7 in E. half;  
 1914 in S. rim;  
 pits impracticable. Build a mound of stone 3 ft. base, 3 ft. high, west of cor.
- 49.25 Top of ascent on spur of ridge, brs. E. and W.  
 Thence over steep north slope; descend 100 ft. to
- 54.85 Dry wash, 100 lks. wide, 6 ft. banks, course west.  
 Thence over steep rocky south slope. Ascend 470 ft. to
- 74.10 Top of ridge, brs. E. and W. Thence over steep N. slope.  
 Descend 220 ft. to
- 80.00 Set an iron post 3 ft. long, 3 ins. in diam., in a mound of stone 3 ft. base, 3 ft. high, for cor. of secs. 1, 6, 7 and 12, with brass cap marked,  
 T 6 N in N. half;  
 R 15 W, S 1 in NW.  
 R 14 W, S 6 in NE.;  
 S 7 in SE., and  
 S 12 in SW. quadrants;  
 1914 in S. rim;  
 pits impracticable. Build a mound of stone 3 ft. base, 3 ft. high, west of cor.  
 Land, rolling and mountainous.  
 Soil, rocky, 4th rate.  
 Timber, scattering palo verde.  
 Undergrowth, cholla and ocotillo cactus.  
 Giant cactus.

- North, bet. secs. 1 and 6.  
 Over mountainous and rolling land.  
 Along top of ridge on steep north slope. Descend 320 ft.
- 40.00 Set an iron post 3 ft. long, 1 in. in diam., in a mound of stone 3 ft. base, 2½ ft. high for ¼ sec. cor., with brass cap marked,  
 ½ S 1 in W., and  
 S 6 in E. half;  
 1914 in S. rim;  
 pits impracticable. Build a mound of stone 3 ft. base, 3 ft. high, west of cor.
- 40.85 Foot of descent; thence slightly rolling land.
- 50.80 Ravine, 100 lks. wide, 20 ft. deep; course NE.
- 56.85 Dry wash, 200 lks. wide, 20 ft. banks, course west.
- 63.90 Road brs. E. and W.
- 75.65 Dry wash, 20 lks. wide, 1 ft. banks, course NW.
- 85.84 Intersect south bdy. of T. 7 N., R. 14 W., 172 lks. east of the temp. cor. of Ts. 6 and 7 N., Rs. 14 and 15 W.; therefore, the length of the south bdy. of T. 7 N., R. 14 W. is 476.28 chs. At point of intersection,  
 Set an iron post 3 ft. long, 3 ins. in diam., 24 ins. in the ground for cor. of Ts. 6 and 7 N., Rs. 14 and 15 W., with brass cap, marked,  
 1914 in S. rim;  
 T 7 N in N., and  
 T 6 N in S. half;  
 R 15 W, S 36 in NW.,  
 R 14 W, S 31 in NE.,  
 S 6 in SE., and  
 S 1 in SW. quadrants;  
 pits impracticable. Raise a mound of stone 3 ft. base, 3½ ft. high, south of cor.  
 Land, rolling and mountainous.  
 Soil, rocky, 4th rate.  
 Timber, scattering palo verde,  
 Undergrowth, greasewood brush, cholla and ocotillo.  
 June 8, 1914.

W. K. K.

West boundary of Township 7 North, Range 14 West. 69

Chains.

W. K. K.

June 9, 1914: At 8h. a.m., l.m.t., I set off 22°55' N. on the decl. arc; 33° 54' N. on the lat. arc, and determine a meridian with the solar at the cor. of Ts. 6 and 7 N., Rs. 14 and 15 W., established by me, as hereinbefore described.

Thence I run, on west bdy. of Tp. 7 N., R. 14 W., on true line; as follows:

North, bet. secs. 31 and 36.

Over rolling land;

2.10 Dry wash, 75 lks. wide, 3 ft. banks, course NW.

7.00 Ravine, 100 links wide, 6 ft. deep, course west.

28.70 Dry wash, 100 lks. wide, 20 ft. banks, course N. 80° W.

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

$\frac{1}{4}$  S 36 in W., and

S 31 in E. half;

1914 in S. rim;

dig pits 18x18x12 ins., N. and S. of cor., 3 ft. dist., and raise a mound of earth  $3\frac{1}{2}$  ft. base,  $1\frac{1}{2}$  ft. high, west of cor.

50.75 Dry wash, 15 lks. wide, 2 ft. banks, course NW.

80.00 Set an iron post 3 ft. long, 3 ins. in diam., 24 ins. in the ground for cor. of secs. 25, 30, 31, and 36, with brass cap marked,

T 7 N in N. half;

R 15 W S 25 in NW.,

R 14 W, S 30 in NE.,

S 31 in SE., and

S 36 in SW. quadrants;

1914 in S. rim;

dig pits 18x18x12 ins., in each sec.  $5\frac{1}{2}$  ft. dist., and raise a mound of earth 4 ft. base, 2 ft. high, W. of cor.

Land, rolling.

Soil, sandy and gravelly, 3rd rate.

Timber, palo verde and ironwood.

Undergrowth, greasewood brush and cactus.

Ocotillo.

North, bet. secs. 25 and 30.

Over level land.

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

$\frac{1}{4}$  S 25 in W. and

S 30 in E. half;

1914 in S. rim;

dig pits 18x18x12 ins., N. and S. of cor., 3 ft. dist., and raise a mound of earth  $3\frac{1}{2}$  ft. base,  $1\frac{1}{2}$  ft. high, west of cor.

80.00 Set an iron post, 3 ft. long, 3 ins. in diam., 24 ins. in the ground for cor. of secs. 19, 24, 25 and 30, with brass cap marked,

T 7 N in N. half;

R 15 W S 24 in NW.,

R 14 W, S 19 in NE.,

S 30 in SE., and

S 25 in SW. quadrants;

1914 in S. rim;

dig pits 18x18x12 ins., in each sec.  $5\frac{1}{2}$  ft. dist., and raise a mound of earth 4 ft. base, 2 ft. high, west of cor.

Land, level.

Soil, sandy and gravelly, 3rd rate.

Timber, palo verde and ironwood.

Undergrowth, greasewood and cactus.

Ocotillo.

## 70 West boundary of Township 7 North Range 14 West.

Chains.

North, bet. secs. 19 and 24.  
Over level land.

40.00 Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in the ground for  $\frac{1}{4}$  sec. cor., with brass cap marked,  
 $\frac{1}{4}$  S 24 in W., and  
 S 19 in E. half;  
 1914 in S. rim;  
 dig pits 18x18x12 ins., N. and S. of cor., 3 ft. dist., and raise a mound of earth  $3\frac{1}{2}$  ft. base,  $1\frac{1}{2}$  ft. high, west of cor.

76.00 Dry wash, 30 lks. wide, 1 ft. banks, course west.

80.00 Set an iron post 3 ft. long, 3 ins. in diam., 24 ins. in the ground for cor. of secs. 13, 18, 19 and 24, with brass cap marked,  
 T 7 N in N. half;  
 R 15 W, S 13 in NW.,  
 R 14 W, S 18 in NE.,  
 S 19 in SE., and  
 S 24 in SW. quadrants;  
 1914 in S. rim;  
 dig pits 18x18x12 ins., in each sec.  $5\frac{1}{2}$  ft. dist., and raise a mound of earth 4 ft. base, 2 ft. high, west of cor.

Land, level.  
Soil on south half, gravel and sand, 3rd rate; on north half, sandy, 2nd rate.  
Timber, palo verde and ironwood.  
Undergrowth, greasewood brush and cactus.  
At this cor., I set off  $22^{\circ} 55\frac{1}{2}'$  N. on the decl. arc; and at 11h. 59m. a.m., l.m.t., I observe the sun on the meridian; the resulting lat. is  $33^{\circ} 56\frac{1}{2}'$  N.

North, bet. secs. 13 and 18.  
Over level land.

40.00 Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in the ground for  $\frac{1}{4}$  sec. cor., with brass cap marked,  
 $\frac{1}{4}$  S 13 in W., and  
 S 18 in E. half;  
 1914 in S. rim;  
 dig pits 18x18x12 ins., N. and S. of cor., 3 ft. dist., and raise a mound of earth  $3\frac{1}{2}$  ft. base,  $1\frac{1}{2}$  ft. high, west of cor.

40.50 Road brs. NW. and SE.

80.00 Set an iron post 3 ft. long, 3 ins. in diam., 24 ins. in the ground for cor. of secs. 7, 12, 13 and 18, with brass cap marked,  
 T 7 N in N. half;  
 R 15 W S 12 in NW.,  
 R 14 W S 7 in NE.,  
 S 18 in SE., and  
 S 13 in SW. quadrants;  
 1914 in S. rim;  
 dig pits 18x18x12 ins., in each sec.  $5\frac{1}{2}$  ft. dist., and raise a mound of earth 4 ft. base, 2 ft. high, west of cor.

Land, level.  
Soil, sandy, 2nd rate.  
Timber, ironwood and palo verde.  
Undergrowth, greasewood brush.

North, bet. secs. 7 and 12.  
Over level land.

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

West boundary of Township 7 North, Range 14 West. 71.

Chains.

80.00  $\frac{1}{4}$  S 12 in W., and  
 $\frac{1}{4}$  S 7 in E. half;  
 1914 in S. rim;  
 dig pits 18x18x12 ins., N. and S. of cor., 3 ft. dist.,  
 and raise a mound of earth  $3\frac{1}{2}$  ft. base,  $1\frac{1}{2}$  ft. high,  
 west of cor.  
 Set an iron post, 3 ft. long, 3 ins. in diam., 24 ins.  
 in the ground for cor. of secs. 1, 6, 7 and 12, with brass  
 cap marked,  
 T 7 N in N. half;  
 R 15 W S 1 in NW.  
 R 14 W S 6 in NE.;  
 S 7 in SE., and  
 S 12 in SW. quadrants;  
 1914 in S. rim;  
 dig pits 18x18x12 ins., in each sec.  $5\frac{1}{2}$  ft. dist., and  
 raise a mound of earth 4 ft. base, 2 ft. high, W. of  
 cor.  
 Land, level.  
 Soil, sandy, 2nd rate.  
 Timber, palo verde and ironwood.  
 Undergrowth, greasewood, cactus.  
 Ocotillo.

40.00 North, bet. secs. 1 and 6.  
 Over level land.  
 Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in  
 the ground for  $\frac{1}{4}$  sec. cor.,  
 brass cap marked.  
 $\frac{1}{4}$  S 1 in W., and  
 S 6 in E. half;  
 1914 in S. rim;  
 dig pits 18x18x12 ins., N. and S. of cor. 3 ft. dist.,  
 and raise a mound of earth  $3\frac{1}{2}$  ft. base,  $1\frac{1}{2}$  ft. high,  
 west of cor.  
 80.00 Set an iron post, 3 ft. long, 3 ins. in diam., 24 ins. in  
 the ground for cor. of Ts. 7 and 8 N., Rs. 14 and 15  
 W., with brass cap, marked,  
 1914 in S. rim;  
 T 8 N in N., and  
 T 7 N in S. half;  
 R 15 W S 36 in NW.,  
 R 14 W, S 31 in NE.,  
 S 6 in SE., and  
 S 1 in SW. quadrants;  
 dig pits 24x24x12 ins. crosswise on each line, E., W.  
 and N. of cor. 4 ft., and S. of cor., 8 ft. dist., and  
 raise a mound of earth 5 ft. base,  $2\frac{1}{2}$  ft. high, S. of  
 cor.  
 Land, level.  
 Soil, sandy, 2nd rate.  
 Timber, palo verde and ironwood.  
 Undergrowth, greasewood and cactus.

June 9, 1914.  
W.K.K.

## 72. North boundary of Township 7 North, Range 14 West.

Chains.

W.H.T.

June 5, 1914: At 2h. p.m., l.m.t., I set off  $22^{\circ} 32' N.$  on decl.arc;  $33^{\circ} 59' N.$  on the lat.arc; and determine a meridian with the solar at the cor. of Ts. 7 and 8 N., Rs. 13 and 14 W., established by me, as hereinbefore described.

Thence I run,

West, on a random line, setting temp.  $\frac{1}{4}$  sec. and sec. cors. at intervals of 40.00 chs.

June 5, 1914.

June 10, 1914:

320.00 Set temp. cor. of secs. 4, 5, 32 and 33. At 2h. p.m., l.m.t. I set off  $23^{\circ} 0' 30'' N.$  on the decl.arc;  $33^{\circ} 59' N.$  on the lat.arc, and determine a meridian with the solar at this point.

Continue line and measurement.

475.61 Intersect west bdy. of T. 6 N., R. 14 W., 10 lks. south of the cor. of Ts. 7 and 8 N., Rs. 14 and 15 W., established by W.K. Kierulff, as hereinbefore described.

This falling answers to a correction of  $1\frac{2}{3}$  lks. N. per mile, or  $01'$  of arc.

June 15, 1914.

From the cor. of Ts. 7 and 8 N., Rs. 13 and 14 W., established by me, as hereinbefore described, I run on N. bdy. of T. 7 N., R. 14 W., on true line as follows:

N.  $89^{\circ} 59'$  W., bet. secs. 1 and 36,

Over level land.

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

1914 in S. rim;

 $\frac{1}{4}$  S 36 in N., and

S 1 in S. half;

dig pits  $18 \times 18 \times 12$  ins., E. and W. of cor. 3 ft. dist., and raise a mound of earth  $3\frac{1}{2}$  ft. base,  $1\frac{1}{2}$  ft. high, north of cor.

80.00 Set an iron post 3 ft. long, 3 ins. in diam., 24 ins. in the ground for cor. of secs. 1, 2, 35 and 36, with brass cap marked,

1914 in S. rim;

T 8 N, R 14 W in N., and

T 7 N in S. half;

S 35 in NW.,

S 36 in NE.,

S 1 in SE., and

S 2 in SW. quadrants;

dig pits  $18 \times 18 \times 12$  ins., in each sec.  $5\frac{1}{2}$  ft. dist., and raise a mound of earth 4 ft. base, 2 ft. high, west of cor.

Land, level.

Soil, sandy, 3rd rate.

No timber.

Undergrowth, greasewood, ocotillo.

N.  $89^{\circ} 59'$  W., bet. secs. 2 and 35.

Over level land.

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

1914 in S. rim;

 $\frac{1}{4}$  S 35 in N., and

S 2 in S. half;

dig pits  $18 \times 18 \times 12$  ins., E. and W. of cor., 3 ft. dist., and raise a mound of earth  $3\frac{1}{2}$  ft. base,  $1\frac{1}{2}$  ft. high, north of cor.

80.00 Set an iron post, 3 ft. long, 3 ins. in diam., 24 ins. in the ground, for cor. of secs. 2, 3, 34 and 35, with brass cap, marked,

1914 in S. rim;

North boundary of Township 7 North, Range 14 West. 73.

Chains.

T 8 N, R 14 W in N., and  
T 7 N in S. half;  
S 34 in NW.,  
S 35 in NE.,  
S 2 in SE., and  
S 3 in SW. quadrants;

dig pits 18x18x12 ins., in each sec. 5 1/2 ft. dist., and  
raise a mound of earth 4 ft. base, 2 ft. high, west of  
cor.

Land, level.  
Soil, sandy, 3rd rate.  
Timber, none.  
Undergrowth, greasewood brush. Ocotillo.

N. 89° 59' W., bet. secs. 3 and 34.

Over level land.

40.00 Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in  
the ground, for 1/4 sec. cor., with brass cap marked,  
1914 in S. rim;  
1/4 S 34 in N., and  
S 3 in S. half;

dig pits 18x18x12 ins., E. and W. of cor. 3 ft. dist.,  
and raise a mound of earth 3 1/2 ft. base, 1 1/2 ft. high,  
north of cor.

62.40 Dry wash, 15 lks. wide, 1 ft. banks, course N. 50° W.

80.00 Set an iron post 3 ft. long, 3 ins. in diam., 24 ins. in  
the ground, for cor. of secs. 3, 4, 33 and 34, with brass  
cap marked,

1914 in S. rim;  
T 8 N, R 14 W in N., and  
T 7 N in S. half;  
S 33 in NW.,  
S 34 in NE.,  
S 3 in SE., and  
S 4 in SW. quadrants;

dig pits 18x18x12 ins. in each sec. 5 1/2 ft. dist.,  
and raise a mound of earth 4 ft. base, 2 ft. high,  
west of cor.

Land, level.  
Soil, sandy, 3rd rate..  
No timber.  
Undergrowth, greasewood brush.

N. 89° 59' W., bet. secs. 4 and 33.

Over level land.

10.00 Dry wash, 10 lks. wide, 1 ft. banks, course N. 50° W.  
40.00 Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in  
the ground for 1/4 sec. cor., with brass cap marked,  
1914 in S. rim;  
1/4 S 33 in N., and  
S 4 in S. half;

dig pits 18x18x12 ins., E. and W. of cor. 3 ft. dist.,  
and raise a mound of earth 3 1/2 ft. base, 1 1/2 ft. high,  
north of cor.

80.00 Set an iron post, 3 ft. long, 3 ins. in diam., 24 ins. in  
the ground for cor. of secs. 4, 5, 32 and 33, with brass  
cap, marked,

1914 in S. rim;  
T 8 N R 14 W in N., and  
T 7 N in S. half;  
S 32 in NW.,  
S 33 in NE.,  
S 4 in SE., and  
S 5 in SW. quadrants;

dig pits 18x18x12 ins., in each sec. 5 1/2 ft. dist.,  
and raise a mound of earth 4 ft. base, 2 ft. high,

74. North boundary of Township 7 North, Range 14 West.

Chains.

west of cor.  
Land, level.  
Soil, sandy, 3rd rate.  
No timber.  
Undergrowth, greasewood.

40.00 N.89°59'W., bet. secs.5 and 32.  
Over level land.  
Set an iron post 3 ft.long, 1 in. in diam., 26 ins. in the ground for  $\frac{1}{4}$  sec.cor., with brass cap marked,  
1914 in S.rim;  
 $\frac{1}{4}$  S 32 in N., and  
S 5 in S.half;  
dig pits 18x18x12 ins., E.and W.of cor., 3 ft. dist., and raise a mound of earth  $3\frac{1}{2}$  ft. base,  $1\frac{1}{2}$  ft. high, north of cor.

80.00 Set an iron post 3 ft.long, 3 ins. in diam., 24 ins. in the ground, for cor.of secs.5,6, 31 and 32, with brass cap marked,  
1914 in S.rim;  
T 8 N, R 14 W in N., and  
T 7 N in S.half;  
S 31 in NW.,  
S 32 in NE.,  
S 5 in SE., and  
S 6 in SW.quadrants;  
dig pits 18x18x12 ins., in each sec.  $5\frac{1}{2}$  ft. dist., and raise a mound of earth 4 ft.base, 2 ft. high, W.of cor.  
Land, level.  
Soil, sandy, 3rd rate.  
Undergrowth, greasewood brush.

40.00 N.89° 59' W., bet. secs.6 and 31.  
Over level land.  
Set an iron post 3 ft.long, 1 in. in diam., 26 ins. in the ground for  $\frac{1}{4}$  sec.cor., with brass cap marked,  
1914 in S.rim;  
 $\frac{1}{4}$  S 31 in N., and  
S 6, in S.half;  
dig pits 18x18x12 ins., E.and W.of cor., 3 ft. dist., and raise a mound of earth  $3\frac{1}{2}$  ft. base,  $1\frac{1}{2}$  ft. high, north of cor.

75.61 Intersect cor.of Ts. 7 and 8 N.,Rs. 14 and 15 W., established by W. K. Kierulff, as hereinbefore described.  
Land, level.  
Soil, sandy, 3rd rate.  
No timber.  
Undergrowth, greasewood brush.

June 15, 1914.  
W. H. T.

West boundary of Township 8 North, Range 14 West. 75.

Chains.

W. K. K.  
June 15, 1914: At 9h. a.m., l.m.t., I set off 23°18'N. on decl. arc; 33°59'N. on the lat. arc; and determine a meridian with the solar at the cor. of Ts. 7 and 8 N., Rs. 14 and 15 W., established by me, as hereinbefore described.

Thence I run, on west bdy. of T. 8 N., R. 14 W., on a true line as follows;

North, bet. secs. 31 and 36.  
Over level land.

22.50 Dry wash, 20 lks. wide, 2 ft. banks, course S. 80° W.  
27.00 Cunningham Wash 100 links wide, 3 ft. banks, course S. 70° W.

40.00 Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in the ground for 1/4 sec. cor., with brass cap, marked, 1/4 S 36 in W., and S 31 in E. half; 1914 in S. rim;

dig pits 18x18x12 ins., N. and S. of cor., 3 ft. dist., and raise a mound of earth 3 1/2 ft. base, 1 1/2 ft. high, west of cor.

40p75 Dry wash, 15 lks. wide, 2 ft. banks, course S. 10° E.  
80.00 Set an iron post 3 ft. long, 3 ins. in diam., 24 ins. in the ground for cor. of secs. 25, 30, 31 and 36, with brass cap marked,

T 8 N in N. half;  
R 15 W, S 25 in NW.,  
R 14 W, S 30 in NE.,  
S 31 in SE., and  
S 36 in SW. quadrants;  
1914 in S. rim;

dig pits 18x18x12 ins., in each sec. 5 1/2 ft. dist., and raise a mound of earth 4 ft. base, 2 ft. high, west of cor.

Land, level.  
Soil, sandy, 2nd rate.  
Undergrowth, greasewood brush.  
Timber, ironwood and mesquite.

-----  
North, bet. secs. 25 and 30.  
Over level land.

16.00 Dry wash, 15 lks. wide, 2 ft. banks, course S. 5° E.  
40.00 Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in the ground, for 1/4 sec. cor., with brass cap marked, 1/4 S 25 in W., and S 30 in E. half; 1914 in S. rim;

dig pits 18x18x12 ins., N. and S. of cor., 3 ft. dist., and raise a mound of earth 3 1/2 ft. base, 1 1/2 ft. high, west of cor.

80.00 Set an iron post 3 ft. long, 3 ins. in diam., 24 ins. in the ground for cor. of secs. 19, 24, 25 and 30, with brass cap marked,

1914 in S. rim;  
T 8 N in N. half;  
R 15 W S 24 in NW.,  
R 14 W, S 19 in NE.,  
S 30 in SE., and  
S 25 in SW. quadrants;

dig pits 18x18x12 ins., in each sec. 5 1/2 ft. dist., and raise a mound of earth 3 1/2 ft. base, 1 1/2 ft. high, W. of cor.

Land, level.  
Soil, sandy, 2nd rate.  
Timber, mesquite and ironwood.  
Undergrowth, greasewood brush.  
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## 76. West boundary of Township 8 North, Range 14 West.

Chains.

- North, bet. secs. 19 and 24.  
Over level land.
- 40.00 Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in the ground for  $\frac{1}{4}$  sec. cor., with brass cap marked,  
 $\frac{1}{4}$  S 24 in W., and  
S 19 in E. half;  
1914 in S. rim;  
dig pits 18x18x12 ins., N. and S. of cor. 3 ft. dist., and raise a mound of earth  $3\frac{1}{2}$  ft. base,  $1\frac{1}{2}$  ft. high, west of cor.
- 64.70 Dry wash, 20 lks. wide, 1 ft. banks, course S. 70° E.
- 80.00 Set an iron post 3 ft. long, 3 ins. in diam., 24 ins. in the ground for cor. of secs. 13, 18, 19 and 24, with brass cap marked,  
T 8 N in N. half;  
R 15 W; S 13 in NW.  
R 14 W, S 18 in NE.;  
S 19 in SE., and  
S 24 in SW. quadrants;  
1914 in S. rim;  
dig pits 18x18x12 in each sec.  $5\frac{1}{2}$  ft. dist., and raise a mound of earth 4 ft. base, 2 ft. high, west of cor.  
Land, level.  
Soil, sandy and gravelly, 3rd rate.  
Timber, mesquite and palo verde.  
Undergrowth, greasewood brush, ocotillo and giant cactus.  
At this cor., I set off 23° 19' N. on the decl. arc; and at 12h. 0m. observe the sun on the meridian; the resulting lat. is 34° 02' N.
- 
- North, bet. secs. 13 and 18.  
Over level land.
- 20.00 Road brs. NW. and SE.
- 40.00 Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in the ground, for  $\frac{1}{4}$  sec. cor., with brass cap marked,  
 $\frac{1}{4}$  S 13 in W., and  
S 18 in E. half;  
1914 in S. rim;  
dig pits 18x18x12 ins., N. and S. of cor. 3 ft. dist., and raise a mound of earth  $3\frac{1}{2}$  ft. base,  $1\frac{1}{2}$  ft. high, west of cor.
- 80.00 Set an iron post, 3 ft. long, 3 ins. in diam., 24 ins. in the ground for cor. of secs. 7, 12, 13 and 18, with brass cap marked,  
T 8 N in N. half;  
R 15 W S 12 in NW.,  
R 14 W, S 7 in NE.,  
S 18 in SE., and  
S 13 in SW. quadrants;  
1914 in S. rim;  
pits impracticable. Build a mound of stone 3 ft. base, 3 ft. high, west of cor.  
Land, level.  
Soil, sandy and gravelly, 3rd rate.  
Timber, mesquite and palo verde.  
Undergrowth, greasewood brush, ocotillo and giant cactus.
- 
- North, bet. secs. 7 and 12.  
Over rolling land.
- 11.80 Road, Cunningham's Pass to Mine, brs. N. 20° W. and S. 20° E.
- 23.00 SE. cor. of Camp Claim, NE. corner of Pittsburg Mine No. 2, NW. cor. of Pittsburg Mine No. 1; SW. cor. of Copper Glance Mine No. 1, bear west 34 links dist.

West boundary of Township 8 North, Range 14 West. 77.

Chains.

23.50 Dry wash, 30 lks.wide, 3 ft.banks, course S.10°W.  
 35.50 Dry wash, 40 lks.wide. 2 ft.banks, course S.10° E.  
 40.00 Set an iron post 3 ft.long, 1 in. in diam., 26 ins. in  
 the ground for  $\frac{1}{4}$  sec.cor., with brass cap, marked,  
 $\frac{1}{4}$  S 12 in W., and  
 S 7 in E.half;  
 1914 in S.rim;  
 dig pits 18x18x12 ins., N.and S.of cor., 3 ft. dist.,  
 and raise a mound of earth  $3\frac{1}{2}$  ft. base,  $1\frac{1}{2}$  ft. high,  
 west of cor.

63.40 Dry wash, 50 lks.wide, 4 ft.banks, course S.80°E.  
 66.00 Ascend steep rocky south slope.  
 80.00 Set an iron post 3 ft.long, 3 ins. in diam., in a mound  
 of stone 3 ft.base,  $2\frac{1}{2}$  ft.high, for cor.of secs.1,6,  
 7 and 12, with a brass cap, marked,  
 T 8 N in N.half;  
 R 15 W, S 1 in NW.,  
 R 14 W, S 6 in NE.,  
 S 7 in SE., and  
 S 12 in SW. quadrants;  
 1914 in S.rim;  
 pits impracticable. Build a mound of stone 3 ft. base,  
 3 ft.high, west of cor.  
 Land, rolling and mountainous.  
 Soil, rocky, 4th rate.  
 Timber, ironwood and palo verde.  
 Undergrowth, greasewood brush; giant cactus.

North, bet. secs. 1 and 6.  
 Over mountainous land. Ascend.

2.60 Top of spur, brs.E.and W.  
 Descend steep rocky north slope.  
 16.20 Foot of descent. Dry wash in draw, 50 lks.wide, 2 ft.  
 banks, course S.80°E.

30.00 Ascend steep rocky broken SW. slope.  
 36.50 Top of hill.

Descend N. slope over boulders.  
 40.00 Set an iron post, 3 ft.long, 1 in. in diam., in a mound  
 of stone 3 ft.base,  $2\frac{1}{2}$  ft.high for  $\frac{1}{4}$  sec.cor.,with  
 brass cap marked,

$\frac{1}{4}$  S 1 in W., and  
 S 6 in E.half;  
 1914 in S.rim;

pits impracticable. Build a mound of stone 3 ft.base,  
 3 ft.high, west of cor.

June 15, 1914.

June 18, 1914.

42.50 Foot of descent. Ascend steep south slope.  
 54.00 Top of ascent. Thence along west slope.

59.00 Descend steep NW.slope.  
 64.95 Foot of descent.

65.20 Intersect Second Standard Parallel North, 1.70 chs.W.of  
 the Standard cor.of Ts. 9 N., Rs.14 and 15 W., es-  
 tablished by me, as described in Book "C."

As this point of intersection falls in a dry wash 75 lks.  
 wide, 3 ft.banks, course SW. where it would be imprac-  
 ticable to establish the closing cor., I return on line  
 to

63.70 Set an iron post, 3 ft.long, 3 ins. in diam., in a mound  
 of stone 3 ft.base,  $2\frac{1}{2}$  ft.high for witness cor.to closing  
 cor.of Ts.8 N.,Rs.14 and 15 W.,with a brass cap,marked

T 9 N in N.,and T 8 N in S.half;  
 W C C C,S.of center; R 15 W S 36 in NW.,  
 R 14 W, S 31 in NE.,S 6 in SE.,and  
 S 1 in SW.quadrants; 1914 in S.rim;Pits imprac-

ticable. Build mound of stone 3 ft.base, 3ft.high, S.of cor.

Land, mountainous. Soil, rocky, 4th rate. Timber, scatter-  
 ing palo verde. Undergrowth, greasewood brush, ocotillo  
 and giant cactus. June 18, 1914. W.K.K.

78. East boundary of Township 8 North, Range 14 West.

Chains.

W.H.T.

June 16, 1914: At 9h. a.m., l.m.t., I set off 23°21'N. on the decl.arc; 33°59'N. on the lat.arc; and determine a meridian with the solar at the cor.of Ts.7 and 8 N., Rs.13 and 14 W., established by me, as hereinbefore described.

Thence I run, on east bdy. of T.8 N., R.14 W., on true line, as follows:

North, bet. secs.31 and 36.

Over level land.

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

$\frac{1}{4}$  S 36 in W., and

S 31 in E.half;

1914 in S.rim;

dig pits 18x18x12 ins., N.and S.of cor., 3 ft. dist., and raise a mound of earth  $3\frac{1}{2}$  ft. base,  $1\frac{1}{2}$  ft. high, west of cor.

80.00 Set an iron post 3 ft.long, 3 ins. in diam., 24 ins. in the ground, for cor.of secs. 25,30,31 and 36, with brass cap, marked;

T 8 N in N.half;

R 14 W, S 25 in NW.

R 13 W, S 30 in NE.;

S 31 in SE., and

S 36 in SW.quadrants;

1914 in S.rim; dig pits 18x18x12 ins., in each sec.  $5\frac{1}{2}$  ft. dist., and raise a mound of earth 4 ft. base, 2 ft.high, west of cor.

Land,level.

Soil, sandy and gravelly, 3rd rate.

No timber.

Undergrowth, greasewood brush, 4 to 5 ft.high,

North, bet. secs.25 and 30.

Over level land.

23.40 Road brs.N.70°W. and east.

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

$\frac{1}{4}$  S 25 in W., and

S 30 in E.half;

1914 in S.rim;

dig pits 18x18x12 ins., N.and S.of cor. 3 ft. dist., and raise a mound of earth  $3\frac{1}{2}$  ft. base,  $1\frac{1}{2}$  ft. high, west of cor.

80.00 Set an iron post, 3 ft.long, 3 ins. in diam., 24 ins. in the ground, for cor.of secs. 19,24,25 and 30, with brass cap marked,

T 8 N in N.half;

R 14 W S 24 in NW.

R 13 W. S 19 in NE;

S 30 in SE., and

S 25 in SW.quadrants;

1914 in S.rim;

dig pits 18x18x12 ins., in each sec.  $5\frac{1}{2}$  ft. dist., and raise a mound of earth 4 ft.base, 2 ft.high,W.of corner,

Land,level.

Soil, sandy and gravelly, 3rd rate.

No timber.

Undergrowth, greasewood brush 4 to 5 ft.high.

North bet. secs.19 and 24.

Over level land.

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

Chains

$\frac{1}{4}$  S 24 in W., and  
 S 19 in E.half;  
 1914 in S.rim;  
 dig pits 18x18x12 ins., N.and S.of cor., 3 ft. dist.,  
 and raise a mound of earth  $3\frac{1}{2}$  ft.base,  $1\frac{1}{2}$  ft. high,  
 west of cor.  
 80.00 Set an iron post, 3 ft.long, 3 ins. in diam., 24 ins. in  
 the ground for cor.of secs. 13,18,19 and 24, with  
 brass cap marked,  
 T 8 N in N.half;  
 R 14 W S 13 in NW.,  
 R 13 W, S 18 in NE.,  
 S 19 in SE., and  
 S 24 in SW.quadrants;  
 1914 in S.rim;  
 dig pits 18x18x12 ins., in each sec.  $5\frac{1}{2}$  ft. dist.,and  
 raise a mound of earth 4 ft.base, 2 ft.high,W.of cor.  
 Land,level.  
 Soil, sandy, 2nd rate.  
 No timber.  
 Undergrowth, greasewood brush, 4 to 5 ft. high.

North, bet. secs.13 and 18.  
 Over level land.  
 40.00 Set an iron post 3 ft.long, 1 in. in diam., 26 ins. in  
 the ground for  $\frac{1}{4}$  sec.cor., with brass cap marked,  
 $\frac{1}{4}$  S 13 in W., and  
 S 18 in E.half;  
 1914 in S.rim;  
 dig pits 18x18x12 ins., N.and S.of cor. 3 ft. dist.,  
 and raise a mound of earth  $3\frac{1}{2}$  ft. base,  $1\frac{1}{2}$  ft. high,  
 west of cor.  
 80.00 Set an iron post 3 ft.long, 3 ins. in diam., 24 ins. in  
 the ground for cor.of secs.7,12,13 and 18, with brass  
 cap marked,  
 T 8 N in N.half;  
 R 14 W, S 12 in NW.,  
 R 13 W, S 7 in NE.,  
 S 18 in SE., and  
 S 13 in SW.quadrants;  
 1914 in S.rim;  
 dig pits 18x18x12 ins., in each sec. $5\frac{1}{2}$  ft. dist.,and  
 raise a mound of earth 4 ft.base, 2 ft.high, west of  
 cor.  
 Land,level.  
 Soil, sandy, 2nd rate.  
 No timber.  
 Undergrowth, greasewood brush, 4 to 5 ft.high.

At the cor.of secs.7,12,13 and 18, I set off  $23^{\circ}21'$ N.on  
 decl.arc, and at 12h.,l.m.t., I observe the sun on  
 the meridian; the resulting lat.is  $34^{\circ}02\frac{1}{2}'$ N.  
 North, bet. secs.7 and 12.  
 Over level land.  
 40.00 Set an iron post 3 ft.long, 1 in. in diam., 26 ins. in  
 the ground for  $\frac{1}{4}$  sec.cor.,with brass cap marked,  
 $\frac{1}{4}$  S 12 in W., and  
 S 7 in E.half;  
 1914 in S.rim; from which,  
 A mesquite, 18 ins. in diam., brs.S. $10^{\circ}$ W.,79  
 lks.dist., marked  $\frac{1}{4}$  S 12 B T.  
 No other trees available. Dig pits 18x18x12 ins., N.  
 and S.of cor. 3 ft. dist.,and raise a mound of earth  
 $3\frac{1}{2}$  ft. base,  $1\frac{1}{2}$  ft. high, W.of cor.

## 80. East boundary of Township 8 North, Range 14 West.

Chains.

80.00 Set an iron post 3 ft. long, 3 ins. in diam., 24 ins. in the ground for corner of secs. 1, 6, 7 and 12, with brass cap marked,

T 8 N in N. half;  
R 14 W, S 1 in NW.,  
R 13 W, S 6 in NE.,  
S 7 in SE., and  
S 12 in SW. quadrants;  
1914 in S. rim;

dig pits 18x18x12 ins., in each sec.  $5\frac{1}{2}$  ft. dist., and raise a mound of earth 4 ft. base, 2 ft. high, W. of corner.

Land, level.

Soil, sandy, 2nd rate.

Timber, very scattering mesquite.

Undergrowth, greasewood brush, 4 to 6 ft. high.

North, bet. secs. 1 and 6.

Over level land.

31.50 Dry wash, 20 lks. wide, 3 ft. banks, course N. 80° W.

40.00 Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in the ground for  $\frac{1}{2}$  sec. cor., with brass cap, marked,

$\frac{1}{2}$  S 1 in W., and  
S 6 in E. half;  
1914 in S. rim;

dig pits 18x18x12 ins., N. and S. of cor., 3 ft. dist., and raise a mound of earth  $3\frac{1}{2}$  ft. base,  $1\frac{1}{2}$  ft. high, west of cor.

65.21 Intersect Second Standard Parallel North, at point 6.73 chains West of the original Standard cor. of Ts. 8 N., Rs. 13 and 14 W., which is an iron post, with brass cap marked and witnessed as described by the Surveyor General.

At point of intersection, I set an iron post, 3 ft. long, 3 ins. in diam., 24 ins. in the ground, for closing corner to T. 8 N., Rs. 13 and 14 W., with brass cap marked,

1914 in S. rim;  
T 8 N in S. half;  
S 36 in NW.,  
S 31 in NE.,  
R 13 W S 6 in SE., and  
R 14 W, S 1 in SW. quadrants;

dig pits 30x24x12 ins. crosswise on each line, E. and W. 4 ft., and S. of cor. 8 ft. dist. Raise a mound of earth 5 ft. base,  $2\frac{1}{2}$  ft. high, south of cor.

Land, level.

Soil, sandy, 2nd rate.

Very scattering mesquite.

Undergrowth, greasewood brush, 4 to 6 ft. high.

June 16, 1914.

W. H. T.

North boundary of Township 7 North, Range 13 West.

W. H. T.

June 18, 1914. At 10h. a.m., l.m.t., I set off 23° 24' N. on the decl. arc; 33° 59' N. on the lat. arc; and determine a meridian with the solar at the cor. of Ts. 7 and 8 N., Rs. 12 and 13 W., established by me, as hereinbefore described.

Thence I run,

West, on a random line, along the north bdy. of T. 7 N., R.

13 W., setting temp. sec. and sec. cors. at intervals of 40 chs.

240.00 Set temp. cor. of secs. 3, 4, 33 and 34. At this point,

North boundary of Township 7 North, Range 13 West. 81.

Chains.

I set off 23°25' N. on the decl. arc; and at 12h. 01m. p.m., l.m.t., I observe the sun on the meridian; the resulting lat. is 33° 59' N. Continue line and measurement.

479.91 Intersect west bdy. of Township 7 North, Range 13 West, 90 lks. S. of the cor. of Ts. 7 and 8 N., Rs. 13 and 14 W. established by me, as hereinbefore described. This falling answers to a correction of 15 lks. north per mile, or 06' of arc.

June 18, 1914.

June 19, 1914: At 8h. a.m., l.m.t., I set off 33°59' N. on the lat. arc; 23°26' N. on the decl. arc, and determine a meridian with the solar at the cor. of T. 7 and 8 N., Rs. 12 and 13 W., established by me, as hereinbefore described.

Thence I run, on north bdy. of T. 7 N., R. 13 W., on a true line as follows:

N. 89° 54' W., bet. secs. 1 and 36.

Over mountainous land.

Ascend over steep broken NE. slope.

18.00 Top of ridge, brs. NW. and SE.

Descend steep broken west slope.

34.00 Foot of descent.

Ascend over steep broken NE. slope.

40.00 Set an iron post, 3 ft. long, 1 in. in diam., in a mound of stone 3 ft. base, 2 1/2 ft. high for 1/4 sec. cor., with brass cap, marked,

1914 in S. rim;  
1/4 S 36 in N., and  
S 1 in S. half;

pits impracticable. Build a mound of stone 3 ft. base, 2 ft. high, north of cor.

45.00 Miner's cabin brs. N. 6 chs. dist.

55.20 Top of ridge, brs. NW. and SE., 700 ft. high.

Descend steep, rocky west slope.

Numerous prospect shafts and tunnels in secs. 1 and 36.

80.00 Set an iron post 3 ft. long, 3 ins. in diam., 18 ins. in the ground (could not set deeper for solid stone) build mound of stone 2 ft. base, 1 1/2 ft. high around post for cor. of secs. 1, 2, 35 and 36, with brass cap marked,

1914 in S. rim;  
T 8 N, R 13 W in N., and  
T 7 N in S. half;  
S 35 in NW.,  
S 36 in NE.,  
S 1 in SE., and  
S 2 in SW. quadrants;

pits impracticable. Raise a mound of stone 5 ft. base, 4 ft. high, west of cor.

Land, mountainous.

Soil, rocky, 4th rate.

Timber, scattering palo verde.

Undergrowth, scattering greasewood brush.

Ocotillo.

N. 89° 54' W., bet. secs. 2 and 35.

Over rolling land.

16.00 Ravine, 95 lks. wide, 8 ft. deep, course N. 10° W.

20.90 Ravine, 160 lks. wide, 6 ft. deep, course N. 20° W.

24.70 Road brs. N. 10° E. and S. 5° W.

34.80 Road brs. N. 5° W. and S. 5° E.

36.40 Road, Wenden, Alamo, brs. N. and S.

40.00 Set an iron post, 3 ft. long, 1 in. in diam., 18 ins. in the ground (could not set deeper for solid stone); build mound of stone 2 ft. base, 1 ft. high around post for 1/4 sec. cor., with brass cap marked,

82. North boundary of Township 7 North, Range 13 West.

Chains.

- 1914 in S. rim;  
 $\frac{1}{4}$  S 35 in N., and  
 S 2 in S. half;  
 dig pits 18x18x12 ins., E. and W. of cor. 3 ft. dist.,  
 and raise a mound of earth  $3\frac{1}{2}$  ft. base,  $1\frac{1}{2}$  ft. high,  
 north of cor.
- 55.00 Ravine, 60 lks. wide, 6 ft. deep, course N.20°W.  
 80.00 Set an iron post 3 ft. long, 3 ins. in diam., 24 ins. in  
 the ground for cor. of secs. 2, 3, 34 and 35, with brass  
 cap, marked,  
 1914 in S. rim;  
 T 8 N R 13 W in N., and  
 T 7 N in S. half;  
 S 34 in NW.,  
 S 35 in NE.,  
 S 2 in SE., and  
 S 3 in SW. quadrants;  
 dig pits 18x18x12 ins., in each sec.  $5\frac{1}{2}$  ft. dist.;  
 raise a mound of earth 4 ft. base, 2 ft. high, west of  
 cor.  
 Land, rolling.  
 Soil, gravelly and rocky, 4th rate.  
 Timber, scattering palo verde.  
 Undergrowth, greasewood brush, ocotillo and giant cactus.
- 
- N. 89° 54' W., bet. secs. 3 and 34.  
 Over gradual NW. slope.  
 15.80 Dry wash, 40 lks. wide, 2 ft. banks, course N. 30° W.  
 17.00 Dry wash, 25 lks. wide, 2 ft. banks, course N. 30° W.  
 40.00 Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in  
 the ground, for  $\frac{1}{4}$  sec. cor., with brass cap marked,  
 1914 in S. rim;  
 $\frac{1}{4}$  S 34 in N., and  
 S 3 in S. half;  
 dig pits 18x18x12 ins., E. and W. of cor., 3 ft. dist.,  
 and raise a mound of earth  $3\frac{1}{2}$  ft. base,  $1\frac{1}{2}$  ft. high,  
 north of cor.
- 80.00 Set an iron post 3 ft. long, 3 ins. in diam., 24 ins. in  
 the ground for cor. of secs. 3, 4, 33 and 34, with brass  
 cap, marked,  
 1914 in S. rim;  
 T 8 N, R 13 W in N., and  
 T 7 N in S. half;  
 S 33 in NW., and  
 S 34 in NE.,  
 S 3 in SE., and  
 S 4 in SW. quadrants;  
 dig pits 18x18x12 ins., in each sec.  $5\frac{1}{2}$  ft. dist.,  
 and raise a mound of earth 4 ft. base, 2 ft. high, west  
 of cor.  
 Land, level, with gradual NW. slope.  
 Soil, gravelly and rocky, 4th rate.  
 Timber, scattering palo verde.  
 Undergrowth, greasewood brush, ocotillo and giant cactus.
- 
- N. 89° 54' W., bet. secs. 4 and 33.  
 Over level land.  
 3.50 Dry wash, 70 lks. wide, 6 ft. banks, course N. 70° W.  
 26.90 Road, Wenden-Swansea, brs. N. 60° W. and S. 60° E.  
 40.00 Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in  
 the ground for  $\frac{1}{4}$  sec. cor., with brass cap marked,  
 1914 in S. rim;  
 $\frac{1}{4}$  S 33 in N., and  
 S 4 in S. half;  
 dig pits 18x18x12 ins., E. and W. of cor. 3 ft. dist.,

Chains.

- and raise a mound of earth  $3\frac{1}{2}$  ft. base,  $1\frac{1}{2}$  ft. high, north of corner.
- 55.60 Dry wash, 100 lks.wide, 3 ft. banks, course N.50°W.  
80.00 Set an iron post 3 ft.long, 3 ins. in diam., 24 ins. in the ground for cor.of secs.4,5,32 and 33, with brass cap, marked,  
1914 in S.rim;  
T 8 N R 13 W in N., and  
T 7 N in S.half;  
S 32 in NW.,  
S 33 in NE.,  
S 4 in SE., and  
S 5 in SW.quadrants;  
dig pits 18x18x12 ins., in each sec.  $5\frac{1}{2}$  ft. dist., and raise a mound of earth 4 ft.base, 2 ft.high, W.of cor.  
Land,level.  
Soil, gravelly, 4th rate.  
Timber, scattering palo verde.  
Undergrowth, greasewood brush, ocotillo and giant cactus.
- 
- N.89°54'W., bet.secs.5 and 32.  
Over level land.  
40.00 Set an iron post 3 ft.long, 1 in. in diam., 26 ins. in the ground for  $\frac{1}{4}$  sec.cor.; with brass cap, marked,  
1914 in S.rim;  
 $\frac{1}{4}$  S 32 in N.,and  
S 5 in S.half;  
dig pits 18x18x12 ins., E.and W.of cor., 3 ft. dist., and raise a mound of earth  $3\frac{1}{2}$  ft. base,  $1\frac{1}{2}$  ft. high, north of cor.  
58.70 Dry wash, 60 lks.wide, 4 ft. banks, course N.40° W.  
80.00 Set an iron post, 3 ft.long, 3 ins. in diam., 24 ins. in the ground for cor.of secs.5,6,31 and 32, with brass cap marked,  
1914 in S.rim;  
T 8 N, R 13 W in N., and  
T 7 N in S.half;  
S 31 in NW.,  
S 32 in NE.,  
S 5 in SE., and  
S 6 in SW.quadrants;  
dig pits 18x18x12 ins., in each sec. $5\frac{1}{2}$  ft. dist., and raise a mound of earth 4 ft.base, 2 ft.high,west of cor.  
Land,level.  
Soil, sandy and gravelly, 3rd rate.  
No timber.  
Undergrowth, greasewood brush, ocotillo and giant cactus.
- 
- N.89° 54' W., bet. secs.6 and 31.  
Over level land.  
2.60 Dry wash, 15 lks.wide, 2 ft. banks, course N.40°W.  
40.00 Set an iron post 3 ft.long, 1 in. in diam., 26 ins. in the ground, for  $\frac{1}{4}$  sec.cor., with brass cap marked,  
1914 in S rim;  
 $\frac{1}{4}$  S 31 in N., and  
S 6 in S.half;  
dig pits 18x18x12 ins., E.and w.of cor. 3 ft. dist., and raise a mound of earth  $3\frac{1}{2}$  ft. base, $1\frac{1}{2}$  ft.high, north of cor.  
79.91 Intersect cor.of Ts. 7 and 8 N., Rs. 13 and 14 W., established by me, as hereinbefore described.  
Land,level. Soil,sandy and gravelly,3rd rate. No timber.  
Undergrowth,greasewood,ocotillo,cactus.

84. East boundary of Township 8 North, Range 13 West.

Chains.

W.H.T.

May 19, 1914: At 8h. a.m., l.m.t., I set off 33° 59' N. on the lat.arc; 19° 41½' N. on the decl.arc; and determine a meridian with the solar at the cor. of Ts. 7 and 8 N., Rs. 12 and 13 W., established by me, as hereinbefore described.

Thence I run, on east bdy. of T. 8 N., R. 13 W., on true line, as follows:

North, bet. secs. 31 and 36.

Over mountainous land.

Descend steep NE. slope.

7.93 Change to steep broken north slope.

22.19 Ravine, 40 lks. wide, 12 ft. deep, course N. 45° W.

Foot of descent.

40.00 Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in the ground for ¼ sec. cor., with brass cap marked,

¼ S 36 in W., and

S 31 in E. half;

1914 in S. rim;

pits impracticable. Raise a mound of stone 4 ft. base, 2 ft. high, west of cor.

May 19, 1914.

May 20, 1914:

At 9h. a.m., l.m.t., at this ¼ sec. cor., I set off 19° 54½' N. on decl.arc; 33° 59½' N. on the lat.arc, and determine a meridian with the solar.

41.00 Ravine, 60 lks. wide, 10 ft. deep, course N. 45° W.

50.20 Ravine, 60 lks. wide, 8 ft. deep, course N. 80° W.

59.95 Ascend steep rocky SW. slope.

73.06 Top of ridge, 370 ft. high, brs. N. 40° W. and S. 70° E.

Descend steep rocky N. slope.

80.00 Set an iron post 3 ft. long, 3 ins. in diam., in a mound of stone 5 ft. base, 3 ft. high for cor. of secs. 25, 30, 31 and 36, with brass cap marked,

T 8 N in N. half;

R 13 W S 25 in NW.,

R 12 W, S 30 in NE.,

S 31 in SE., and

S 36 in SW. quadrants;

1914 in S. rim;

Not sufficient stone to build another mound. Pits impracticable.

Land, mountainous.

Soil, rocky, 4th rate.

Timber, scattering scrub palo verde.

Undergrowth, scattering greasewood brush.

Ocotillo and club cactus.

North, bet. secs. 25 and 30.

Enter rolling land.

7.97 Dry wash, 20 lks. wide, 2 ft. banks, course N. 40° W.

11.50 Ravine, 40 lks. wide, 10 ft. banks, course N. 40° W.

29.40 Ravine, 40 lks. wide, 12 ft. deep, course west.

37.90 Ravine, 100 lks. wide, 8 ft. deep, course N. 80° W.

40.00 Set an iron post, 3 ft. long, 1 in. in diam., 18 ins. in the ground (could not set deeper for solid stone);

build mound of stone 3 ft. base, 1 ft. high around post for ¼ sec. cor., with brass cap, marked,

¼ S 25 in W., and

S 30 in E. half;

1914 in S. rim;

pits impracticable. Build a mound of stone 3 ft. base, 2 ft. high, west of cor.

At this cor., I set off 19° 56' N. on decl.arc; and at 11h. 56m. a.m., l.m.t., I observe the sun on the meridian; the resulting lat. is 34° 00' N.

Ascend gradual SW. slope.

59.10 Dry wash, 50 lks. wide, 2 ft. banks, course S. 80° W.

East boundary of Township 8 North Range 13 West 85

Chains.

72.00 Change to gradual NW. slope.  
 80.00 Set an iron post, 3 ft. long, 3 ins. in diam., 12 ins. in the ground (could not set deeper for solid stone); build a mound of stone 3 ft. base, 1 1/2 ft. high around post for the cor. of secs. 19, 24, 25 and 30, with brass cap marked,  
     T 8 N in N. half;  
     R 13 W, S 24 in NW.,  
     R 12 W, S 19 in NE.,  
     S 30 in SE., and  
     S 25 in SW. quadrants;  
     1914 in S. rim;  
 pits impracticable. Raise a mound of stone 4 ft. base, 3 ft. high, west of cor.  
 Land, mountainous to 30 chs.; thence rolling.  
 Soil, rocky, 4th rate.  
 Timber, scrub palo verde.  
 Undergrowth, greasewood brush.  
 Ocotillo and club cactus. Giant cactus.  
 May 20, 1914.

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 June 24, 1914:  
 At the cor. of secs. 19, 24, 25 and 30, I set off 23°26' N. on decl. arc; and at 12h. 2m. p.m., l.m.t., I observe the sun on the meridian; the resulting lat. is 34°01' N.

Thence I run,  
 North, bet. secs. 19 and 24.  
 Over gradual NW. slope.  
 35.00 Ravine, 80 lks. wide, 6 ft. deep, course N. 70° W.  
 40.00 Set an iron post 3 ft. long, 1 in. in diam., 18 ins. in the ground (could not set deeper for solid rock); build mound of stone 2 ft. base, 1 ft. high around post for 1/4 sec. cor., with brass cap, marked,  
     1/4 S 24 in W., and  
     S 19 in E. half;  
     1914 in S. rim;  
 pits impracticable. Build a mound of stone 3 ft. base, 2 1/2 ft. high, west of cor.  
 45.15 Ravine, 100 lks. wide, 6 ft. deep, course N. 70° W.  
 62.90 Ravine, 40 lks. wide, 4 ft. deep, course N. 70° W.  
 79.40 Old road, brs. N. 45° E. and S. 45° W.  
 80.00 Set an iron post 3 ft. long, 3 ins. in diam., 24 ins. in the ground for cor. of secs. 13, 18, 19 and 24, with brass cap, marked,  
     T 8 N in N. half;  
     R 13 W, S 13 in NW.,  
     R 12 W, S 18 in NE.,  
     S 19 in SE., and  
     S 24 in SW. quadrants;  
     1914 in S. rim;  
 dig pits 18x18x12 ins., in each sec. 5 1/2 ft. dist., and raise a mound of earth 4 ft. base, 2 ft. high, west of cor.  
 Land, rolling.  
 Soil, gravelly and rocky, 3rd and 4th rate.  
 Timber, palo verde.  
 Undergrowth, greasewood brush, ocotillo and giant cactus.

-----  
 North, bet. secs. 13 and 18.  
 Over gradual NW. slope.  
 5.70 Ravine, 70 lks. wide, 6 ft. deep, course N. 80° W.  
 30.40 Dry wash, 80 lks. wide, 4 ft. banks, course N. 80° W.  
 40.00 Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in

## 86. East boundary of Township 8 North. Range 13 West.

## Chains.

- the ground for  $\frac{1}{4}$  sec.cor., with brass cap marked,  
 $\frac{1}{4}$  S 13 in W., and  
 S 18 in E.half;  
 1914 in S.rim;  
 dig pits 18x18x12 ins., N.and S.of cor., 3 ft. dist.,  
 and raise a mound of earth  $3\frac{1}{2}$  ft. base,  $1\frac{1}{2}$  ft. high, W.  
 of cor.
- 49.80 Dry wash, 20 lks.wide, 2 ft.banks, course N.80°W.  
 71.70 Dry wash, 40 lks.wide, 2 ft.banks, course N.80°W.  
 80.00 Set an iron post, 3 ft.long, 3 ins. in diam., 24 ins. in  
 the ground for cor.of secs.7,12,13 and 18, with brass  
 cap,marked,  
 T 8 N in N.half;  
 R 13 W, S 12 in NW.,  
 R 12 W, S 7 in NE.,  
 S 18 in SE., and  
 S 13 in SW.quadrants;  
 1914 in S.rim;  
 dig pits 18x18x12 ins., in each sec.5 $\frac{1}{2}$  ft. dist.,and  
 raise a mound of earth 4 ft.base, 2 ft.high, W.of cor.  
 Land, gradual NW. slope.  
 Soil, gravelly and rocky, 4th rate.  
 Timber, scattering palo verde and catclaw.  
 Undergrowth, greasewood brush; ocotillo and giant cactus.
- 
- North, bet. secs.7 and 12.  
 Over level land.
- 20.50 Dry wash, 20 lks.wide, 2 ft.banks, course N.80°W.  
 40.00 Set an iron post 3 ft.long, 1 in. in diam., 26 ins. in  
 the ground for  $\frac{1}{4}$  sec.cor., with brass cap marked,  
 $\frac{1}{4}$  S 12 in W., and  
 S 7 in E.half;  
 1914 in S.rim;  
 dig pits 18x18x12 ins., N.and S.of cor., 3 ft. dist.,  
 and raise a mound of earth  $3\frac{1}{2}$  ft. base,  $1\frac{1}{2}$  ft. high,  
 west of cor.
- 50.10 Old road, brs.N.40°E. and S.40°W.  
 80.00 Set an iron post, 3 ft.long, 3 ins. in diam., 24 ins. in  
 the ground for cor.of secs. 1,6,7 and 12, with brass  
 cap, marked.  
 T 8 N in N.half;  
 R 13 W S 1 in NW.  
 R 12 W, S 6 in NE.,  
 S 7 in SE., and  
 S 12 in SW. quadrants;  
 1914 in S.rim;  
 dig pits 18x18x12 ins. in each sec. 5 $\frac{1}{2}$  ft. dist.,and  
 raise a mound of earth 4 ft.base, 2 ft.high, west of  
 cor.  
 Land,level.  
 Soil, sandy and gravelly, 3rd rate.  
 Timber, scattering palo verde, mesquite and catclaw.  
 Undergrowth, greasewood brush, ocotillo and giant  
 cactus.
- 
- North, bet. secs. 1 and 6.  
 Over level land.
- 23.30 Road brs.N.20°E. and S.20°W.  
 31.20 Dry wash, 20 lks.wide, 2 ft.banks, course N.70°W.  
 40.00 Set an iron post, 3 ft.long, 1 in. in diam., 26 ins. in  
 the ground for  $\frac{1}{4}$  sec.cor., with brass cap marked,  
 $\frac{1}{4}$  S 1 in W., and  
 S 6 in E.half;  
 1914 in S.rim;

East boundary of Township 8 North, Range 13 West. 87.

Chains.

66.37

dig pits 18x18x12 ins., N. and S. of cor., 3 ft. dist., and raise a mound of earth  $3\frac{1}{2}$  ft. base,  $1\frac{1}{2}$  ft. high, west of cor.

Intersect Second Standard Parallel North, at a point, 8.43 chs. west of the original Standard cor. of Ts. 9 N., Rs. 12 and 13 W., which is a 3-inch iron post 1 ft. above ground, marked and witnessed as described by the Surveyor General. At point of intersection, I set an iron post 3 ft. long, 3 ins. in diam., 24 ins. in the ground for closing cor. of Ts. 8 N., Rs. 12 and 13 W., with brass cap marked,

1914 in S rim;  
 T 9 N in N., and  
 T 8 N in S. half;  
 R 13 W. S 36 in NW.,  
 R 12 W; S 31 in NE.,  
 S 6 in SE., and  
 S 1 in SW. quadrants;  
 C C N. of center;

dig pits 30x24x12 ins. crosswise on each line E. and W. 4 ft., and S. of cor. 8 ft. dist.; raise a mound of earth 5 ft. base,  $2\frac{1}{2}$  ft. high, south of cor.

Land, level.

Soil, sandy, 3rd rate.

Timber, scattering palo verde and ironwood.

Undergrowth, mesquite and greasewood brush.

Ocotillo.

June 24, 1914.

W. H. T.

88. Part of East boundary of Township 6 North, Range 11 West.

Chains.

W.K.K.

July 9, 1914: At 10 h.a.m., l.m.t., I set off 22°25' N. on decl. arc; and 33°54' N. on lat. arc; and determine a meridian with the solar at the cor. of Ts. 6 and 7 N., Rs. 10 and 11 W., which I established as hereinbefore described.

Thence I run, on east bdy. of T. 6 N., R. 11 W., on true line as follows:

South, bet. secs. 1 and 6.

Over level land.

21.10 Telegraph line, brs. N. 66°03' E. and S. 66°03' W.

21.75 Arizona and California Railroad brs. N. 66°03' E. and S. 66°03' W.

24.85 Road parallel to railroad.

40.00 Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in the ground for 1/4 sec. cor., with brass cap marked,

1/4 S 1 in W., and

S 6 in E. half;

1914 in S. rim;

dig pits 18x18x12 ins., N. and S. of cor., 3 ft. dist., and raise a mound of earth 3 1/2 ft. base, 1 1/2 ft. high, west of cor.

80.00 Having no 3-inch diam. post, I set an iron post 3 ft. long, 2 ins. in diam., 24 ins. in the ground for cor. of secs. 1, 6, 7 and 12, with brass cap, marked,

T 6 N in N. half;

R 11 W, S 1 in NW.,

R 10 W S 6 in NE.,

S 7 in SE., and

S 12 in SW. quadrants;

1914 in S. rim;

dig pits 18x18x12 ins., in each sec. 5 1/2 ft. dist., and raise a mound of earth 4 ft. base, 2 ft. high, west of the cor.

Land, level.

Soil, adobe and sand, 2nd rate.

Timber, mesquite.

Undergrowth, greasewood brush,

Native grass.

South, bet. secs. 7 and 12.

Over level land.

31.00 Road brs. NW. and SE.

40.00 Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in the ground for 1/4 sec. cor., with brass cap, marked,

1/4 S 12 in W., and

S 7 in E. half;

1914 in S. rim;

dig pits 18x18x12 ins., N. and S. of cor., 3 ft. dist., and raise a mound of earth 3 1/2 ft. base, 1 1/2 ft. high, west of cor.

77.50 Road brs. N. 70° W. and S. 70° E.

80.00 Set an iron post 3 ft. long, 3 ins. in diam., 24 ins. in the ground for cor. of secs. 7, 12, 13, and 18, with brass cap, marked,

T 6 N in N. half;

R 11 W, S 12 in NW.,

R 10 W S 7 in NE.,

S 18 in SE., and

S 13 in SW. quadrants;

1914 in S. rim;

dig pits 18x18x12 ins. in each sec. 5 1/2 ft. dist., and raise a mound of earth 4 ft. base, 2 ft. high, west of cor.

Land, level.

Soil, adobe and sandy, 2nd rate.

Undergrowth, greasewood brush; native grass.

Timber, mesquite.

July 9, 1914. W.K.K.

Chains.

W.K.K.

July 11, 1914: At 8h. a.m., l.m.t., I set off 22°11½'N. on the decl.arc; 33°59'N. on the lat.arc; and determine a meridian with the solar at the cor.of Ts.7 and 8 N., Rs.6 and 7 W., established by me, as hereinbefore described.

Thence I run, on east bdy.of T.7 N., R.7 W., on true line, as follows:

South, bet. secs.1 and 6.  
Over level land.

40.00 Set an iron post 3 ft.long, 1 in. in diam., 26 ins. in the ground for ¼ sec.cor., with brass cap marked,

¼ S 1 in W., and  
S 6 in E.half;

1914 in S.rim;

dig pits 18x18x12 ins., N.and S.of cor., 3 ft. dist., and raise a mound of earth 3½ ft. base, 1½ ft. high, west of cor.

80.00 Set an iron post, 3 ft.long, 3 ins. in diam., 24 ins. in the ground for cor.of secs.1,6,7 and 12, with brass cap marked,

T 7 N in N.half;  
R 7 W, S 1 in NW.  
R 6 W S 6 in NE.,  
S 7 in SE., and  
S 12 in SW.quadrants;

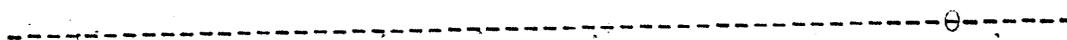
1914 in S.rim;

dig pits 18x18x12 ins., in each sec. 5½ ft. dist., and raise a mound of earth 4 ft.base, 2 ft. high, west of cor.

Land,level.

Soil, adobe, 2nd rate.

Undergrowth, greasewood brush; catsclaw, soto and native grass.



South, bet. secs.7 and 12.

Over level land.

40:00 Set an iron post, 3 ft.long, 1 in. in diam., 26 ins. in the ground for ¼ sec.cor., with brass cap marked,

¼ S 12 in W., and  
S 7 in E.half;

1914 in S.rim;

dig pits 18x18x12 ins., N.and S.of cor. 3 ft. dist., and raise a mound of earth 3½ ft. base, 1½ ft. high, west of cor.

80.00 Set an iron pest, 3 ft.long,3 ins. in diam. 24 ins. in the ground for cor.of secs.7,12,13 and 18, with brass cap, marked,

1914 in S.rim;  
T 7 N in N.half;  
R 7 W, S 12 in NW.,  
R 6 W, S 7 in NE.,  
S 18 in SE., and  
S 13 in SW.quadrants;

dig pits 18x18x12 ins., in each sec. 5½ ft. dist., and raise a mound of earth 4 ft.base, 2 ft.high W. of cor.

Land,level.

Soil, adobe, 2nd rate.

No timber.

Undergrowth, greasewood and catclaw brush.

Soto and native grass.



South, bet. secs.13 and 18.

Over level land.

## 90. East boundary of Township 7 North, Range 7 West.

Chains.

.90 Road brs. NW. and SE.  
 40.00 Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in the ground for  $\frac{1}{4}$  sec. cor., with brass cap marked,  
 $\frac{1}{4}$  S 13 in W., and  
 S 18 in E. half;  
 1914 in S. rim;  
 dig pits 18x18x12 ins., N. and S. of cor. 3 ft. dist., and raise a mound of earth  $3\frac{1}{2}$  ft. base,  $1\frac{1}{2}$  ft. high, W. of cor.  
 Enter rolling land.  
 80.00 Set an iron post 3 ft. long, 3 ins. in diam., 24 ins. in the ground for cor. of secs. 13, 18, 19 and 24, with brass cap, marked,  
 T 7 N in N. half;  
 R 7 W S 13 in NW.,  
 R 6 W, S 18 in NE.,  
 S 19 in SE., and  
 S 24 in SW. quadrants;  
 1914 in S. rim;  
 dig pits 18x18x12 ins., in each sec.  $5\frac{1}{2}$  ft. dist., and raise a mound of earth 4 ft. base, 2 ft. high, west of cor.  
 Land, level.  
 Soil, adobe, 2nd. rate.  
 No timber.  
 Undergrowth, greasewood brush. Soto and native grass.  
 At this cor., I set off  $22^{\circ}10'N$ . on decl. arc; and at 12h. 5m. p.m. l.m.t., observe the sun on the meridian; the resulting lat. is  $33^{\circ}56\frac{1}{2}'N$ .

-----  
 South, bet. secs. 19 and 24.  
 Over level land.  
 40.00 Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in the ground for  $\frac{1}{4}$  sec. cor., with brass cap marked,  
 $\frac{1}{4}$  S 24 in W., and  
 S 19 in E. half;  
 1914 in S. rim;  
 dig pits 18x18x12 ins. N. and S. of cor. 3 ft. dist., and raise a mound of earth  $3\frac{1}{2}$  ft. base,  $1\frac{1}{2}$  ft. high, west of cor.  
 52.00 Road brs. NE. and SW.  
 80.00 Set an iron post 3 ft. long, 3 ins. in diam., 24 ins. in the ground, for cor. of secs. 19, 24, 25 and 30, with brass cap marked,  
 T 7 N in N. half;  
 R 7 W, S 24 in NW.,  
 R 6 W, S 19 in NE.,  
 S 30 in SE., and  
 S 25 in SW. quadrants;  
 1914 in S. rim;  
 dig pits 18x18x12 ins., in each sec.  $5\frac{1}{2}$  ft. dist., and raise a mound of earth 4 ft. base, 2 ft. high, W. of cor.  
 Land, level.  
 Soil, adobe, 2nd rate.  
 No timber.  
 Undergrowth, greasewood brush.  
 Native grass.

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 South, bet. secs. 25 and 30.  
 Over slightly rolling land.  
 .40 Road, brs. E. and W.  
 40.00 Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in the ground for  $\frac{1}{4}$  sec. cor., with brass cap marked,  
 $\frac{1}{4}$  S 25 in W., and

East boundary of Township 7 North, Range 7 West. 91.

Chains.

80.00 S 30 in E.half;  
 1914 in S.rim;  
 dig pits 18x18x12 ins., N.and S.of cor., 3 ft. dist.,  
 and raise a mound of earth  $3\frac{1}{2}$  ft. base,  $1\frac{1}{2}$  ft. high,  
 west of cor.  
 Set an iron post, 3 ft.long, 3 ins. in diam., 24 ins. in  
 the ground for cor.of secs.25,30,31 and 36, with  
 brass cap, marked,  
 T 7 N in N.half;  
 R 7 W S 25 in NW.,  
 R 6 W, S 30 in NE.,  
 S 31 in SE., and  
 S 36 in SW.quadrants;  
 1914 in S.rim;  
 dig pits 18x18x12 ins., in each sec.  $5\frac{1}{2}$  ft. dist.,and  
 raise a mound of earth 4 ft.base, 2 ft.high, west of  
 cor.  
 Land, slightly rolling.  
 Soil, adobe, 2nd rate.  
 Undergrowth, greasewood brush. Native grass.  
 No timber.

40.00 South, bet. secs.31 and 36.  
 Over rolling land.  
 Set an iron post, 3 ft.long, 1 in. in diam., 26 ins. in  
 the ground for  $\frac{1}{4}$  sec.cor., with brass cap marked,  
 $\frac{1}{4}$  S 36 in W., and  
 S 31 in E.half;  
 1914 in S.rim;  
 dig pits 18x18x12 ins., N.and S.of cor. 3 ft. dist.,  
 and raise a mound of earth  $3\frac{1}{2}$  ft. base,  $1\frac{1}{2}$  ft. high,  
 west of cor.  
 44.50 Dry wash, 30 lks.wide, 2 ft.banks, course NW.  
 80.00 Set an iron post 3 ft.long, 3 ins. in diam., 24 ins. in  
 the ground for cor.of Ts. 6 and 7 N., Rs.6 and 7 W.,  
 with brass cap, marked,  
 1914 in S.rim;  
 T 7 N in N., and  
 T 6 N in S.half;  
 R 7 W, S 36 in NW.,  
 R 6 W, S 31 in NE.,  
 S 6 in SE.,and  
 S 1 in SW.quadrants;  
 dig pits 24x24x12 ins. on each line, N.,E. and W.4  
 ft., and S.of cor. 8 ft. dist., and raise a mound of  
 earth 5 ft.base,  $2\frac{1}{2}$  ft.high,S.of cor.  
 Land,rolling.  
 Soil, gravelly, 3rd and 4th rate.  
 Timber, catclaw.  
 Undergrowth, greasewood brush.  
 Native grass.

July 11, 1914.  
W. K.K.

South boundary of Townsh 7 North, Range 7 West:

W.K.K.  
 July 13,1914:  
 At 9h. a.m., l.m.t., I set off  $33^{\circ}54'$ N. on the lat.arc;  
 $21^{\circ}54\frac{1}{2}'$ N. on the decl.arc; and determine a meridian  
 with the solar at the cor.of Ts. 6 and 7 N.,Rs.6 and  
 7 W., established by me, as hereinbefore described.  
 Thence I run,  
 West, on a random line along the south boundary of T.7  
 N., R.7 W., setting temp. $\frac{1}{4}$  sec.& sec.cors. at intervals

## 92. South boundary of Township 7 North, Range 7 West.

Chains.

of 40.00 chs.  
 240.00 Set temp. cor. of secs. 3, 4, 33 and 34. At this point, I set off  $21^{\circ}53'N.$  on decl. arc; and at 12h.  $5\frac{1}{2}$ m.p.m., l.m.t., I observe the sun on the meridian; the resulting lat. is  $33^{\circ}54'N.$  Continue line and measurement  
 489.75 Intersect west bdy. of T. 7 N., R. 7 W., 42 lks. N. of the original cor. of Ts. 6 and 7 N., Rs. 7 and 8 W., which is an iron post, marked and witnessed as described by the Surveyor General.  
 This falling answers to a correction of 7 lks N. per mile, or 03' of arc.

July 13, 1914.

July 14, 1914: At 8h. a.m., l.m.t., I set off  $33^{\circ}54'N.$  on the lat. arc;  $21^{\circ}46\frac{1}{2}'N.$  on the decl. arc; and determine a meridian with the solar at the original cor. of Ts. 6 and 7 N., Rs. 7 and 8 W., an iron post with brass cap, marked and witnessed as described by the Surveyor General.

Thence I run, on south bdy. of T. 7 N., R. 7 W., on a true line, as follows:

N.  $89^{\circ}57'E.$ , bet. secs. 6 and 31.

Over slightly rolling land.

49.65 Dry wash, 20 lks. wide, 1 ft. banks, course N.  $85^{\circ}W.$

49.75 True point for  $\frac{1}{4}$  sec. cor. falls in above wash; impracticable to establish  $\frac{1}{4}$  sec. cor. at this point; therefore at

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

1914 in S. rim;

W. C.  $\frac{1}{4}$  S 31 in N., and

S 6 in S. half;

dig pits 18x18x12 ins., E. and W. of cor. 3 ft. dist., and raise a mound of earth  $3\frac{1}{2}$  ft. base,  $1\frac{1}{2}$  ft. high, north of cor.

89.75 Set an iron post 3 ft. long, 3 ins. in diam., 24 ins. in the ground for cor. of secs. 5, 6, 31 and 32, with brass cap, marked,

1914 in S. rim;

T 7 N, R 7 W in N., and

T 6 N in S. half;

S 31 in NW.,

S 32 in NE.,

S 5 in SE., and

S 6 in SW. quadrants;

pits impracticable. Build a mound of stone 3 ft. base, 3 ft. high, west of cor.

Land, slightly rolling.

Soil, gravelly and adobe, 2nd and 3rd rate.

Timber, palo verde.

Undergrowth, greasewood brush. Native grass.

N.  $89^{\circ}57'E.$ , bet. secs. 5 and 32.

Over rolling land.

7.25 Dry wash, 75 lks. wide, 3 ft. banks, course S.  $70^{\circ}W.$

31.25 Dry wash, 75 lks. wide. 3 ft. banks, course N.  $30^{\circ}W.$

35.45 Dry wash 75 lks. wide, 3 ft. banks, course S.  $60^{\circ}W.$

40.00 Set an iron post, 3 ft. long, 1 in. in diam., 12 ins. in the ground (could not set deeper for solid stone) build mound of stone 2 ft. base,  $1\frac{1}{2}$  ft. high around post for  $\frac{1}{4}$  sec. cor., with brass cap, marked,

1914 in S. rim;

$\frac{1}{4}$  S 32 in N., and

S 5 in S. half;

South boundary of Township 7 North Range 7 West 93

Chains.

dig pits 18x18x12 ins., E. and W. of cor., 3 ft. dist., and raise a mound of earth  $3\frac{1}{2}$  ft. base,  $1\frac{1}{2}$  ft. high, north of cor.

55.25 Ravine, 75 lks. wide, 5 ft. deep, course NW.  
 71.50 South foot of small hill, 200 ft. high.  
 78.00 Foot of ascent on west slope.  
 80.00 Set an iron post 3 ft. long, 3 ins. in diam., 24 ins. in the ground for cor. of secs. 4, 5, 32 and 33, with brass cap, marked,  
     1914 in S. rim;  
     T 7 N, R 7 W in N., and  
     T 6 N in S. half;  
     S 32 in NW.,  
     S 33 in NE.,  
     S 4 in SE., and  
     S 5 in SW. quadrants;  
 pits impracticable; raise a mound of stone 3 ft. base, 3 ft. high, west of cor.  
 Land, rolling.  
 Soil, rocky, 4th rate.  
 Timber, palo verde.  
 Undergrowth, greasewood brush. Native grass.

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N. 89° 57' E., bet. secs. 4 and 33.  
 Over mountainous land.  
 Ascend west slope.  
 3.50 Top of ascent.  
 Descend east slope.  
 10.00 Foot of descent.  
 Enter rolling land.  
 40.00 Set an iron post 3 ft. long, 1 in. in diam., 6 ins. in the ground, (could not set deeper for solid stone); build mound of stone 3 ft. base, 2 ft. high around post, for  $\frac{1}{4}$  sec. cor., with brass cap marked.  
     1914 in S. rim;  
      $\frac{1}{4}$  S 33 in N., and  
     S 4 in S. half;  
 dig pits 18x18x12 ins., E. and W. of cor. 3 ft. dist., and raise a mound of earth  $3\frac{1}{2}$  ft. base,  $1\frac{1}{2}$  ft. high, north of cor.  
 50.00 Ascend west slope.  
 53.50 Top of ascent.  
 56.00 Descend east slope.  
 61.00 Foot of descent.  
 63.00 Dry wash, 20 lks. wide, 1 ft. banks, course north.  
 Ascend west slope.  
 74.00 Top of ascent.  
 76.00 Top of spur in saddle divide.  
 Descend east slope.  
 79.80 Foot of descent.  
 Ascend west slope.  
 80.00 Set an iron post, 3 ft. long, 3 ins. in diam., 24 ins. in the ground for cor. of secs. 3, 4, 33 and 34, with brass cap, marked,  
     1914 in S. rim;  
     T 7 N R 7 W in N., and  
     T 6 N in S. half;  
     S 33 in NW.,  
     S 34 in NE.,  
     S 3 in SE., and  
     S 4 in SW. quadrants;  
 pits impracticable. Raise a mound of stone 4 ft. base, 3 ft. high, W. of cor.  
 Land, mountainous.  
 Soil, rocky, 4th rate.  
 Timber, palo verde.  
 Undergrowth, greasewood brush.

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94. South boundary of Township 7 North, Range 7 West.

Chains.

- N.89°57'E., bet. secs.3 and 34.  
Over mountainous land.  
Ascend west slope.
- 3.50 Top of ascent. Spur ends 3 chs.north.  
Descend east slope.
- 12.00 Foot of descent in draw, course north.  
Ascend NW. slope, 310 ft.
- 26.25 Top of round hill.  
Descend 225 ft. over east slope.
- 40.00 Set an iron post 3 ft.long, 1 in. in diam., in a mound of stone 3 ft.base, 2½ ft.high, for ¼ sec.cor., with brass cap, marked,  
¼ S 34 in N., and  
S 3 in S.half;  
1914 in S.rim;  
build mound of stone 3 ft.base, 3 ft.high, north of corner.
- 45.00 Foot of descent.  
Thence over rolling land.
- 60.00 Dry wash, 100 lks.wide, 1 ft. banks, course N.10°W.
- 79.00 Road brs.N.5°W. and S.5°E.
- 80.00 Set an iron post, 3 ft.long 3 ins. in diam., 24 ins. in the ground for cor.of secs.2,3,34 and 35, with brass cap, marked,  
1914 in S.rim;  
T 7 N R 7 W in N.,and  
T 6 N in S.half;  
S 34 in NW.,  
S 35 in NE.,  
S 2 in SE., and  
S 3 in SW.quadrants;  
dig pits 18x18x12 ins., in each sec. 5½ ft. dist.,and raise a mound of earth 4 ft.base, 2 ft.high, west of cor.
- Land, mountainous and rolling.  
Soil, rocky, 4th rate.  
Timber, palo verde.  
Undergrowth, greasewood brush.
- 
- N.89°57'E., bet. secs 2 and 35.  
Over rolling land.
- 23.00 Ascend NW. slope.
- 34.00 Top of ascent.  
Thence over rolling land.
- 40.00 Set an iron post 3 ft.long, 1 in. in diam., 12 ins. in the ground (could not set deeper for solid stone); build a mound of stone 3 ft.base, 1½ ft.high, around post for ¼ sec.cor., with brass cap marked,  
¼ S 35 in N., and  
S 2 in S.half;  
1914 in S.rim;  
pits impracticable. Build a mound of stone 3 ft. base, 3 ft. high, N.of cor.
- 42.50 Top of small ridge.  
Rolling land.
- 55.50 Dry wash, 100 lks.wide, 1 ft.banks, course north.
- 65.50 Ravine, 100 lks.wide, 12 ft.deep, course N:85°W.
- 77.00 Ascend over west slope.
- 80.00 Set an iron post 3 ft.long, 3 ins. in diam., in a mound of stone 4 ft.base, 2½ ft. high for cor.of secs. 1, 2, 35 and 36, with brass cap marked,  
1914 in S.rim;  
T 7 N R 7 W in N., and  
T 6 N in S.half;  
S 35 in NW.,  
S 36 in NE.,  
S 1 in SE., and  
S 2 in SW.quadrants;

Chains.

pits impracticable. Build a mound of stone 4 ft. base,  
 4 ft. high, west of cor.  
 Land, rolling, with few small ridges.  
 Soil, rocky, 4th rate.  
 Timber, scrub palo verde.  
 Undergrowth, greasewood brush,

N. 89° 57' E., bet. secs. 1 and 36.  
 Over mountainous land.  
 Ascend 130 ft. over west slope.  
 9.50 Top of ascent. Hill extends 5 chains N. and S.  
 10.00 Descend 170 ft. over east slope.  
 23.00 Foot of descent.  
 Thence over rolling land.  
 34.80 Dry wash, 20 lks. wide, 1 ft. banks, course north.  
 40.00 Set an iron post 3 ft. long, 1 in. in diam., in a mound  
 of stone 3 ft. base, 2½ ft. high for ¼ sec. cor., with  
 brass cap, marked,  
     1914 in S. rim;  
     ¼ S 36 in N., and  
     S 1 in S. half;  
 pits impracticable. Build a mound of stone 3 ft. base,  
 3 ft. high, north of cor.  
 44.00 Ascend west slope.  
 46.00 Top of small round hill.  
 Descend east slope.  
 50.00 Foot of descent. Thence rolling land.  
 68.80 Dry wash, 20 lks. wide, 1 ft. banks, course north.  
 80.00 Cor. of Ts. 6 and 7 N., Rs. 6 and 7 W., established by me,  
 as hereinbefore described.  
 Land, rolling and mountainous.  
 Soil, rocky, 4th rate.  
 Timber, scrub palo verde.  
 Undergrowth, greasewood brush.

July 14, 1914.

*W. J. Scull*  
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 U. S. Transitman.  
*W. H. Brown*  
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 U. S. Surveyor.

LATITUDES, DEPARTURES AND CLOSING ERRORS.

Boundaries of Subdivided portion of T. 6 N., T.10 W.						
Line Designated.	True course.	Dist.	Latitudes.		Departures.	
			N.	S.	E.	W.
Subdivisional bdy.	N.89°57'W.	80.00	.07			80.00
	S.89°59'W.	160.00		.04		160.00
	S.89°59'W.	77.40		.02		77.40
West bdy.	North,	80.00	80.00			
North bdy.,	N.89°59'E.	317.27	.08		317.27	
Subdivisional bdy.	S.0°01'E.	80.00		80.00	.02	
Convergency,					.06	
Totals,			80.15	80.06	317.35	317.40
			80.06			317.35
Error in latitude,			.09			
Error in departure,					.05	

Boundaries of Subdivided portion of T. 6 N., R. 11 W.						
Subdivisional bdy.	S.89°58'W.	80.12		.05		80.12
	S.0°01'E.	80.00		80.00	.02	
	S.89°58'W.	160.01		.10		160.01
	S.0°02'E.	80.00		80.00	.05	
	S.89°59'W.	79.90		.02		79.90
	West,	79.89				79.89
	S.0°03'E.	80.00		80.00	.07	
-----	S.89°50'W.	78.24		.23		78.24
West bdy.	North,	400.00	400.00			
North bdy.	N.89°59'E.	477.27	.12		477.27	
East bdy.	South,	160.00		160.00		
Convergency,					.28	
Totals,			400.12	400.40	477.69	478.16
				400.12		477.69
Error in latitude,				.28		
Error indep.,					.47	

Boundaries of Township 6 North, Range 13 West.							
South bdy.,	West,	80.20				80.20	
	S.89°56'W.	40.12		.05		40.12	
	S.89°59'W.	40.16		.01		40.16	
	N.89°54'W.	40.10	.07			40.10	
	N.89°48'W.	40.89	.14			40.89	
	N.89°56'W.	39.58	.05			39.58	
	N.89°57'W.	40.14	.04			40.14	
	S.89°59'W.	40.09		.01		40.09	
	West,	40.09				40.09	
	N.89°59'W.	40.10	.01			40.10	
	S.89°47'W.	39.62		.15		39.62	
	West bdy.,	North,	480.00	480.00			
	North bdy.,	S.89°55'E.	480.48		.70	480.48	
East bdy.,	S. 0°03'E.	79.85		79.85	.07		
	South,	39.99		39.99			
	S.0°02'E.	119.95		119.95	.07		
	S.0°03'E.	39.96		39.96	.04		
	S.0°03'W.	40.01		40.01		.03	
	S.0°08'W.	40.16		40.16		.09	
	S.0°09'W.	40.01		40.01		.10	
	South,	80.07		80.07			
Convergency,				.49			
Totals,			480.31	480.92	481.15	481.31	
				480.31		481.15	
Error in latitude,			.61				
Error in departure,					.16		

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34

08. LATITUDES, DEPARTURES, AND CLOSING ERRORS.

Boundaries of Township 6 North, Range 14 West.						
Line designated.	True course.	Dist.	Latitudes.		Departures.	
			N.	.S.	E.	W.
South bdy. (Did not retrace this line)	S.89° 45'W.	478.20		2.10		478.20
West bdy.	North,	485.84	485.84			
North bdy.	East,	476.28			476.28	
East bdy.,	South,	480.00		480.00		
Convergency,					.49	
	Totals,		485.84	482.10	476.77	478.20
			482.10			476.77
	Error in latitude,		3.74			
	Error in departure,					1.43
Boundaries of Township 7 North, Range 7 West.						
South bdy.	S.89°57'W.	489.75		.42		489.75
West bdy.,	North,	480.00	480.00			
North bdy.,	East,	489.43			489.43	
East bdy.,	South,	480.00		480.00		
Convergency,					.49	
	Totals,		480.00	480.42	489.92	489.75
				480.00	489.75	
	Error in latitude,			.42		
	Error in departure,					.17
Boundaries of Township 7 North, Range 10 West.						
South bdy.,	S.89°59'W.	477.27		.12		477.27
West bdy.,	North,	480.00	480.00			
North bdy.,	N.89°57'E.	476.76	.42		476.76	
East bdy.,	South,	480.00		480.00		
Convergency,					.49	
	Totals,		480.42	480.12	477.25	477.27
			480.12			477.25
	Error in latitude,		.30			
	Error in departure,					.02
Boundaries of Township 7 North, Range 11 West.						
South bdy.	S.89°59'W.	477.27		.14		477.27
West bdy.,	North,	480.00	480.00			
North bdy.,	N.89° 59'E.	476.75	.14		476.75	
East bdy.,	South,	480.00		480.00		
Convergency,					.49	
	Totals,		480.14	480.14	477.24	477.27
			480.14			477.24
	Error in latitude,		.00			
	Error in departure,					.03
Boundaries of Subdivided portion of T. 7 N., R.13 W.						
Subdivision-	S.0° 2'E.	80.00		80.00	.05	
al Bay.	N.89°54'W.	79.98	.14			79.98
	S.0°03'E.	80.00		80.00	.07	
	N.89°54'W.	80.08	.14			80.08
West bdy.,	North,	160.00	160.00			
North bdy.,	S.89°54'E.	159.91		.28	159.91	
Convergency,					.04	
	Totals,		160.28	160.28	160.07	160.06
			160.28		160.06	
	Error in latitude,		0.00			
	Error in departute,					.01

Boundaries of Subdivided portion of T. 7 N., R. 12 W.

Line designated.	True course.	Dist.	Latitudes.		Departures.	
			N.	S.	E.	W.
South bdy.	N. 89° 59' W.	479.00	.14			479.00
West bdy.,	North,	240.00	240.00			
Subdivisional bdy.	East,	78.65			78.65	
	S. 89° 55' E.	79.91		.11	79.91	
	S. 0° 02' E.	80.00		80.00	.05	
	N. 89° 58' E.	80.06	.05		80.06	
	N. 0° 02' W.	80.00	80.00			.05
	N. 89° 45' E.	80.27	.35		80.27	
	N. 0° 01' W.	80.00	80.00			.02
	N. 89° 57' E.	79.88	.07		79.88	
East bdy.	South,	320.00		320.00		
Convergency,					.27	
Totals,			400.68	400.11	479.23	479.07
			400.11		479.07	
Error in latitude,			.57			
Error in departure,					.16	

Boundaries of Township 7 North, Range 14 West.

South bdy.,	West,	476.28				476.28
West bdy.,	North,	480.00	480.00			
North bdy.,	S. 89° 59' E.	475.61		.13	475.61	
East bdy.,	South,	480.00		480.00		
Convergency,					.49	
Totals,			480.00	480.13	476.10	476.28
				480.00		476.10
Error in latitude,				.13		
Error in departure,					.18	

Boundaries of Township 8 North, Range 6 West.

South bdy.	West,	489.43				489.43
West bdy.,	North,	465.76	465.76			
North bdy.	East,	488.82			488.82	
East bdy.,	S. 0° 1' W.	466.24		466.24		.14
Convergency,					.49	
Totals,			465.76	466.24	489.31	489.57
				465.76		489.31
Error in latitude,				.48		
Error in departure,					.26	

Boundaries of Township 8 North, Range 7 West.

South bdy.	West,	489.43				489.43
West bdy.,	North,	465.42	465.42			
North bdy.,	East,	487.82			487.82	
East bdy.,	South,	465.76		465.76		
Convergency,					.49	
Totals,			465.42	465.76	488.31	489.43
				465.42		488.31
Error in latitude,				.34		
Error in departure,					1.12	

100. LATITUDES DEPARTURES AND CLOSING ERRORS.

Boundaries of Township 8 North, Range 8 West.						
Line designat- ed.	True course.	Dist.	Latitudes.		Departures.	
			N.	S.	E.	W.
South bdy.,	S. 89° 56' W.	80.01		.10		80.01
	S. 89° 50' W.	80.01		.23		80.01
	S. 89° 59' W.	80.00		.02		80.00
	S. 89° 54' W.	39.72		.07		39.72
	N. 89° 58' W.	40.04	.02			40.04
	S. 89° 59' W.	80.00		.02		80.00
	S. 89° 59' W.	78.13		.02		78.13
West bdy.,	North,	465.65	465.65			
North bdy., (2nd. Std. Par. N.)	East,	476.83			476.83	
East bdy.,	South,	465.42		465.42		
Convergency,					.49	
	Totals,		465.67	465.88	477.32	477.91
				465.67		477.32
	Error in latitude,			.21		
	Error in departure,					.59
Boundaries of Township 8 North, Range 9 West.						
South bdy.,	N. 89° 55' W.	40.06	.06			40.06
	N. 89° 52' W.	40.11	.09			40.11
	N. 89° 58' W.	40.13	.02			40.13
	N. 89° 52' W.	40.13	.09			40.13
	N. 89° 56' W.	40.12	.05			40.12
	N. 89° 47' W.	40.06	.15			40.06
	S. 89° 58' W.	40.07		.03		40.07
	N. 89° 53' W.	40.10	.08			40.10
	S. 89° 57' W.	40.00		.03		40.00
	West,	40.08				40.08
	N. 89° 56' W.	78.70	.10			78.70
West bdy.,	North,	465.26	465.26			
North bdy., (2nd. Std. Par. N.)	East,	478.42			478.42	
East bdy.,	South,	465.65		465.65		
Convergency,					.49	
	Totals,		465.90	465.71	478.91	479.56
			465.71			478.91
	Error in latitude,		.19			
	Error in departure,					.65
Boundaries of Subdivided portion of T. 8 N., R. 10 West						
South bdy.	S. 89° 57' W.	476.76		.48		476.76
West bdy.	North,	240.00	240.00			
Subdivisional bdy.	N. 89° 55' E.	76.79	.12		76.79	
	N. 89° 51' E.	80.09	.21		80.09	
	N. 89° 52' E.	79.91	.18		79.91	
	N. 0° 02' W.	80.00	.80.00			.05
	N. 89° 52' E.	80.20	.18		80.20	
	N. 0° 01' W.	80.00	.80.00			.02
	N. 89° 57' E.	80.02	.07		80.02	
N. 0° 01' W.	65.39	.65.39			.02	
North bdy. (2nd. Std. Par. N.)	East,	79.86			79.86	
East bdy.,	South,	465.26		465.26		
Convergency,					.49	
	Totals,		466.15	465.74	477.36	476.85
			465.74		476.85	
	Error in latitude,		.41			
	Error in departure,				.51	

LATITUDES DEPARTURES AND CLOSING ERRORS 101

Boundaries of Subdivided portion of T. 8 N., R.12 W.

Line designated.	True course.	Dist.	Latitudes.		Departures.		
			N.	S.	E.	W.	
Subdivisional bdy.	S. 0°02'E.	146.63		146.63	.08		
	West,	80.00				80.00	
	S. 0°03'E.	80.00		80.00	.07		
West bdy.,	West,	78.16				78.16	
North bdy., (2nd. Std. Par. N.)	North,	226.37	226.37				
	East,	157.90			157.90		
Convergency,					.07		
Totals,			226.37	226.63	158.12	158.16	
				226.37		158.12	
<u>Error in latitude,</u>				.26			
<u>Error in departure,</u>						.04	

Boundaries of Township 8 North, Range 13 West.

South bdy.,	N. 89°54' W.	479.91	.84			479.91	
West bdy.,	North,	465.21	465.21				
North bdy. (2nd. Std. Par. N.)	East,	478.30			478.30		
	South,	466.37		466.37			
Convergency,					.49		
Totals,			466.05	466.37	478.79	479.91	
				466.05		478.79	
<u>Error in latitude,</u>				.32			
<u>Error in departure,</u>						1.12	

Boundaries of Township 8 North, Range 14 West.

South bdy.	N. 89°59' W.	475.61	.10			475.61	
West bdy.	North,	465.20	465.20				
North bdy., (2nd. Std. Par. N.)	East,	474.97			474.97		
	South,	465.21		465.21			
Convergency,					.49		
Totals,			465.30	465.21	475.46	475.61	
				465.21		475.46	
<u>Error in latitude,</u>				.09			
<u>Error in departure,</u>						.15	



FINAL OATH OF UNITED STATES TRANSITMAN.

I, W. K. Kierulff, <sup>Transitman</sup> U. S. ~~Surveyor~~, do solemnly swear that, in pursuance of special instructions received from the U. S. Surveyor General for Arizona, for Group 34 dated Feb. 11, 1914 and June 20, 1914, 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 E. & S. bdr's, T. 7 N. R. 7 W., S. & W. bdr's, T. 7 N. R. 11 W. S. & W. bdr's, T. 7 N. R. 14 W., S. bdy. T. 8 N. R. 6 W., S. bdy., T. 8 N. R. 7 W., W. bdy. T. 8 N. R. 14 W., W. bdy., T. 6 N. R. 13 W., W. bdy. T. 6 N. R. 14 W., and the E. bdy., T. 6 N. R. 11 W. of the Gila & Salt River Base & Meridian, in the State of Arizona, which are represented in the foregoing field notes as having been executed by me, and under my direction; and I do further solemnly swear that all the corners of said survey have been established and perpetuated in strict accordance with the Manual of Surveying Instructions, and the special written instructions of the U. S. Surveyor General for Arizona, for Group 34 and in the specific manner described in the field notes, and that the foregoing are the original field notes of such survey.

*W. K. Kierulff*  
 U. S. Transitman

Subscribed by said W. K. Kierulff, and sworn to before me }  
 this 11 day of Apr, 1914

*Charles Post*



County Clerk and Ex-Officio Clerk of the Superior Court  
 in and for San Bernardino County, State of California

*J. Ellberg*

APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

....., 191

The foregoing field notes of the survey of .....

executed by .....  
 under his special instructions dated ....., 191 , having been critically examined, and the necessary corrections and explanations made, the said field notes, and the surveys they describe, are hereby approved.

U. S. Surveyor General.

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.

U. S. Surveyor General.



FINAL OATH OF UNITED STATES SURVEYOR.

I, W. H. Thorn, U. S. Surveyor, do solemnly swear that, in pursuance of special instructions received from the U. S. Surveyor General for Arizona for Group 34 bearing date of the 11th day of February, 1914, 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 N. bdy. T. 6 N. R. 13 W., N. bdy. T. 7 N. R. 10 W., N. & E. bdy., T. 7 N. R. 11 W., N. E. & W. bdy. T. 7 N. R. 13 W., N. bdy. T. 7 N. R. 14 W. W., bdy., T. 8 N. R. 6 W., W. bdy. T. 8 N. R. 7 W., E. & W., bdy. T. 8 N. R. 9 W., E. bdy. T. 8 N. R. 11 W., E. bdy., T. 8 N. R. 13 W., E. bdy. T. 8 N. R. 14 W. of the Gila & Salt River Base & Meridian, in the State of Arizona, which are represented in the foregoing field notes as having been executed by me, and under my direction; and I do further solemnly swear that all the corners of said survey have been established and perpetuated in strict accordance with the Manual of Surveying Instructions, and the special written instructions of the U. S. Surveyor General for Arizona for Group 34 and in the specific manner described in the field notes, and that the foregoing are the original field notes of such survey.

W. H. Thorn

U. S. Surveyor.

Subscribed by said W. H. Thorn, and sworn to before me this 11 day of Sept, 1914

Charles Post



County Clerk and Ex-Officio Clerk of the Superior Court for San Bernardino County, Arizona

APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL, Phoenix, Ariz. DEC 30, 1915.

The foregoing field notes of the survey of the S. and W. bdrs. of T. 8 N., R. 7 W.; S. & W. bdrs. T. 8 N., R. 6 W.; E. & W. bdrs. of T. 8 N., R. 9 W.; N., S., E. & W. bdrs. of T. 7 N., R. 11 W.; N. & S. bdrs. of T. 7 N., R. 10 W.; part of E. bdy. of T. 8 N., R. 11 W.; E. and N. bdrs. of T. 7 N., R. 13 W.; N. & W. bdrs. of T. 6 N., R. 13 W.; E., W., N., & S. bdrs. of T. 7 N., R. 14 W.; W. bdy. of T. 6 N., R. 14 W.; E. & W. bdrs. of T. 8 N., R. 14 W.; E. bdy. of T. 8 N., R. 13 W.; part of E. bdy. of T. 6 N., R. 11 W.; E. & S. bdrs. of T. 7 N., R. 7 W., of the Gila and Salt River Base and Meridian, in the State of Arizona,

executed by W. H. Thorn, U. S. Surveyor, and W. K. Kierulff, U. S. Transitman, under their special instructions dated Feb. 11, and June 20, 1914, for Group 34, 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 Book 2835, has been correctly copied from the original notes on file in this office.