

BOOK " B "

BOOK 2792

Exteriors

FIELD NOTES

OF THE SURVEY OF THE

South and West boundaries of Tp. 1 S., R. 6 W.

South " West " " Tp. 1 S., R. 7 W.

West, East " North " " Tp. 2 N., R. 6 W.

South " West " " Tp. 1 S., R. 9 W.

South " West " " Tp. 1 S., R. 10 W.

West boundary " Tp. 2 N., R. 9 W.

East and West boundaries of Tp. 4 N., R. 11 W.

East " North " " Tp. 4 S., R. 11 W.

North boundary " Tp. 4 S., R. 12 W.

and the North & East boundaries of Tp. 4 S., R. 9 W.

AND RESURVEY of Part of East bdy. of Tp. 4 S., R. 9 W.

Of the Gila and Salt River Base and Meridian,

In the State of ARIZONA

EXECUTED BY

JOHN F. HESSE

In the capacity of U. S. Surveyor, under instructions dated October 21, 1913, and February 10, 1914 issued by the United States Surveyor General to govern surveys included in

Group No. 32, which were approved by the Commissioner of the General Land Office, November 21, 1913 and February 20, 1914, pursuant to authority contained in the Act of

Congress dated June 23, 1913.

Survey commenced February 7, 1914

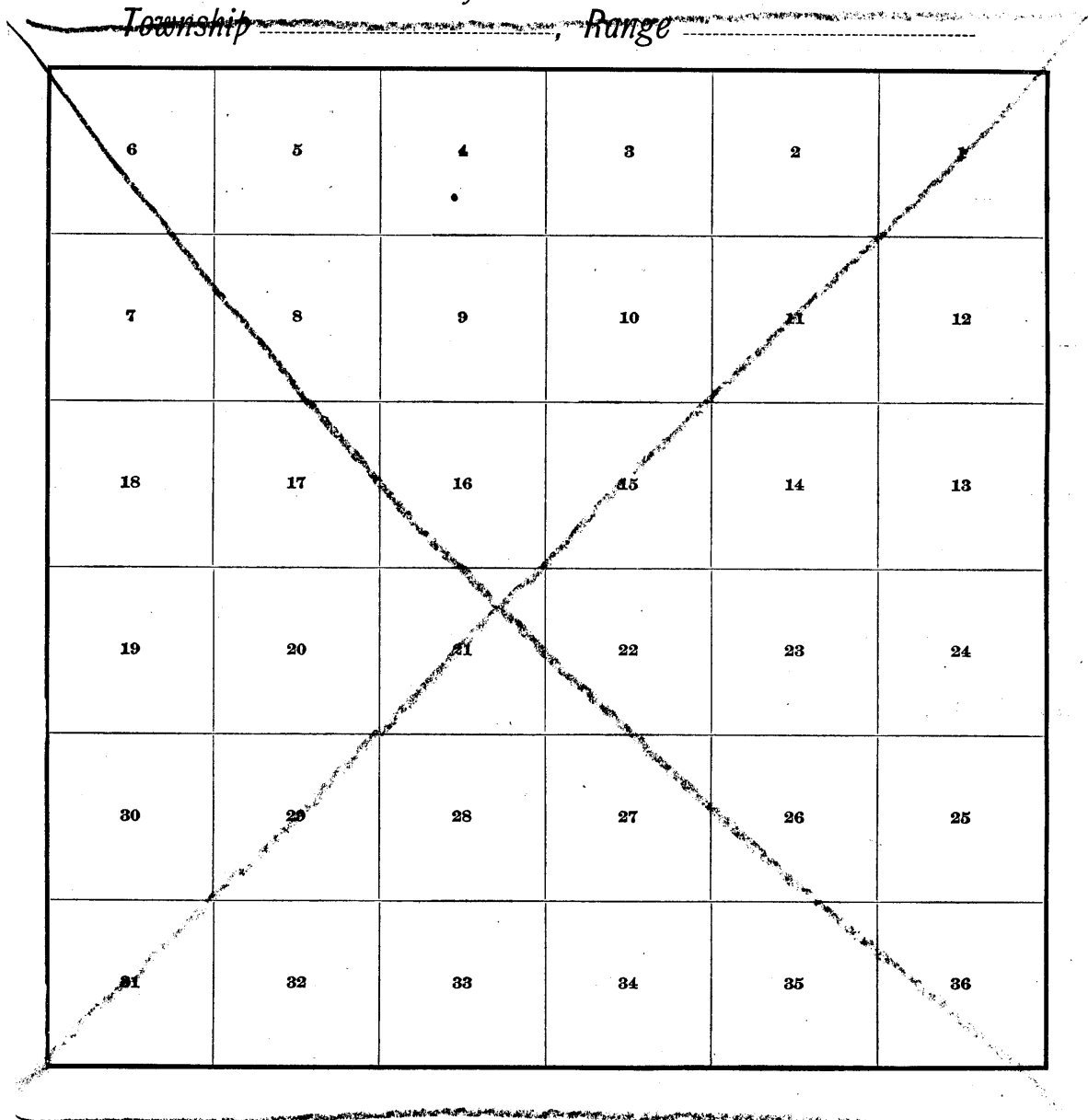
Survey completed June 26, 1914

2622

2792

INDEX DIAGRAM.

See Special Index



Book "B"

BOOK 2792

(1A)

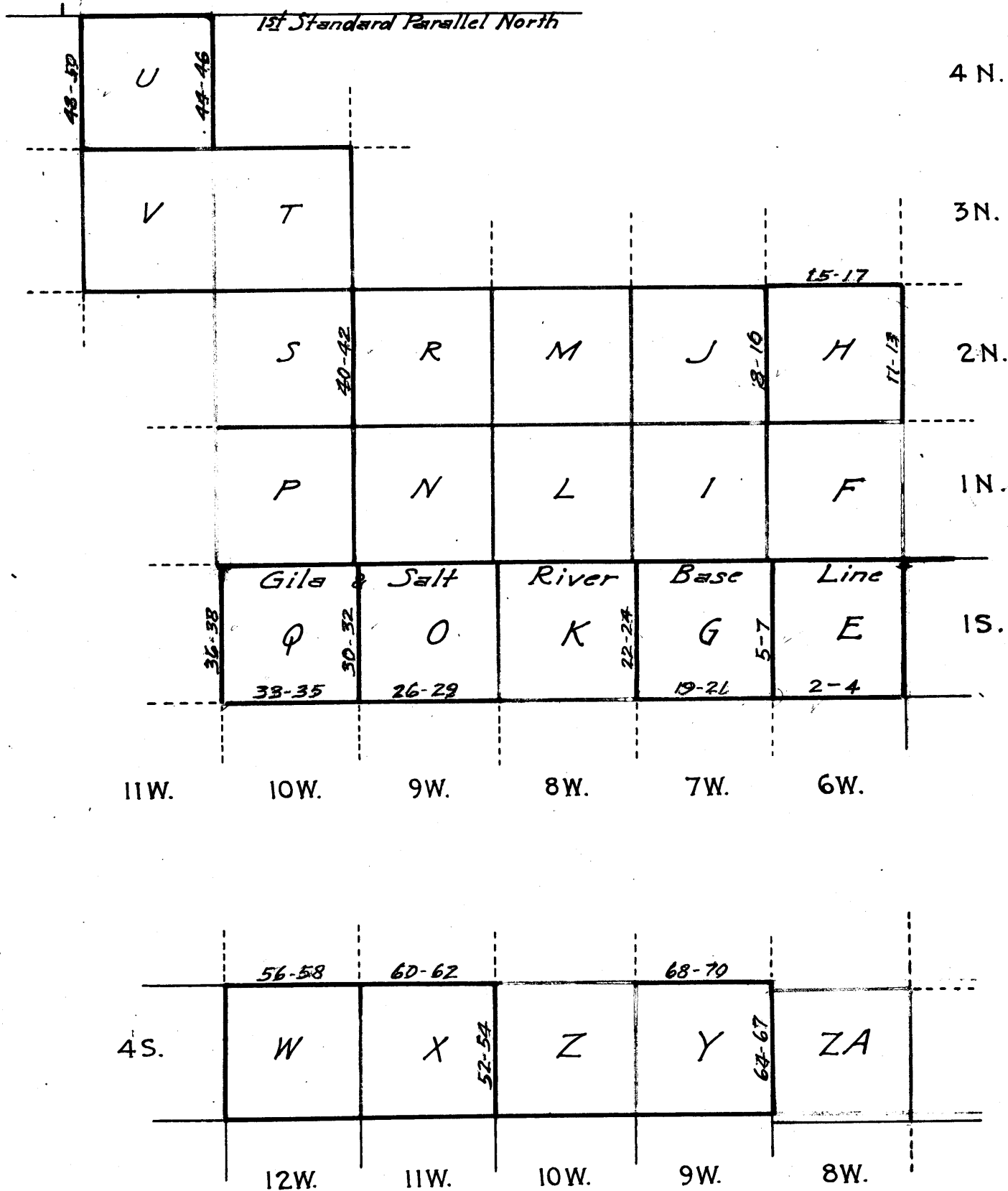
INDEX DIAGRAM

Group 32

- Notes in this Book
- ==== Book "A"
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Index for 1898

Red letters indicate Subdivisional Books.



BOOK 2792

South boundary of Township 1 South, Range 6 West
Chains.

Surveys of Exterior Boundaries by John F. Hesse, U.S. Surveyor, under Instructions for Group 32, Arizona, commenced February 7, 1914, and executed with a Young and Sons' light mountain transit No. 8588. For description of this instrument, field tests and establishment of meridian see Book "A."

From the cor. of Ts. 1 and 2 S., Rs. 5 and 6 W., reestablished by Jesse B. Wright, U.S. Surveyor, as described in Book "D." Lat. $33^{\circ} 17' 20''$ N.; long. $112^{\circ} 49' 31''$ W., I

run,
West bet. secs. 1 and 36, on a true line.

Over level land, through dense brush.

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

$\frac{1}{4}$ S 36 in N., and
S 1 1914 in S. half;

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

45.00 Cross wash 100 lks. wide, course SE.

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, marked on brass cap,

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

S 2 in SW. quadrant; 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, W. of cor.

Land, level.

Soil, sandy loam, dry, medium texture, 1st rate.

No timber.

Undergrowth, mesquite and greasewood.

Feb. 7, 1914.

Feb. 9, 1914. At 8h. 00m. a.m., l.m.t., I set off $33^{\circ} 17\frac{1}{2}'$ N. on the lat. arc; $14^{\circ} 45\frac{1}{2}'$ S. on the decl. arc; and determine a meridian with the solar at the cor. of secs. 1, 2, 35 and 36. Thence I run,

West, bet. secs. 2 and 35.

Over level land, through dense brush.

18.40 Cross wash 40 lks. wide, course NE.

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

$\frac{1}{4}$ S 35 in N., and S 2 1914 in S. half;

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

41.20 Cross wash, 30 lks. wide, course S.

43.70 Cross wash, 40 lks. wide, course SE.

58.00 Cross wash, 25 lks. wide, course NE.

61.00 Cross wash, 40 lks. wide, course NE.

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, marked on brass cap,

T 1 S in N., T 2 S 1914 in S., and
R 6 W in W. half;
S 34 in NW.,
S 35 in NE.,
S 2 in SE., and
S 3 in SW. quadrant;

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, W. of cor.

Land, level

Soil, sandy loam, dry, medium texture, 1st rate.

No timber.

Undergrowth, mesquite, greasewood and palo verde.

40.00 West bet. secs. 3 and 34. Over level land, through dense brush.

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

South boundary of Tp. 1 S. Rg. 6 W.

Chains.	
43.50 80.00	<p>ground for $\frac{1}{4}$ sec. cor., marked on brass cap $\frac{1}{4}$S34 in N. and S3 1914 in S. half; dig pits 18 x 18 x 12 ins. E. and W. of post 3 ft. dist., and raise a mound of earth $3\frac{1}{2}$ ft. base $1\frac{1}{2}$ ft. high, N. of cor.</p> <p>Cross road bears N. W. and S. E.</p> <p>Set an iron post 3 ft. long, 3 ins. diam., 24 ins. in the ground for cor. of secs. 3, 4, 33 and 34, marked on brass cap</p> <p>T1S in N. T2S 1914 in S. and R6W in W. half; S33 in N. W. S34 in N. E. S5 in S. E. and S4 in S. W. quadrant; dig pits 18 x 18 x 12 ins. in each sec. $5\frac{1}{2}$ ft. dist., and raise a mound of earth 4 ft. base 2 ft. high, W. of cor..</p> <p>Land, level. Soil, sandy loam, dry, coarse texture, 1st. rate. No timber. Undergrowth, greasewood and mesquite.</p>
40.00	<p>West bet. secs. 4 and 33. Over level land, through dense brush.</p> <p>Set an iron post 3 ft. long, 1 in. diam., 26 ins. in the ground for $\frac{1}{4}$ sec. cor., marked on brass cap $\frac{1}{4}$S33 in N. and S4 1914 in S. half; dig pits 18 x 18 x 12 ins. E. and W. of post 3 ft. dist, and raise a mound of earth $3\frac{1}{2}$ ft. base $1\frac{1}{2}$ ft. high, N. of cor.</p>
61.70 80.00	<p>Cross road bears N. E. and S. W.</p> <p>Set an iron post 3 ft. long, 3 ins. diam., 24 ins. in the ground for cor. of secs. 4, 5, 32 and 33, marked on brass cap</p> <p>T1S in N. T2S 1914 in S. and R6W in W. half; S32 in N. W. S33 in N. E. S4 in S. E. and S5 in S. W. quadrant; dig pits 18 x 18 x 12 ins. in each sec. $5\frac{1}{2}$ ft. dist., and raise a mound of earth 4 ft. base 2 ft. high, W. of cor.</p> <p>Land, level. Soil, sandy loam, covered about $\frac{1}{2}$ in. deep with rocks and gravel, dry, medium texture, 1st. rate. No timber. Undergrowth, greasewood and mesquite.</p>
Note:	<p>February 9: At this cor. I set off 14 $43\frac{1}{2}$' S. on the decl. arc; and observe the sun on the meridian at noon; the resulting lat. is 33 $17\frac{1}{2}$' N.</p>
30.40 32.40 40.00	<p>West bet. secs. 5 and 32. Over level land, through dense brush.</p> <p>Cross wash 50 lks. wide course N. E. Cross wash 60 lks. wide course N. E.</p> <p>Set an iron post 3 ft. long, 1 in. diam., 26 ins. in the ground for $\frac{1}{4}$ sec. cor., marked on brass cap $\frac{1}{4}$S32 in N. and S5 1914 in S. half; dig pits 18 x 18 x 12 ins. E. and W. of post 3 ft. dist., and raise a mound of earth $3\frac{1}{2}$ ft. base $1\frac{1}{2}$ ft. high, N. of cor.</p>
80.00	<p>Set an iron post 3 ft. long, 3 ins. diam., 24 ins. in the ground for cor. of secs. 5, 6, 31 and 32, marked on brass cap</p> <p>T1S in N. T2S 1914 in S. and R6W in W. half; dig pits 18 x 18 x 12 ins. in each sec. $5\frac{1}{2}$ ft. dist., and raise a mound of earth 4 ft. base 2 ft. high, W. of cor..</p> <p>S31 in N. W.</p>

South boundary of Tp. 1 S. Rg. 6 W.

Chains.

S32 in N. E.

S5 in S. E. and

S6 in S. W. quadrant; dig pits 18 x 18 x 12 ins. in each sec. $5\frac{1}{2}$ ft. dist., and raise a mound of earth 4 ft. base 2 ft. high, W. of cor..

Land, level.

Soil, sandy loam covered $\frac{1}{2}$ in. deep with small rocks and gravel, dry, medium texture, 1st. rate.

No timber.

Undergrowth, greasewood.

West bet. secs. 6 and 31.

Over level land, through dense brush.

40.00 Set an iron post 3 ft. long, 1 in. diam., 26 ins. in the ground for $\frac{1}{4}$ sec. cor., marked on brass cap $\frac{1}{4}$ S31 in N. and S6 1914 in S. half; dig pits 18 x 18 x 12 ins. E. and W. of post 3 ft. dist, and raise a mound of earth $3\frac{1}{2}$ ft. base $1\frac{1}{2}$ ft. high, N. of cor.

42.60 Cross wash 50 lks. wide course N. E.

78.16 Set an iron post 3 ft. long, 3 ins. diam., 24 ins. in the ground for cor. of Tps. 1 and 2 S. Rgs. 6 and 7 W., marked on brass cap

T1S in N.

R6W in E.

T2S 1914 in S. and

R7W in W. half;

S36 in N. W.

S31 in N. E.

S6 in S. E. and

S1 in S. W. quadrant; dig pits 24 x 24 x 12 ins., on each line, N., 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, S. of cor.

Land, level.

Soil, sandy loam covered $\frac{1}{2}$ in. deep with small rocks and gravel, dry, medium texture, 1st. rate.

No timber.

Undergrowth, greasewood.

February 9, 1914.

West boundary of Tp. 1 S. Rg. 6 W.

Chains.	1914:
	February 11; At 8h. 00m. a.m., l.m.t., I set off $33^{\circ} 17\frac{1}{2}'$ N. on the lat. arc; $14^{\circ} 07'$ S. on the decl. arc; and determine a meridian with the solar at the cor. of Tps. 1 and 2 S. Rgs. 6 and 7 W hereinbefore described.
	Thence I run
	North bet. secs. 31 and 36 on a true line.
	Over level land, through dense brush.
26.20	Cross wash 6 lks. wide course N. E.
40.00	Set an iron post 3 ft. long, 1 in. diam., 26 ins. in the ground for $\frac{1}{4}$ sec. cor., marked on brass cap $\frac{1}{4}$ S36 in W. S31 in E. and 1914 in S. half; dig pits 18 x 18 x 12 ins. N. and S. of post 3 ft. dist., and raise a mound of earth $3\frac{1}{2}$ ft. base $1\frac{1}{2}$ ft. high, W. of cor.
66.40	Cross road bears E. and W.
80.00	Set an iron post 3 ft. long, 3 ins. diam., 24 ins. in the ground for cor. of secs. 25, 30, 31 and 36, marked on brass cap
	T1S in N. and
	1914 in S. half;
	S25 R7W in N. W.
	S30 R6W in N. E.
	S31 in S. E. and
	S36 in S. W. quadrant; dig pits 18 x 18 x 12 ins. in each sec. $5\frac{1}{2}$ ft. dist, and raise a mound of earth 4 ft. base 2 ft. high, W. of cor.
	Land, level.
	Soil, sandy loam covered $\frac{1}{2}$ in. deep with gravel, dry, medium texture; 1st. rate.
	No timber.
	Undergrowth, greasewood and cactus.
	<hr/>
	North bet. secs. 25 and 30.
	Over level land, through dense brush.
40.00	Set an iron post 3 ft. long, 1 in. diam., 26 ins. in the ground for $\frac{1}{4}$ sec. cor., marked on brass cap $\frac{1}{4}$ S25 in W. S30 in E. and 1914 in S. half; dig pits 18 x 18 x 12 ins. N. and S. of post 3 ft. dist., and raise a mound of earth $3\frac{1}{2}$ ft. base $1\frac{1}{2}$ ft. high, W. of cor.
80.00	Set an iron post 3 ft. long, 3 ins. diam., 24 ins. in the ground for cor. of secs. 19, 24, 25 and 30, marked on brass cap
	T1S in N. and
	1914 in S. half;
	R7W S24 in N. W.
	R6W S19 in N. E.
	S30 in S. E. and
	S25 in S. W. quadrant; from which
	A mesquite 6 ins. diam., bears N. $61\frac{1}{4}$ W. 143 lks. dist., marked T1SR7WS24BT.
	A mesquite 8 ins. diam., bears N. 33 E. 54 lks. dist., marked T1SR6WS19BT
	A mesquite 6 ins. diam., bears S. $5\frac{1}{4}$ E. 79 lks. dist., marked T1SR6WS30BT.
	A mesquite 6 ins. diam., bears S. 64 W. 150 lks. dist., marked T1SR7WS25BT.
	Land, level.
	Soil, sandy loam, dry, medium texture; 1st. rate.
	No timber.
	Undergrowth, greasewood and mesquite.
	<hr/>
	North bet. secs. 19 and 24.
	Over level land, through dense brush.
16.70	Cross wash 25 lks. wide course E.
18.00	Cross road bears E. and W.
34.20	Cross road bears N. E. and S. W.
40.00	Set an iron post 3 ft. long, 1 in. diam., 26 ins. in the ground for $\frac{1}{4}$ sec. cor., marked on brass cap $\frac{1}{4}$ S24 in W.

West boundary of Tp. 1 S. Rg. 6 W.

Chains.

40.67 S19 in E. and 1914 in S. half; dig pits 18 x 18 x 12 ins. N. and S. of post 3 ft. dist., and raise a mound of earth 3½ ft. base 1½ ft. high, W. of cor.

62.50 Cross road bears E. and W.

78.25 Cross road bears N. E. and S. W.

80.00 Cross road bears E. and W.

80.00 Set an iron post 3 ft. long, 3 ins. diam., 24 ins. in the ground for cor. of secs. 13, 18, 19 and 24, marked on brass cap.

T1S in N. and
1914 in S. half;
R7W S13 in N. W.
R6W S18 in N. E.
S19 in S. E. and
S24 in S. W. quadrant; dig pits 18 x 18 x 12 ins. in each sec. 5½ ft. dist., and raise a mound of earth 4 ft. base 2 ft. high, W. of cor.

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

Note: February 11: At this cor. I set off 14 05' S. on the decl. arc; and observe the sun on the meridian at noon; the resulting lat. is 33 20' N.

40.00 North bet. secs. 13 and 18.
Over level land, through dense brush.
Set an iron post 3 ft. long, 1 in. diam., 26 ins. in the ground for ¼ sec. cor., marked on brass cap ¼S13 in W.
S18 in E. and 1914 in S. half; dig pits 18 x 18 x 12 ins. N. and S. of post 3 ft. dist., and raise a mound of earth 3½ ft. base 1½ ft. high, W. of cor.

80.00 Set an iron post 3 ft. long, 3 ins. diam., 24 ins. in the ground for cor. of secs. 7, 12, 13 and 18, marked on brass cap

T1S in N. and
1914 in S. half;
R7W S12 in N. W.
R6W S7 in N. E.
S18 in S. E. and
S13 in S. W. quadrant; dig pits 18 x 18 x 12 ins. in each sec. 5½ ft. dist., and raise a mound of earth 4 ft. base 2 ft. high, W. of cor.

Land, level.
Soil, sandy loam, dry, medium texture; 1st. rate.
No timber.
Undergrowth, greasewood and mesquite.

40.00 North bet. secs. 7 and 12.
Over level land, through dense brush.
Set an iron post 3 ft. long, 1 in. diam., 26 ins. in the ground for ¼ sec. cor., marked on brass cap ¼S12 in W.
S7 in E. and 1914 in S. half; dig pits 18 x 18 x 12 ins. N. and S. of post 3 ft. dist., and raise a mound of earth 3½ ft. base 1½ ft. high, W. of cor.

80.00 Set an iron post 3 ft. long, 3 ins. diam., 24 ins. in the ground for cor. of secs. 1, 6, 7, and 12, marked on brass cap

T1S in N. and
1914 in S. half;
R7W S1 in N. W.
R6W S6 in N. E.
S7 in S. E. and
S12 in S. W. quadrant; dig pits 18 x 18 x 12 ins. in each sec. 5½ ft. dist., and raise a mound of earth 4 ft. base 2 ft. high, W. of cor.

Land, level.

West Boundary of Township 1 South, Range 6 West. 7.

Chains.
 Soil, sandy loam, dry, medium texture, 1st rate.
 No timber.
 Undergrowth, greasewood and cacti.

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

48.00 Cross wash, 100 lks. wide, course SE.
 50.00 Ascend rough, rocky SW. slope; leave brush.
 80.90 Intersect Gila and Salt River Base Line 2.91 chs. E. of the standard cor. of Ts. 1 N., Rs. 6 and 7 W., established by Jesse B. Wright, as described in Book "C". 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. 1 S., Rs. 6 and 7 W., marked on brass cap,
 C C S of center,
 T 1 N R 7 W S 36 R 6 W S 31 in N., and
 T 1 S, 1914 in S. half;
 S 6, R 6 W in SE., and
 S 1, R 7 W in SW. quadrant;
 and raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high, S. of cor. Pits impracticable.
 Land, level and mountainous.
 Soil S. 48.00 chs., sandy loam, dry, medium texture, 1st rate. N. 32.90 chs., loose volcanic rocks, worthless.
 No timber.
 Undergrowth, greasewood, mesquite and palo verde.
 February 11, 1914.

Boundaries of Township 1 South, Range 6 West.
 Latitudes, departures, and closing errors.

Line designation	True bearing	Dist.	Latitudes.		Departures.	
			N.	S.	E.	W.
North bdy. (G&SR/Base Line)	West,	477.09				477.09
West bdy.,	South,	480.90		480.90		
South bdy.	East,	478.16			478.16	
	N. 0° 21' W.	40.08	40.08			.24
	N. 0° 17' E.	40.06	40.06		.20	
	N. 0° 01' W.	80.10	80.10			.02
	N. 0° 20' W.	40.00	40.00			.23
East bdy.,	N. 0° 10' W.	40.10	40.10			.12
	N. 0° 01' W?	80.01	80.01			.02
	N. 0° 01' W.	40.01	40.01			.01
	N. 0° 07' W.	40.20	40.20			.08
	N. 0° 01' W.	80.18	80.18			.02
Convergency,						.48
	Totals,	-----	480.74	480.90	478.36	478.31
				480.74	478.31	
	Error in latitude,	-----		.16		
	Error in departure,	-----			.05	

GENERAL DESCRIPTION.

This township is level, and covered with dense brush. There is no water or timber in the township.

8. West boundary of Township 2 North Range 6 West.

Chains.

March 1, 1914:

At the cor. of Ts. 1 and 2 N., Rs. 6 and 7 W., established by Jesse B. Wright, U. S. Surveyor, as described in Book "A."

I set off 33° 28' N. on the lat. arc; 7° 42½' S. on the decl. arc; and determine a meridian with the solar at 7h. 30m. a.m., l.m.t.

Thence I run,

North, bet. secs. 31 and 36, on a true line.

Over level land, through dense brush.

40.00 Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in the ground, for ¼ sec. cor., marked on brass cap, ¼ S 36 in W., S 31 in E., and 1914 on S-half;

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

60.50 Cross wash, 250 lks. wide, 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, marked on brass cap, T 2 S in N., and 1914 in S-half;

R 7 W S 25 in NW.

R 6 W S 30 in NE.,

S 31 in SE., and

S 36 in SW. quadrant;

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

Land, level.

Soil, sandy loam, mixed with gravel, dry, coarse texture; 1st rate.

No timber.

Undergrowth, greasewood, mesquite, catclaw and palo verde.

North, bet. secs. 25 and 30;

Over level land, through dense brush.

15.85 Cross 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., marked on brass cap, ¼ S 25 in W., S 30 in E., and 1914 on S-half;

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

50.00 Cross wash, 100 lks. wide, course 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, marked on brass cap,

T 2 S in N., and 1914 in S-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;

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

Land, level.

Soil, sandy loam, mixed with gravel; dry, coarse texture; 1st rate.

No timber.

Undergrowth, greasewood, mesquite, catclaw and palo verde.

North, bet. secs. 19 and 24.

Over level land, through dense brush.

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

40.00 Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in the ground, for ¼ sec. cor., marked on brass cap, ¼ S 24 in W., S 19 in E., and 1914 in S-half;

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

80.00 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, marked on

Chains.

brass cap
 T2N in N. and 1914 in S. half;
 R7W S13 in N. W.
 R6W S18 in N. E.
 S19 in S. E. and
 S24 in S. W. quadrant; dig pits 18 x 18 x 12 ins. in
 each sec. 5½ ft. dist., and raise a mound of earth 4 ft.
 base 2 ft. high, W. of cor.
 Land, level.
 Soil, sandy loam, dry, medium texture; 1st. rate.
 No timber.
 Undergrowth, greasewood, mesquite, catclaw and paloverde.

Note. March 1: At this cor. I set off 7. 39½' S. on the decl.
 arc; and observe the sun on the meridian at noon; the
 resulting lat. is 33 30' N.

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

13.75 Cross wash 20 lks. wide course S. E.

40.00 Set an iron post 3 ft. long, 1 in. diam., 26 ins. in the
 ground for ¼ sec. cor., marked on brass cap ¼S13 in W.
 S18 in E. and 1914 in S. half; from which
 An ironwood 24 ins. diam., bears N. 33½ W. 214
 lks. dist., marked ¼S13BT.
 An ironwood 16 ins. diam., bears S. 2½ E. 169
 lks. dist., marked ¼S18BT.

80.00 Set an iron post 3 ft. long, 3 ins. diam., 24 ins. in the
 ground for cor. of secs. 7, 12, 13 and 18, marked on
 brass cap
 T2N in N. and
 1914 in S. half;
 R7W S12 in N. W.
 R6W S7 in N. E.
 S18 in S. E. and
 S13 in S. W. quadrant; dig pits 18 x 18 x 12 ins. in
 each sec. 5½ ft. dist., and raise a mound of earth 4 ft.
 base 2 ft. high, W. of cor.
 Land, level.
 Soil, sandy loam, dry, medium texture; 1st. rate.
 No timber.
 Undergrowth, greasewood, mesquite, ironwood and paloverde.

North bet. secs. 7 and 12.
 Over level land, through dense brush.

4.60 Cross wash 40 lks. wide course S. E.

26.40 Cross wash 20 lks. wide course S. E.

40.00 Set an iron post 3 ft. long, 1 in. diam., 26 ins. in the
 ground for ¼ sec. cor., marked on brass cap ¼S12 in W.
 S7 in E. and 1914 in S. half; dig pits 18 x 18 x 12 ins.
 N. and S. of post 3 ft. dist., and raise a mound of earth
 3½ ft. base 1½ ft. high, W. of cor.

59.80 Cross wash 25 lks. wide course S, E.

80.00 Set an iron post 3 ft. long, 3 ins. diam., 24 ins. in the
 ground for cor. of secs. 1, 6, 7 and 12, marked on brass
 cap
 T2N in N. and
 1914 in S. half;
 R7W S1 in N. W.
 R6W S6 in N. E.
 S7 in S. E. and
 S12 in S. W. quadrant; from which
 An ironwood 14 ins. diam., bears N. 63¾ W. 149
 lks. dist., marked T2NR7WS1BT
 A mesquite 7 ins. diam., bears N. 60¼ E. 53
 lks. dist., marked T2NR6WS6BT.
 A paloverde 5 ins. diam., bears S. 12 E. 194
 lks. dist., marked T2NR6WS7BT.

Chains.

A paloverde 8 ins. diam., bears S. $9\frac{3}{4}$ W. 123
lks. dist., marked T2NR7WS12BT.

Land, level.

Soil, sandy loam, dry, medium texture; 1st. rate.

No timber.

Undergrowth, greasewood, mesquite, paloverde and ironwood.

North bet. secs. 1 and 6.

Over level land, through dense brush.

- 1.20 Cross wash 6 lks. wide course S. E.
40.00 Set an iron post 3 ft. long, 1 in. diam., 26 ins. in the
ground for $\frac{1}{4}$ sec. cor., marked on brass cap $\frac{1}{4}$ S1 in W.
S6 in E. and 1914 in S. half; from which
A paloverde 12 ins. diam., bears N. 63 W. 70
lks. dist., marked $\frac{1}{4}$ S1BT.
An ironwood 8 ins. diam., bears S. $14\frac{3}{4}$ E. 70
lks. dist., marked $\frac{1}{4}$ S6BT.
- 46.20 Cross wash 8 lks. wide course S. E.
58.95 Cross wash 6 lks. wide course S. E.
79.55 Cross wash 8 lks. wide course S. E.
80.00 Set an iron post 3 ft. long, 3 ins. diam., 24 ins. in the
ground for cor. of Tps. 2 and 3 N. Rgs. 6 and 7 W.,
marked on brass cap
T3N in N.
R6W in E.
T2N 1914 in S. and
R7W in W. half;
S36 in N. W.
S31 in N. E.
S6 in S. E. and
S1 in S. W. quadrant; from which
An ironwood 8 ins. diam., bears N. $52\frac{1}{4}$ W. 196
lks. dist., marked T3NR7WS36BT
A paloverde 12 ins. diam., bears N. $52\frac{3}{4}$ E. 535
lks. dist., marked T3NR6WS31BT
An ironwood 6 ins. diam., bears S. $9\frac{1}{4}$ E. 166
lks. dist., marked T2NR6WS6BT.
An ironwood 6 ins. diam., bears S. 61 W. 70
lks. dist., marked T2NR7WS1BT.

Land, level.

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

No timber.

Undergrowth, greasewood, ironwood and paloverde.

March 1, 1914.

East boundary of Tp. 2 N. Rg. 6 W.

Chains.

1914:

February 25^A I examine the adjustments of the transit and find them correct; then, to test the solar apparatus, by comparing its indications, resulting from solar observations made during a.m., and p.m. hours, with a meridian determined by observations on Polaris, I proceed as follows:

At camp which is located near the cor. of Tps. 1 and 2 N. Rgs. 6 and 7 W.; latitude $33^{\circ} 27' 46''$ N., longitude $112^{\circ} 55' 44''$ W.; I set off $33^{\circ} 28'$ N. on the lat. arc; $9^{\circ} 04'$ S. on the decl. arc; and, at 4h. 30m. p.m., l.m.t., determine with the solar a meridian and mark a point thereof, on a stone firmly set in the ground, 5 chs. N. of the cor.

At 9h. 05m. p.m. by my watch, which has correct l.m.t., I observe Polaris at western elongation, in accordance with Manual of Instructions, and mark a point in the line thus determined, on a peg driven in the ground, 5 chs. N. of my station

February 25, 1914.

1914:

February 26^A At 7h. 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 cutting a small groove in the stone set February 25, on which the meridian coincides with the mark determined by the solar.

At 7h. 30m. a.m., l.m.t., I set off $33^{\circ} 28'$ N. on the lat. arc; $8^{\circ} 50'$ S. on the decl. arc; and mark a point in the meridian determined with the solar, by a cross on the stone already set 5 chs. N. of my station; this mark coincides with the meridian established by the Polaris observation.

The solar apparatus, by p.m. and a.m. observations, defines positions for meridians which coincide with the meridian established by the Polaris observations; therefore, I conclude that the adjustments of the instrument are satisfactory.

The magnetic bearing of the true meridian, at 7h. 45m. a.m., is N. $14^{\circ} 30'$ W.; the angle thus determined gives the magnetic decl. $14^{\circ} 30'$ E.

I commence at the cor. of Tps. 1 and 2 N. Rgs. 5 and 6 W. recently established by Jesse B. Wright, U. S. Surveyor, as described in Book "A."

Thence I run

North bet. secs. 31 and 36, on a true line.

Over level land, through dense brush.

40.00

Set an iron post 3 ft. long, 1 in. diam., 26 ins. in the ground for $\frac{1}{4}$ sec. cor., marked on brass cap $\frac{1}{4}$ S36 on W. S31 in E. and 1914 in S. half; from which

A paloverde 12 ins. diam., bears N. 27 E. 254 lks. dist., marked $\frac{1}{4}$ S31BT.

A paloverde 14 ins. diam., bears N. 76 W. 48 lks. dist., marked $\frac{1}{4}$ S36BT.

44.50

Cross wash 8 lks. wide course S. W.

60.70

Cross wash, same, 8 lks. wide course S. E.

80.00

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

T2N in N. and

1914 in S. half;

R6W S25 in N. W.

R5W S30 in N. E.

S31 in S. E. and

S36 in S. W. quadrant; dig pits 18 x 18 x 12 ins. in each sec. $5\frac{1}{2}$ ft. dist., and raise a mound of earth 4 ft. base 2 ft. high, W. of cor.

Land, level.

Soil, sandy loam, dry, medium texture; 1st. bate.

No timber.

Undergrowth, greasewood, ironwood, paloverde and mesquite.

Chains.

- North bet. secs. 25 and 30.
Over level land, through dense brush.
- 40.00 Set an iron post 3 ft. long, 1 in. diam., 26 ins. in the ground for $\frac{1}{4}$ sec. cor., marked on brass cap $\frac{1}{4}$ S25 in W. S30 in E. and 1914 in S. half; dig pits 18 x 18 x 12 ins. N. and S. of post 3 ft. dist., and raise a mound of earth $3\frac{1}{2}$ ft. base $1\frac{1}{2}$ ft. high, W. of cor.
- 80.00 Set an iron post 3 ft. long, 3 ins. diam., 24 ins. in the ground for cor. of secs. 19, 24, 25 and 30, marked on brass cap
T2N in N. and
.1914 in S. half;
R6W S24 in N. W.
R5W S19 in N. E.
S30 in S. E. and
S25 in S. W. quadrant; dig pits 18 x 18 x 12 ins. in each sec. $5\frac{1}{2}$ ft. dist., and raise a mound of earth 4 ft. base 2 ft. high, W. of cor.
Land, level.
Soil, sandy loam, dry, medium texture; 1st. rate.
No timber.
Undergrowth, greasewood and sage.

February 26, 1914.

1914:
March 2: At 8h 00m. a.m., l.m.t., I set off $33^{\circ}28\frac{1}{2}'$ N. on the lat. arc; $7^{\circ}20'$ S. on the decl. arc; and determine a meridian with the solar at the cor. of secs. 19, 24, 25 and 30.

Thence I run

- North bet. secs. 19 and 24.
Over level land, through dense brush.
- 40.00 Set an iron post 3 ft. long, 1 in. diam., 26 ins. in the ground for $\frac{1}{4}$ sec. cor., marked on brass cap $\frac{1}{4}$ S24 in W. S19 in E. and 1914 in S. half; dig pits 18 x 18 x 12 ins. N. and S. of post 3 ft. dist., and raise a mound of earth $3\frac{1}{2}$ ft. base $1\frac{1}{2}$ ft. high, W. of cor.
- 80.00 Set an iron post 3 ft. long, 3 ins. diam., 24 ins. in the ground for cor. of secs. 13, 18, 19 and 24, marked on brass cap
T2N. in N. and
1914 in S. half;
R6W S13 in N. W.
R5W S18 in N. E.
S19 in S. E. and
S24 in S. W. quadrant; dig pits 18 x 18 x 12 ins. in each sec. $5\frac{1}{2}$ ft. dist., and raise a mound of earth 4 ft. base 2 ft. high, W. of cor.
Land, level.
Soil, sandy loam, dry, medium texture; 1st. rate.
No timber.
Undergrowth, greasewood.

- North bet. secs. 13 and 18.
Over level land, through dense brush.
- 40.00 Set an iron post 3 ft. long, 1 in. diam., 26 ins. in the ground for $\frac{1}{4}$ sec. cor., marked on brass cap $\frac{1}{4}$ S13 in W. S18 in E. and 1914 in S. half; dig pits 18 x 18 x 12 ins. N. and S. of post 3 ft. dist., and raise a mound of earth $3\frac{1}{2}$ ft. base $1\frac{1}{2}$ ft. high, W. of cor.
- 80.00 Set an iron post 3 ft. long, 3 ins. diam., 24 ins. in the ground for cor. of secs. 7, 12, 13 and 18, marked on brass cap
T2N in N. and
1914 in S. half;
R6W S12 in N. W.
R5W S7 in N. E.
S18 in S. E. and
S13 in S. W. quadrant; from which,

Chains.

- A paloverde 6 ins. diam., bears N. 53 W. 230 lks. dist., marked T2NR6WS12BT.
- A paloverde 12 ins. diam., bears N. 62 $\frac{1}{2}$ E. 734 lks. dist., marked T2NR5WS7BT.
- An ironwood 14 ins. diam., bears S. 3 E. 145 lks. dist., marked T2NR5WS18BT.
- A paloverde 6 ins. diam., bears S. 10 $\frac{1}{2}$ W. 159 lks. dist., marked T2NR6WS13BT.

Land, level.
 Soil, sandy loam, dry, medium texture; 1st. rate.
 No timber.
 Undergrowth, greasewood, ironwood and paloverde.

North bet. secs. 7 and 12.
 Over level land, through dense brush.

- 40.00 Set an iron post 3 ft. long, 1 in. diam., 26 ins. in the ground for $\frac{1}{4}$ sec. cor., marked on brass cap $\frac{1}{4}$ S12 in W. S7 in E. and 1914 in S. half; from which
 - A paloverde 5 ins. diam., bears S. 10 $\frac{1}{4}$ E. 86 lks. dist., marked $\frac{1}{4}$ S7BT.
 - A paloverde 4 ins. diam., bears N. 46 $\frac{1}{4}$ W. 236 lks. dist., marked $\frac{1}{4}$ S12BT.

- 80.00 Set an iron post 3 ft. long, 3 ins. diam., 24 ins. in the ground for cor. of secs. 1, 6, 7 and 12, marked on brass cap
 - T2N in N. and 1914 in S. half;
 - R6W S1 in N. W.
 - R5W S6 in N. E.
 - S7 in S. E. and S12 in S. W. quadrant; dig pits 18 x 18 x 12 ins. in each sec. 5 $\frac{1}{2}$ ft. dist., and raise a mound of earth 4 ft. base 2 ft. high, W. of cor.

Land, level.
 Soil, sandy loam, dry, medium texture; 1st. rate.
 No timber.
 Undergrowth, greasewood, ironwood and paloverde.

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

- 40.00 Set an iron post 3 ft. long, 1 in. diam., 26 ins. in the ground for $\frac{1}{4}$ sec. cor., marked on brass cap $\frac{1}{4}$ S1 in W. S6 in E. and 1914 in S. half; dig pits 18 x 18 x 12 ins. N. and S. of post 3 ft. dist., and raise a mound of earth 3 $\frac{1}{2}$ ft. base 1 $\frac{1}{2}$ ft. high, W. of cor.

- 80.00 Set an iron post 3 ft. long, 3 ins. diam., 24 ins. in the ground for cor. of Tps. 2 and 3 N. Rgs. 5 and 6 W. marked on brass cap
 - T3N in N.
 - R5W in E.
 - T2N 1914 in S. and R6W in W. half;
 - S36 in N. W.
 - S31 in N. E.
 - S6 in S. E. and S1 in S. W. quadrant; from which
 - A paloverde 6 ins. diam. bears N. 84 $\frac{1}{2}$ W. 249 lks. dist., marked T3NR6WS36BT.
 - A paloverde 6 ins. diam., bears N. 55 $\frac{1}{2}$ E. 536 lks. dist., marked T3NR5WS31BT.
 - An ironwood 8 ins. diam., bears S. 8 $\frac{1}{4}$ E. 409 lks. dist., marked T2NR5WS6BT.
 - A paloverde 6 ins. diam., bears S. 60 W. 387 lks. dist., marked T2NR6WS1BT.

Land, level.
 Soil, sandy loam, dry, medium texture; 1st. rate.
 No timber.

14

Chains.

Undergrowth, greasewood, ironwood, paloverde and mesquite,
Note: March 2: At this cor. I set off 7' 17" S. on the decl.
arc; and observe the sun on the meridian at noon; the
resulting lat. is 33° 33' N.

March 2, 1914:

North boundary of Tp. 2 N. Rg. 6 W.

Chains.

1914:

March 2: At 1h. 00m. p.m., l.m.t., I set off 33° 33' N. on the lat. arc; 7° 16' S. on the decl arc; and determine a meridian with the solar at the cor. of Tps. 2 and 3 N. Rgs. 5 and 6 W. hereinbefore described.

Thence I run

West on a random line, setting temp. 1 sec. and sec. cors. at intervals of 40.00 chs.; and, at 479.26 chs., intersect the W. bdy. of the Tp., 42 lks. N. of the cor. of Tps. 2 and 3 N. Rgs. 6 and 7 W. hereinbefore described, The falling answers to a correction of 0° 03', or 7 lks. S. per mile, counting from the N. E. cor. of the Tp.;

March 2 and 3, 1914.

March 3, 1914: At 9h. 00m. a.m., l.m.t., I set off 33° 33' N. on the lat. arc; 6° 56½' S. on the decl. arc; and determine a meridian with the solar at the cor. of Tps. 2 and 3 N. Rgs. 6 and 7 W. hereinbefore described

Thence I run

N. 89° 57' E., bet. secs. 6 and 31, marking and blazing true line.

Over level land, through dense brush.

- 6.50 Cross wash 10 lks. wide course S.
- 20.65 Cross wash 15 lks. wide course S. E.
- 33.60 Cross wash 8 lks. wide course S. E.
- 39.26 Set an iron post 3 ft. long, 1 in. diam., 26 ins. in the ground for ¼ sec. cor., marked on brass cap ¼S31 in N. and S6 1914 in S. half; dig pits 18 x 18 x 12 ins. E. and W. of post 3 ft. dist., and raise a mound of earth 3½ ft. base 1½ ft. high, N. of cor.
- 46.30 Cross wash 10 lks. wide course S. E.
- 48.50 Cross wash 5 lks. wide course S. E.
- 55.25 Cross wash 5 lks. wide course S.
- 61.75 Cross wash 12 lks. wide course S. E.
- 74.65 Cross wash 5 lks. wide course S. E.
- 79.26 Set an iron post 3 ft. long, 3 ins. diam., 24 ins. in the ground for cor. of secs. 5, 6, 31 and 32, marked on brass cap

T3N in N.

T2N 1914 in S. and

R6W in W. half;

S31 in N. W.

S32 in N. E.

S5 in S. E. and

S6 in S. W. quadrant; from which

An ironwood 4 ins. diam., bears N. 13¾ W. 168 lks. dist., marked T3NR6WS31BT.

An ironwood 8 ins. diam., bears N 22½ E. 634 lks. dist., marked T3NR6WS32BT.

A paloverde 4 ins. diam., bears S. 41½ E. 214 lks. dist., marked T2NR6WS5BT.

An ironwood 14 ins. diam., bears S. 3 W. 304 lks. dist., marked T2NR6WS6BT.

Land, level.

Soil, sandy loam, dry, medium texture; 1st. rate.

No timber.

Undergrowth, greasewood, ironwood and paloverde.

N. 89° 57' E. bet. secs. 5 and 32.

Over level land, through dense brush.

- 8.50 Cross wash 8 lks. wide course S.
- 10.60 Cross wash 10 lks. wide course S. E.
- 21.10 Cross wash 8 lks. wide course S. E.
- 25.90 Cross wash 6 lks. wide course S.
- 37.75 Cross wash 6 lks. wide course S.
- 40.00 Set an iron post 3 ft. long, 1 in. diam., 26 ins. in the

chains.

- ground for $\frac{1}{4}$ sec. cor., marked on brass cap $\frac{1}{4}$ S32 in N. and S5 1914 in S. half; from which
- A paloverde 6 ins. diam., bears N. $28\frac{1}{2}$ W. 292 lks. dist., marked $\frac{1}{4}$ S32BT.
 - A paloverde 12 ins. diam., bears S. $69\frac{3}{4}$ W 180 lks. dist., marked $\frac{1}{4}$ S5BT.
- 70.05 Cross wash 25 lks. wide course S.
 79.55 Cross wash 6 lks. wide course S. E.
 80.00 Set an iron post 3 ft. long, 3 ins. diam., 24 ins. in the ground for cor. of secs. 4, 5, 32 and 33 marked on brass cap
- T3N in N.
 - T2N 1914 in S. and
 - R6W in W. half;
 - S32 in N. W.
 - S33 in N. E.
 - S4 in S. E. and
 - S5 in S. W. quadrant; from which
 - A paloverde 4 ins. diam., bears N. $31\frac{1}{4}$ W. 104 lks. dist., marked T3NR6WS32BT.
 - A paloverde 6 ins. diam., bears N. $63\frac{3}{4}$ E. 182 lks. dist., marked T3NR6WS33BT.
 - A paloverde 12 ins. diam., bears S. $13\frac{1}{2}$ E. 129 lks. dist., marked T2NR6WS4BT.
 - An ironwood 30 ins. diam., bears S. $14\frac{3}{4}$ W. 162 lks. dist., marked T2NR6WS5BT.

Land, level.

Soil, sandy loam, dry, medium texture; 1st. rate.

No timber.

Undergrowth, greasewood, ironwood, and paloverde.

Note: March 3; at this cor. I set off 6' 54" S. on the decl. arc; and observe the sun on the meridian at noon; the resulting lat. is 33° 33' N.

- N. 89° 57' E. bet. secs. 4 and 33.
 Over level land, through dense brush.
- 0.90 Cross wash 20 lks. wide course S.
 24.45 Cross wash 6 lks. wide course S.
 40.00 Set an iron post 3 ft. long, 1 in. diam., 26 ins. in the ground for $\frac{1}{4}$ sec. cor., marked on brass cap $\frac{1}{4}$ S33 in N. and S4 1914 in S. half; dig pits 18 x 18 x 12 ins. E. and W. of post 3 ft. dist., and raise a mound of earth $3\frac{1}{2}$ ft. base $1\frac{1}{2}$ ft. high, N. of cor..
- 80.00 Set an iron post 3 ft. long, 3 ins. diam., 24 ins. in the ground for cor. of secs. 3, 4, 33 and 34, marked on brass cap
- T3N in N.
 - T2N.1914 in S. and
 - R6W in W. half;
 - S33.in N. W.
 - S34 in N. E.
 - S3 in S. E. and
 - S4 in S. W. quadrant; dig pits 18 x 18 x 12 ins. in each sec. $5\frac{1}{2}$ ft. dist., and raise a mound of earth 4 ft. base 2 ft. high, W. of cor.
- Land, level.
 Soil, sandy loam, dry, medium texture; 1st. rate.
 No timber.
 Undergrowth, greasewood and paloverde.

N. 89° 57' E. bet. secs. 3 and 34.

Over level land, through dense brush.

- 3.30 Cross road bears N. E. and S. W.
 12.40 Cross road bears N. E. and S. W..
 40.00 Set an iron post 3 ft. long, 1 in. diam., 26 ins. in the ground for $\frac{1}{4}$ sec. cor., marked on brass cap $\frac{1}{4}$ S34 in N. and S3 1914 in S. half; dig pits 18 x 18 x 12 ins. E. and W. of post 3 ft. dist., and raise a mound of earth $3\frac{1}{2}$ ft.

North boundary of Tp. 2 N. Rg. 6 W.

Chains	
78.25	base 1½ ft. high, N. of cor.
80.00	Cross wash 8 lks. wide course S.
	Set an iron post 3 ft. long, 3 ins. diam. 24 ins. in the ground for cor. of secs. 2, 3, 34 and 35, marked on brass cap
	T3N in N.
	T2N 1914 in S. and
	R6W in W. half;
	S34 in N. W.
	S35 in N. E.
	S2 in S. E. and
	S3 in S. W. quadrant; dig pits 18 x 18 x 12 ins. in each sec. 5½ ft. dist., and raise a mound of earth 4 ft. base 2 ft. high, W. of cor.
	Land, level.
	Soil, sandy loam, fine texture; dry; 1st. rate.
	No timber.
	Undergrowth, greasewood.
6.80	N. 89 57' E. bet. secs. 2 and 35.
40.00	Over level land, through dense brush.
	Cross wash 15 lks. wide course S.
	Set an iron post 3 ft. long, 1 in. diam., 26 ins. in the ground for ¼ sec. cor., marked on brass cap ¼S35 in N. and S2 1914 in S. half; dig pits 18 x 18 x 12 ins. E. and W. of post 3 ft. dist., and raise a mound of earth 3½ ft. base 1½ ft. high, N, of cor.
74.50	Cross wash 8 lks. wide course S.
80.00	Set an iron post 3 ft. long, 3 ins. diam., 24 ins. in the ground for cor. of secs. 1, 2, 35 and 36, marked on brass cap
	T3N in N.
	T2N 1914 in S. and
	R6W in W. half;
	S35 in N. W.
	S36 in N. E.
	S1 in S. E. and
	S2 in S. W. quadrant; from which
	An ironwood 5 ins. diam., bears N. 62½ W. 376
	lks. dist., marked T3NR6WS35BT.
	An ironwood 4 ins. diam., bears N. 79½ E. 376
	lks. dist., marked T3NR6WS36BT.
	A paloverde 4 ins. diam., bears S. 40½ E. 336
	lks. dist., marked T2NR6WS1BT.
	A paloverde 6 ins. diam., bears S. 14 W. 541
	lks. dist., marked T2NR6WS2BT.
	Land, level.
	Soil, sandy loam, dry, fine texture; 1st. rate.
	No timber.
	Undergrowth, greasewood, ironwood and paloverde.
40.00	N. 89 57' E. bet. secs. 1 and 36.
	Over level land, through dense brush.
	Set an iron post 3 ft. long, 1 in. diam., 26 ins. in the ground for ¼ sec. cor., marked on brass cap ¼S36 in N. and S1 1914 in S. half; from which
	An ironwood 24 ins. diam., bears N. 65 W. 180
	lks. dist., marked ¼S36BT
	An ironwood 12 ins. diam., bears S. 71 W. 180
	lks. dist., marked ¼S1BT.
46.80	Cross road bears N. and S.
65.60	Cross wash 6 lks. wide course S.
77.00	Cross wash 6 lks. wide course S.
80.00	The cor. of Tps. 2 and 3 N. Rgs. 5 and 6 W. heretofore described.
	Land, level.
	Soil, sandy loam, dry, medium texture; 1st. rate.

chains.

No timber.
Undergrowth, greasewood, mesquite, ironwood and paloverde
March 3, 1914.

Boundaries of Tp. 2 N. Rg. 6 W.
Latitudes, departures and closing errors.

Line designated.	True bearing.	Distance	Latitudes		Departures	
			N.	S.	E.	W.
South boundary	N. 89° 59' E.	479.62	.14		479.62	
East boundary	North	480.00	480.00			
North boundary	S. 89° 57' W.	479.26		.42		479.26
West boundary	South	480.00		480.00		
Convergency.						.48
Totals.			480.14	480.42	479.62	479.74
Error in lat.				480.14		479.62
				.28		
						.12

General Description.

This township is level and covered with dense brush.
There is no water or timber in the township.

John P. Hesse
U.S. Surveyor

Chains.

February 23, 1914: At 8h. 00m. a.m., l.m.t., I set off 33° 17 1/2' N. on the lat. arc; 9° 56 1/2' S. on the decl. arc; and determine a meridian with the solar at the cor. of Ts. 1 and 2 S., Rs. 6 and 7 W., which I established as hereinbefore described. Thence I run, West, bet. secs. 1 and 36, on a true line.

20.00
40.00

Over level land, through dense brush. Cross wash, 20 lks. wide, course NE. Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in the ground, for 1/4 sec. cor., marked on brass cap, 1/4 S 36 in N., and S 1 1914 in S. half;

74.00
80.00

dig pits 18x18x12 ins., E. and W. of post, 3 ft. dist., and raise a mound of earth 3 1/2 ft. base, 1 1/2 ft. high, N. of cor. Cross road brs. N. and S. 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, marked on brass cap,

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

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

Land, level. Soil, sandy loam, mixed with gravel and oak, 2nd rate. No timber. Undergrowth, greasewood and palo verde. Feb. 23, 1914.

March 12, 1914: At 8h. 00m. a.m., l.m.t., I set off 33° 17 1/2' N. on the lat. arc; 3° 27 1/2' S. on the decl. arc; and determine a meridian with the solar at the cor. of secs. 1, 2, 35 and 36.

6.18
28.35
40.00

Thence I run, West, bet. secs. 2 and 35. Over level land, through dense brush. Cross wash, 40 lks. wide, course NW. Cross wash, 50 lks. wide, course NE. Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in the ground for 1/4 sec. cor., marked on brass cap, 1/4 S 35 in N., and S 2 1914 in S. half;

73.13
80.00

dig pits 18x18x12 ins., E. and W. of post, 3 ft. dist., and raise a mound of earth 3 1/2 ft. base, 1 1/2 ft. high, N. of cor. Cross road, bra. 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, marked on brass cap,

T 1 S in N.,
T 2 S 1914 in S., and
R 7 W in W. half;
S 34 in NW.,
S 35 in NE.,
S 2 in SE., and
S 3 in SW. quadrant;

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

Land, level. Soil, sandy loam, mixed with rocks and gravel; 2nd rate. No timber. Undergrowth, greasewood and palo verde.

Chains.

West bet. secs. 5 and 32.
Over rolling land, through dense brush.

0.70 Cross wash 20 lks. wide course N. E.
10.67 Windmill bears N. 10° 44' W.
31.30 Cross wash 15 lks. wide course N. E.
40.00 Set an iron post 3 ft. long, 1 in. diam., 26 ins. in the ground for $\frac{1}{4}$ sec. cor., marked on brass cap $\frac{1}{4}$ S32 in N. and S5 1914 in S. half; dig pits 18 x 18 x 12 ins. E. and W. of post 3 ft. dist., and raise a mound of earth $3\frac{1}{2}$ ft. base $1\frac{1}{2}$ ft. high, N. of cor.

42.60 Cross road bears N. and S.
57.75 Cross wash 40 lks. wide course N. E.
62.40 Cross wash 100 lks. wide course N. E.
71.45 Cross road bears N. E. and S. W.
80.00 Set an iron post 3 ft. long, 3 ins. diam., 24 ins. in the ground for cor. of secs. 5, 6, 31 and 32, marked on brass cap
T1S in N.
T2S 1914 in S. and
R7W in W. half;
S31 in N. W.
S32 in N. E.
S5 in S. E. and
S6 in S. W. quadrant; dig pits 18 x 18 x 12 ins. in each sec. $5\frac{1}{2}$ ft. dist., and raise a mound of earth 4 ft. base 2 ft. high, W. of cor.
Land, level and rolling.
Soil, rich sandy loam, medium texture, dry; 1st. rate. except from 4.00 chs. to 24.00 chs. which is mixed with gravel and rocks; 2nd. rate.
No timber.
Undergrowth, greasewood, mesquite and paloverde.

West bet. secs. 6 and 31.
Over level land, through dense brush.

25.00 Land becomes rolling..
40.00 Set an iron post 3 ft. long, 1 in. diam., 26 ins. in the ground for $\frac{1}{4}$ sec. cor., marked on brass cap $\frac{1}{4}$ S31 in N. and S6 1914 in S. half; dig pits 18 x 18 x 12 ins. E. and W. of post 3 ft. dist., and raise a mound of earth $3\frac{1}{2}$ ft. base $1\frac{1}{2}$ ft. high, N. of cor.

78.16 Set an iron post 3 ft. long, 3 ins. diam., 24 ins. in the ground for cor. of Tps. 1 and 2 S. Rgs. 7 and 8 W. marked on brass cap
T1S in N.
R7W in E.
T2S 1914 in S. and
R8W in W. half;
S36 in N. W.
S31 in N. E.
S6 in S. E. and
S1 in S. W. quadrant; dig pits 24 x 24 x 12 ins., on each line, N., 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, S. of cor.
Land, level and rolling.
Soil, E. 25.00 chs. sandy loam, dry, medium texture; 1st. rate. W. 55.00 chs. sandy loam mixed with rocks and gravel 2nd. rate.
No timber.
Undergrowth, greasewood and paloverde.

March 12, 1914.

South boundary of Tp. 1 S. Rg. 7 W.

Chains.

West bet. secs. 3 and 34.

Over rolling land, through dense brush.

40.00 Set an iron post 3 ft. long, 1 in. diam., 26 ins. in the ground for $\frac{1}{4}$ sec. cor., marked on brass cap $\frac{1}{4}$ S34 in N. and S3 1914 in S. half; dig pits 18 x 18 x 12 ins. E. and W. of post 3 ft. dist., and raise a mound of earth $3\frac{1}{2}$ ft. base $1\frac{1}{2}$ ft. high, N. of cor.

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

T1S in N.

T2S 1914 in S. and

R2W in W. half;

S33 in N. W.

S34 in N. E.

S3 in S. E. and

S4 in S. W. quadrant; from which

A paloverde 4 ins. diam., bears N. $77\frac{1}{4}$ W. 136 lks. dist., marked T1SR7WS33BT

A paloverde 7 ins. diam., bears N. $85\frac{1}{2}$ E. 126 lks. dist., marked T1SR7WS34BT.

A paloverde 4 ins. diam., bears S. $77\frac{1}{2}$ E. 465 lks. dist., marked T2SR7WS3BT.

A paloverde 4 ins. diam., bears S2 W. 279 lks. dist., marked T2SR7WS4BT.

Land, rolling,

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

No timber.

Undergrowth, greasewood and paloverde.

West bet. secs. 4 and 33

Over rolling land, through dense brush.

40.00 Set an iron post 3 ft. long, 1 in. diam., 26 ins. in the ground for $\frac{1}{4}$ sec. cor., marked on brass cap $\frac{1}{4}$ S33 in N. and S4 1914 in S. half; and raise a mound of stone 2 ft. base $1\frac{1}{2}$ ft. high, N. of cor. Pits impracticable.

44.00 Cross dim. road bears N. and S.

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

72.30 Cross wash 60 lks. wide course N.

78.50 Cross wash 50 lks. wide course N.

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

T1S in N.

T2S 1914 in S. and

R7W in W. half;

S32 in N. W.

S33 in N. E.

S4 in S. E. and

S5 in S. W. quadrant; from which

A mesquite 10 ins. diam., bears S. $45\frac{1}{2}$ E. 90 lks. dist., marked T2SR7WS4BT

A mesquite 6 ins. diam., bears S. $45\frac{1}{2}$ W. 64 lks. dist., marked T2SR7WS5BT.

No other trees available. Dig pits 18 x 18 x 12 ins. in each sec. $5\frac{1}{2}$ ft. dist., and raise a mound of earth 4 ft. base 2 ft. high, W. of cor.

Land, rolling.

Soil, E. 65.00 chs. sandy loam, mixed with rocks and gravel; 2nd. rate. W. 15.00 chs. rich sandy loam, dry, medium texture; 1st. rate.

No timber.

Undergrowth, greasewood, mesquite and paloverde.

Note: March 12: At this cor. I set off 3' 24" S. on the decl. arc; and observe the sun on the meridian at noon; the resulting lat. is $33^{\circ} 17\frac{1}{2}'$ N.

Chains.	
.45.25	Cross wash 30 lks. wide course N. E.
49.40	Cross fence bears E. and W.
53.85	Cross fence bears N. E. and S. W.
53.90	Cross wash course E., 125 lks. wide .
72.65	Cross wash 100 lks. wide course S. E.
74.85	Cross wash 30 lks. wide course S. E.
80.00	Set an iron post 3 ft. long, 3 ins. diam., 24 ins. in the ground for cor. of secs. 13, 18, 19 and 24, marked on brass cap T1S in N. and 1914 in S. half; R8W S13 in N. W. R7W S18 in N. E. S19 in S. E. and S24 in S. W. quadrant; from which A mesquite 6 ins. diam., bears N. $33\frac{1}{2}$ E. 53 lks. dist., marked T1SR7WS18BT A mesquite 12 ins. diam., bears S. 16 W. 59 lks. dist., marked T1SR8WS24BT. No other trees available. Dig pits 18 x 18 x 12 ins. in each sec. $5\frac{1}{2}$ ft. dist., and raise a mound of earth 4 ft. base 2 ft. high, W. of cor. Land, level. Soil, sandy loam, dry, medium texture, dry; 1st. rate. No timber. Undergrowth, greasewood and mesquite.
Note:	March 13: At this cor. I set off 3 $00\frac{1}{2}$ ' S. on the decl. arc; and observe the sun on the meridian at noon; the resulting lat. is $33^{\circ} 20'$ N.
	North bet. secs. 13 and 18. Over level land, through dense brush.
1.75	Cross road bears N. W. and S. E.
40.00	Set an iron post 3 ft. long, 1 in. diam., 26 ins. in the ground for $\frac{1}{4}$ sec. cor., marked on brass cap $\frac{1}{4}$ S13 in W. S18 in E. and 1914 in S. half; dig pits 18 x 18 x 12 ins. N. and S. of post 3 ft. dist., and raise a mound of earth $3\frac{1}{2}$ ft. base $1\frac{1}{2}$ ft. high, W. of cor. Over rolling land.
60.13	A point from which windmill at Mullen Wells bears S. $4^{\circ} 12'$ E.
80.00	Set an iron post 3 ft. long, 3 ins. diam., 24 ins. in the ground for cor. of secs. 7, 12, 13 and 18, marked on brass cap T1S in N. and 1914 in S. half; R8WS12 in N. W. R7W S7 in N. E. S18 in S. E. and S13 in S. W. quadrant; dig pits 18 x 18 x 12 ins. in each sec. $5\frac{1}{2}$ ft. dist., and raise a mound of earth 4 ft. base 2 ft. high, W. of cor. Land, level and rolling. Soil, S. 40.00 chs. sandy loam, medium texture; dry; 1st. rate. N. 40.00 chs. sandy loam mixed with rocks and gravel; 3rd. rate. No timber. Undergrowth, greasewood, mesquite and paloverde.
	North bet. secs. 7 and 12. Over rolling land, through dense brush.
40.00	Set an iron post 3 ft. long, 1 in. diam., 26 ins. in the ground for $\frac{1}{4}$ sec. cor., marked on brass cap $\frac{1}{4}$ S12 in W. S7 in E. and 1914 in S. half; dig pits 18 x 18 x 12 ins. N. and S. of post 3 ft. dist., and raise a mound of earth $3\frac{1}{2}$ ft. base $1\frac{1}{2}$ ft. high, W. of cor.
80.00	Set an iron post 3 ft. long, 3 ins. diam., 24 ins. in the ground for cor. of secs. 1, 6, 7, and 12, marked on brass

West boundary of Tp. 1 S. Rg. 7 W.

Chains.

1914:
March 13th At 8h. 00m. a.m., l.m.t., I set off 33 17 1/2' N. on the lat. arc; 3 04' S. on the decl. arc; and determine a meridian with the solar at the cor. of Tps. 1 and 2 S. Rgs. 7 and 8 W. hereinbefore described.

Thence I run
North bet. secs. 31 and 36, on a true line.
Over rolling land, through dense brush.

22.50

Top of round knoll, 3 chs. E.

30.00

Over level land.

40.00

Set an iron post 3 ft. long, 1 in. diam., 26 ins. in the ground for 1/4 sec. cor., marked on brass cap 1/4 S36 in W. S31 in E. and 1914 in S. half; dig pits 18 x 18 x 12 ins. N. and S. of post 3 ft. dist., and raise a mound of earth 3 1/2 ft. base 1 1/2 ft. high, W. of cor.

44.60

Cross dim road bears N. E. and S. W.

50.00

Over rolling land.

80.00

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

T1S in N. and

1914 in S. half;

R8W S25 in N. W.

R7W S30 in N. E.

S31 in S. E. and

S36 in S. W. quadrant; and raise a mound of stone 2 ft. base 1 1/2 ft. high, W. of cor. Pits impracticable.

Land, rolling and level.

Soil, sandy loam, mixed with rocks and gravel; 3rd. rate. No timber.

Undergrowth, greasewood.

North, bet. secs. 25 and 30.

Over rolling land, through dense brush.

40.00

Set an iron post 3 ft. long, 1 in. diam., 26 ins. in the ground for 1/4 sec. cor., marked on brass cap 1/4 S25 in W. S30 in E. and 1914 in S. half; and raise a mound of stone 2 ft. base 1 1/2 ft. high, W. of cor. Pits impracticable.

70.00

Over level land.

80.00

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

T1S in N. and

1914 in S. Half;

R8W S24 in N. W.

R7W S19 in N. E.

S30 in S. E. and

S25 in S. W. quadrant; dig pits .18 x 18 x 12 ins. in each sec. 5 1/2 ft. dist., and raise a mound of earth 4 ft. base 2 ft. high, W. of cor.

Land, level and rolling.

Soil, S. 70.00 chs. sandy loam mixed with rocks and gravel; 3rd. rate. N. 10.00 chs. sandy loam, dry, medium texture; 1st. rate.

No timber.

Undergrowth, greasewood, mesquite and paloverde.

North bet. secs. 19 and 24.

Over level land, through dense brush.

31.10

Cross dim road bears N. E. and S. W.

40.00

Set an iron post 3 ft. long, 1 in. diam., 26 ins. in the ground for 1/4 sec. cor., marked on brass cap 1/4 S 24 in W. S19 in E. and 1914 in S. half; dig pits 18 x 18 x 12 ins. N. and S. of post 3 ft. dist., and raise a mound of earth 3 1/2 ft. base 1 1/2 ft. high, W. of cor.

From this cor.

windmill at Mullen Wells bears N. 8° 22' E.

West boundary of Township 1 South, Range 7 West.

Chains.

cap,
 T 1 S in N., and
 1914 in S. half;
 R 8 W S 1 in NW.
 R 7 W S 6 in NE.;
 S 7 in SE., and
 S 12 in SW. quadrant;
 and raise a mound of stone 2 ft. base, 1½ ft. high, W. of
 cor.
 Pits impracticable.
 Land, rolling.
 Soil sandy, mixed with rocks and gravel; 3rd rate.
 No timber.
 Undergrowth, greasewood, mesquite, and palo verde.

40.00 North, bet. secs. 1 and 6.
 Over rolling land, through dense brush.
 Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in the
 ground, for ¼ sec. cor., marked on brass cap,
 ¼ S 1 in W.,
 S 6 in E., and
 1914 in S. half;
 dig pits 18x18x12 ins. N. and S. of post 3 ft. dist., and
 raise a mound of earth 3½ ft. base, 1½ ft. high, W. of cor.
 80.74 Intersect Gila and Salt River Base line 5.12 chs. east of
 the standard cor. of Ts. 1 N., Rs. 7 and 8 W., established
 by Jesse B. Wright, as described in Book "C." And 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. 1 S., Rs. 7 and 8 W.,
 marked on brass cap,
 C C S of center,
 T 1 N R 8 W S 36, R 7 W S 31 in N., and
 T 1 S 1914 in S. half;
 S 6, R 7 W in SE., and
 S 1 R 8 W in SW. quadrant;
 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, 2½ ft. high, S. of cor.
 Land, rolling.
 Soil, sandy, mixed with rocks and gravel; 3rd rate.
 No timber.
 Undergrowth, greasewood, palo verde, ironwood and mes-
 quite.

March 13, 1914.

Boundaries of Township 1 South, Range 7 West.
 Latitudes, departures, and closing errors.

Line desig- nated.	True bearing.	Dist.	Latitudes.		Departures.	
			N.	S.	E.	W.
North bdy.						
(G&SR. Base Line) West.	West.	477.79				477.79
West bdy.,	South,	480.74		480.74		
South bdy.,	East,	478.16			478.16	
East bdy.,	North,	480.90	480.90			
Convergency,						.48
	Totals,		480.90	480.74	478.16	478.27
			480.74			478.16
	Error in latitude,		.16			
	Error in departure,					.11

GENERAL DESCRIPTION.

This township is level except for a range of malpais hills in the western part. There is no water or timber in the township.

South boundary of Tp. 1 S. Rg. 9 W.

chains.

Survey commenced April 11, 1914, and executed with a Young and Sons light mountain transit, No. 8588, with ~~described in Book "A."~~ 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 the latitude and declination arcs.

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

At camp which is located near the standard cor. of Tps. 1 N., Rgs. 9 and 10 W.; latitude $33^{\circ} 22' 33''$ N., longitude $113^{\circ} 14' 23''$ W.; I set off $33^{\circ} 22\frac{1}{2}'$ N. on the lat. arc; $8^{\circ} 21'$ N. on the decl. arc; and, at 5h. 30m. p.m., l.m.t. determine with the solar a meridian and mark a point thereof, on a stone firmly set in the ground 5 chs. N. of my station.

At 6h. 08m. p.m. by my watch which has correct l.m.t., I observe Polaris at western elongation, in accordance with Manual of Instructions, and mark a point in the line thus determined, on a peg driven in the ground, 5 chs. N. of my station.

April 11, 1914.

1914:

April 12^a At 6h. 15m. 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 cutting a small groove in the stone set April 11, on which the meridian coincides with the mark determined by the solar.

At 6h. 30m. a.m., l.m.t., I set off $33^{\circ} 22\frac{1}{2}'$ N. on the lat. arc; $8^{\circ} 32\frac{1}{2}'$ N. on the decl. arc; and mark a point in the meridian determined with the solar, by a cross on the stone already set 5 chs. N. of my station; this mark coincides with the meridian established by the Polaris observation.

The solar apparatus, by p.m. and a.m. observations, defines positions for meridians which coincide with the meridian established by the Polaris observations; therefore I conclude that the adjustments of the instrument are satisfactory.

The magnetic bearing of the true meridian, at 6h. 35m. a.m., is N. $14^{\circ} 30'$ W.; the angle thus determined gives the mag. decl. $14^{\circ} 30'$ E.

I commence at the cor. of Tps. 1 and 2 S. Rgs. 8 and 9 W. established by Jesse B. Wright, U. S. Surveyor ~~as described in Book "A."~~

Thence I run

West bet. secs. 1 and 36, on a true line.

Over rolling land, through dense brush.

40.00 Set an iron post 3 ft. long, 1 in. diam., 26 ins. in the ground for $\frac{1}{4}$ sec. cor., marked on brass cap $\frac{1}{4}$ S36 in N. and S1 1914 in S. half; from which

A paloverde 7 ins. diam., bears N. 88 W. 54 lks. dist., marked $\frac{1}{4}$ S36BT.

A paloverde 6 ins. diam., bears S. $78\frac{1}{2}^{\circ}$ E. 150 lks. dist., marked $\frac{1}{4}$ S1BT.

61.15 Cross road bears N. W. and S. E.

70.95 Cross wash 20 lks. wide course S.

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

T1S in N. E.

T2S 1914 in S. and

R9W in W. half;

S35 in N. W.

S36 in N. E.

S1 in S. E. and

S2 in S. W. quadrant; from which

A paloverde 6 ins. diam., bears N. $34\frac{1}{2}^{\circ}$ E. 86

South boundary of Tp. 1 S. Rg. 9 W.

Chains.	
	<p>lks. dist., marked T1SR9WS36BT. No other bearings available. Dig pits 18 x 18 x 12 ins. in each sec. 5½ ft. dist., and raise a mound of earth 4 ft. base 2 ft. high, W. of cor. Land, rolling. Soil, E. 25.00 chs. sandy loam, mixed with gravel; 2nd. rate. W. 55.00 chs. sandy and rocky; 4th. rate. No timber. Undergrowth, greasewood, paloverde and ironwood.</p>
	<p>West bet. secs. 2 and 35. Over choppy hilly land, through dense brush.</p>
10.60	Enter wash 70 lks. wide course S. E. and along same to
15.00	Cross Leave wash 70 lks. wide course E. bears S. W.
28.20	Cross same wash 70 lks. wide course S. E.
40.00	Set an iron post 3 ft. long, 1 in. diam., 26 ins. in the ground for ¼ sec. cor., marked on brass cap ¼S35 in N. and S2 1914 in S. half; from which
	An ironwood 6 ins. diam., bears N. 66½ W. 230 lks. dist., marked ¼S35BT.
	A paloverde 6 ins. diam., bears S. 34½ W. 145 lks. dist., marked ¼S2BT.
80.00	Set an iron post 3 ft. long, 3 ins. diam., 24 ins. in the ground for cor. of secs. 2, 3, 34 and 35, marked on brass cap
	T1S in N. E.
	T2S 1914 in S. and
	R9W in W. half;
	S34 in N. W.
	S35 in N. E.
	S2 in S. E. and
	S3 in S. W. quadrant; from which
	An ironwood 6 ins. diam., bears N. 77½ W. 319 lks. dist., marked T1SR9WS34BT.
	A paloverde 8 ins. diam., bears N. 17½ E. 133 lks. dist., marked T1SR9WS35BT.
	A paloverde 6 ins. diam., bears S. 48½ E. 120 lks. dist., marked T2SR9WS2BT
	A paloverde 6 ins. diam., bears S. 65½ W. 44 lks. dist., marked T2SR9WS3BT.
	Land, hilly. Soil, rocky; 4th. rate. No timber. Undergrowth, greasewood, paloverde and ironwood.
	West bet. secs. 3 and 34. Over choppy hilly land, through dense brush.
21.20	Cross wash 30 lks. wide course N. E.
40.00	Set an iron post 3 ft. long, 1 in. diam., 26 ins. in the ground for ¼ sec. cor., marked on brass cap ¼S34 in N. and S3. 1914 in S. half; from which
	A paloverde 4 ins. diam., bears S. 65 W. 11 lks. dist., marked ¼S3BT.
	A paloverde 4 ins. diam., bears N. 21 E. 59 lks. dist., marked ¼S34BT.
43.00	Cross wash 30 lks. wide course N. E.
43.50	Cross same wash 20 lks. wide course S. E.
45.00	Cross same wash 20 lks. wide course N. E.
76.90	Cross wash 25 lks. wide course N.
80.00	Set an iron post 3 ft. long, 3 ins. diam., 24 ins. in the ground for cor. of secs. 3, 4, 33 and 34, marked on brass cap
	T1S in N.
	T2S 1914 in S. and
	R9W in W. half;
	S33 in N. W.
	S34 in N. E.

South boundary of Tp. 1 S. Rg. 9 W.

Chains.

S3 in S. E. and
 S4 in S. W. quadrant; from which
 A paloverde 5 ins. diam., bears N. $15\frac{1}{2}$ W. 111
 lks. dist., marked T1SR9WS33BT.
 A paloverde 5 ins. diam., bears N. $64\frac{1}{4}$ E. 96
 lks. dist., marked T1SR9WS34BT.
 A paloverde 4 ins. diam., bears S. $42\frac{1}{2}$ E. 94
 lks. dist., marked T2SR9WS3BT.
 A paloverde 4 ins. diam., bears S. 23 W. 208
 lks. dist., marked T2SR9WS4BT.

Land, hilly.
 Soil, rocky; 4th. rate.
 No timber.

Note: Undergrowth, greasewood, paloverde and ironwood.
 April 12: At this cor. I set off 8 $\sqrt{36}$ ' N. on the decl.
 arc; and observe the sun on the meridian at noon; the
 resulting lat. is $33\sqrt{17\frac{1}{2}}$ N.

West bet. secs. 4 and 33

40.00 Over choppy hills, through dense brush.
 Set an iron post 3 ft. long, 1 in. diam., 26 ins. in the
 ground for $\frac{1}{4}$ sec. cor., marked on brass cap $\frac{1}{4}$ S33 in N.
 and S4 1914 in S. half; from which
 An ironwood 5 ins. diam., bears N. 65 W. 39 lks.
 dist., marked $\frac{1}{4}$ S33BT.
 A paloverde 4 ins. diam., bears S. 70 E. 45 lks.
 dist., marked $\frac{1}{4}$ S4BT.

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

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

T1S in N.
 T2S 1914 in S. and
 R9W in W. half;
 S32 in N. W
 S33 in N. E.
 S4 in S. E. and
 S5 in S. W. quadrant; from which

A paloverde 4 ins. diam., bears N. $43\frac{1}{2}$ W. 97
 lks. dist., marked T1SR9WS32BT.
 A paloverde 7 ins. diam., bears N. 83 E. 232
 lks. dist., marked T1SR9WS33BT.
 An ironwood 8 ins. diam., bears S $16\frac{3}{4}$ E. 87
 lks. dist., marked T2SR9WS4BT.
 An ironwood 7 ins. diam., bears S. $32\frac{1}{4}$ W. 72
 lks. dist., marked T2SR9WS5BT.

Land, hilly.
 Soil, rocky; 4th. rate.
 No timber.
 Undergrowth, greasewood, paloverde and ironwood.

West bet. secs. 5 and 32.

13.90 Over choppy hilly land, through dense brush.
 Cross road bears N. E. and S. W.
 18.10 Cross wash 35 lks. wide course N. E.
 40.00 Set an iron post 3 ft. long, 1 in. diam., 26 ins. in the
 ground for $\frac{1}{4}$ sec. cor., marked on brass cap $\frac{1}{4}$ S32 in N.
 and S5 1914 in S. half; from which
 A paloverde 4 ins. diam., bears N. 46 W. 94
 lks. dist., marked $\frac{1}{4}$ S32BT.
 A paloverde 4 ins. diam., bears S. $21\frac{1}{2}$ E. 104
 lks. dist., marked $\frac{1}{4}$ S5BT.
 59.30 Cross wash 30 lks. wide course N.
 74.95 Cross wash 30 lks. wide course N.
 80.00 Set an iron post 3 ft. long, 3 ins. diam., 24 ins. in the
 ground for cor. of secs. 5, 6, 31 and 32, marked on brass
 cap
 T1S in N.

South boundary of Tp. 1 S. Rg. 9 W.

Chains.

T2s 1914 in S. and
 R9W in W. half;
 S31 in N. W.
 S32 in N. E.
 S5 in S. E. and
 S6 in S. W. quadrant; from which

- A paloverde 7 ins. diam., bears N. $18\frac{3}{4}$ W. 149 lks. dist., marked T1SR9WS31BT.
- A paloverde 6 ins. diam., bears N. 0 45' E. 355 lks. dist., marked T1SR9WS32BT.
- A paloverde 5 ins. diam., bears S. $59\frac{1}{4}$ E. 24 lks. dist., marked T2SR9WS5BT.
- A paloverde 6 ins. diam., bears S. $59\frac{1}{4}$ W. 73 lks. dist., marked T2SR9WS6BT.

Land, choppy hills.

Soil, rocky; 4th. rate.

No timber.

Undergrowth, greasewood, paloverde and ironwood.

West bet. secs. 6 and 31

Over choppy hilly land, through dense brush.

0.75 Cross wash 30 lks. wide course N.
 30.50 Cross wash 30 lks. wide course N.
 40.00 Set an iron post 3 ft. long, 1 in. diam., 26 ins. in the ground for $\frac{1}{4}$ sec. cor., marked on brass cap $\frac{1}{4}$ S31 in N. and S6 1914 in S. half; from which

- An ironwood 7 ins. diam., bears N. $59\frac{3}{4}$ E. 48 lks. dist., marked $\frac{1}{4}$ S31BT.
- An ironwood 8 ins. diam., bears S. $17\frac{1}{2}$ W. 61 lks. dist., marked $\frac{1}{4}$ S6BT.

46.45 Cross wash 75 lks. wide course N. E.
 75.80 Cross wash 12 lks. wide course N. W.
 78.16 Set an iron post 3 ft. long, 3 ins. diam., 24 ins. in the ground for cor. of Tps. 1 and 2 S. Rgs. 9 and 10 W., marked on brass cap

T1S in N.
 R9W in E.
 T2S 1914 in S. and
 R10W in W. half;
 S36 in N. W.
 S31 in N. E.
 S6 in S. E. and
 S1 in S. W. quadrant; from which

- A paloverde 5 ins. diam., bears N. 65 W. 212 lks. dist., marked T1SR10WS36BT.
- A paloverde 4 ins. diam., bears N. $32\frac{1}{4}$ E. 51 lks. dist., marked T1SR9WS31BT.
- A paloverde 5 ins. diam., bears S. $20\frac{1}{2}$ E. 104 lks. dist., marked T2SR9WS6BT.
- An ironwood 5 ins. diam., bears S. $77\frac{1}{2}$ W. 215 lks. dist., marked T2SR10WS1BT.

Land, hilly.

Soil, rocky; 4th. rate.

No timber.

Undergrowth, greasewood, paloverde and ironwood.

April, 12, 1914.

West boundary of Tp. 1 S. Rg. 9 W.

Chains.	1914.
	<p>April 13th. At 7h. oom. a.m., l.m.t., I set off 33 17$\frac{1}{2}$' N. on the lat. arc; 8 54' N. on the decl. arc; and determine a meridian with the solar at the cor. of Tps. 1 and 2 S. Rgs. 9 and 10 W. hereinbefore described.</p> <p>Thence I run</p> <p>North bet. secs. 31 and 36, on a true line. Over choppy hilly land, through dense brush.</p>
4.70	Cross wash 12 lks. wide course N. W.
6.70	Cross same wash 12 lks. wide course N. E.
40.00	Set an iron post 3 ft. long, 1 in. diam., 26 ins. in the ground for $\frac{1}{4}$ sec. cor., marked on brass cap $\frac{1}{4}$ S36 in W. S31 in E. and 1914 in S. half; dig pits 18 x 18 x 12 ins. N. and S. of post 3 ft. dist., and raise a mound of earth 3 $\frac{1}{2}$ ft. base 1 $\frac{1}{2}$ ft. high, W. of cor.
44.50	Cross wash 20 lks. wide course N. E.
51.40	Cross road bears E. and W.
74.00	Cross wash 12 lks. wide course N. E.
80.00	Set an iron post 3 ft. long, 3 ins. diam., 24 ins. in the ground for cor. of secs. 25, 30, 31 and 36, marked on brass cap T1S in N. and 1914 in S. half; R10WS25 in N. W. R9WS30 in N. E. S31 in S. E. and S36 in S. W. quadrant; dig pits 18 x 18 x 12 ins. in each sec. 5 $\frac{1}{2}$ ft. dist., and raise a mound of earth 4 ft. base 2 ft. high, W. of cor. Land, hilly. Soil, rocky; 4th. rate. No timber. Undergrowth, greasewood, paloverde and ironwood.
	<p>North bet. secs. 25 and 30. Over choppy hilly land, through dense brush.</p>
39.25	Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the ground for wit:cor. to $\frac{1}{4}$ sec. cor., marked on brass cap WC $\frac{1}{4}$ in N. and 1914 in S. half; S30 in S. E. and S25 in S. W. quadrant; from which A paloverde 12 ins. diam., bears N. 26 W. 67 lks. dist., marked WC $\frac{1}{4}$ S25BT. An ironwood 12 ins. diam., bears S. 78 E. 308 lks. dist., marked WC $\frac{1}{4}$ S30BT.
	Thence over rolling land.
40.00	Point for $\frac{1}{4}$ sec. cor., falls in wash 8 lks. wide course N. E.
50.30	Cross wash 15 lks. wide course N. E.
72.50	Cross wash 12 lks. wide course N. E.
80.00	Set an iron post 3 ft. long, 3 ins. diam., 24 ins. in the ground for cor. of secs. 19, 24, 25 and 30, marked on brass cap T1S in N. and 1914 in S. half; R10WS24 in N. E. R9WS19 in N. E. S30 in S. E. and S25 in S. W. quadrant; from which A paloverde 6 ins. diam., bears S. 40 E. 57 lks. dist., marked T1SR9WS30BT. No other bearings available. Dig pits 18 x 18 x 12 ins. in each sec. 5 $\frac{1}{2}$ ft. dist., and raise a mound of earth 4 ft. base 2 ft. high, W. of cor. Land, rolling and hilly. Soil, rocky; 4th. rate. No timber. Undergrowth, greasewood, paloverde and ironwood.

West boundary of Tp. 1 S. Rg. 9 W.

Chains.	
	North bet. secs. 19 and 24. Over level land, through dense brush.
40.00	Set an iron post 3 ft. long, 1 in. diam., 26 ins. in the ground for $\frac{1}{4}$ sec. cor., marked on brass cap $\frac{1}{4}$ S24 in W. and S19 in E. and 1914 in S. half; dig pits 18 x 18 x 12 ins. N. and S. of post 3 ft. dist., and raise a mound of earth $3\frac{1}{2}$ ft. base $1\frac{1}{2}$ ft. high, W. of cor.
80.00	Set an iron post 3 ft. long, 3 ins. diam., 24 ins. in the ground for cor. of secs. 13, 18, 19 and 24, marked on brass cap.
	T1S in N. and 1914 in S. half; R10WS13 in N. W. R9WS18 in N. E. S19 in S. E. and S24 in S. W. quadrant; dig pits 18 x 18 x 12 ins. in each sec. $5\frac{1}{2}$ ft. dist., and raise a mound of earth 4 ft. base 2 ft. high, W. of cor. Land, level. Soil, sandy mixed with rocks and gravel; 2nd. rate. No timber.
Note:	Undergrowth, greasewood, mesquite and paloverde. April 13: At this cor. I set off $8\frac{1}{2} 57\frac{1}{2}'$ N. on the decl. arc; and observe the sun on the meridian at noon; the resulting lat. is $33\ 20'$ N.
	North bet. secs. 13 and 18. Over level land, through dense brush.
26.30	Cross road bears N. E. and S. W.
40.00	Set an iron post 3 ft. long, 1 in. diam., 26 ins. in the ground for $\frac{1}{4}$ sec. cor., marked on brass cap $\frac{1}{4}$ S13 in W. S18 in E. and 1914 in S. half; dig pits 18 x 18 x 12 ins. N. and S. of post 3 ft. dist., and raise a mound of earth $3\frac{1}{2}$ ft. base $1\frac{1}{2}$ ft. high, W. of cor.
74.00	Cross wash 20 lks. wide course N. E.
74.20	Ascend S. E. slope covered with loose volcanic rock.
80.00	Set an iron post 3 ft. long, 3 ins. diam., 24 ins. in the ground for cor. of secs. 7, 12, 13 and 18, marked on brass cap
	T1S in N. and 1914 in S. half; R10WS12 in N. W. R9WS7 in N. E. S18 in S. E. and S13 in S. W. quadrant; and raise a mound of stone 2 ft. base $1\frac{1}{2}$ ft. high, W. of cor. Pits impracticable. Land, level and mountainous. Soil, sandy loam, dry, medium texture; 1st. rate., except N. 5.80 chs. which is rocky; 4th. rate.
	North bet. secs. 7 and 12. Ascend rocky S. E. slope.
9.25	Ridge bears N. E. and S. W. descend.
18.50	Over level land, through dense brush.
30.60	Cross road bears W. W. and S. E.
40.00	Set an iron post 3 ft. long, 1 in. diam., 26 ins. in the ground for $\frac{1}{4}$ sec. cor., marked on brass cap $\frac{1}{4}$ S12 in W. S7 in E. and 1914 in S. half; dig pits 18 x 18 x 12 ins. N. and S. of post 3 ft. dist., and raise a mound of earth $3\frac{1}{2}$ ft. base $1\frac{1}{2}$ ft. high, W. of cor.
67.50	Cross road bears E. and W.
80.00	Set an iron post 3 ft. long, 3 ins. diam., 24 ins. in the ground for cor. of secs. 1, 6, 7 and 12, marked on brass cap
	T1S in N. and 1914 in S. half; R10WS1 in N. W.

West boundary of Tp. 1 S. Rg. 9 W.

Chains.

R9WS6 in N. E.
 S7 in S. E. and
 S12 in S. W. quadrant; from which
 A mesquite 8 ins. diam., bears S. $13\frac{1}{2}$ W. 75
 lks. dist., marked T1SR10WS12BT
 A mesquite 8 ins. diam., bears S. $32\frac{1}{2}$ E. 115
 lks. dist., marked T1SR0WS7BT
 No other bearings available. Dig pits 18 x 18 x 12 ins.
 in each sec. $5\frac{1}{2}$ ft. dist., and raise a mound of earth 4
 ft. base 2 ft. high, W. of cor.
 Land, level.
 Soil, sandy loam, dry, medium texture; 1st. rate.
 No timber.
 Undergrowth, greasewood, mesquite.

40.00 North bet. secs. 1 and 6.
 Over level land, through dense brush.
 Set an iron post 3 ft. long, 1 in. diam., 26 ins. in the
 ground for $\frac{1}{4}$ sec. cor., marked on brass cap S1 in W.
 S6 in E. and 1914 in S. half; dig pits 18 x 18 x 12 ins.
 N. and S. of post 3 ft. dist., and raise a mound of earth
 $3\frac{1}{2}$ ft. base $1\frac{1}{2}$ ft. high, W. of cor.
 58.20 Cross wash 20 lks. wide course N. E.
 80.63 Intersect Gila and Salt River Base Line 9.94 chs. east of
 the standard cor. of Tps. 1 N. Rgs. 9 and 10 W. estab. by
 Jesse B. Wright, U.S. Surveyor, as described in Book "Ground
 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. 1 S., Rs. 9 and 10 W., marked on
 brass cap, T1N R10WS36 R9W S31 in N. and
 T1S 1914 in S. half; CC S. of center,
 S6 R9W in S. E. and
 S1 R10W in S. W. quadrant; dig pits, 30 x 24 x 12 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 S. of cor.
 Land, level.
 Soil, sandy loam, dry, medium texture; 1st. rate.
 No timber.
 Undergrowth, greasewood and mesquite.

April 13, 1914.

Boundaries of Tp. 1 S. Rg. 9 W.
 Latitudes, departures and closing errors.

Line designated.	True bearing.	Distance	Latitudes		Departures	
			N.	S.	E.	W.
North Boundary (Gila S. R. Base Line)	West	477.69				477.69
W. West boundary	South	480.63		480.63		
S. South boundary	East	478.16			478.16	
E. East boundary	North	480.90	480.90			
Convergency						.48
Totals			480.90	480.63	478.16	478.17
			480.63			478.16
Error in lat			.27		Error in dep.	.96

General Description.

This township is level and covered with dense brush.
 There is no water or timber in the township.

John P. Heise
 U. S. Surveyor

South boundary of Tp. 1 S. Rg. 10 W.

Chains.	
	1914: April 24 ^A At 7h. 00m. a.m., l.m.t., I set off 33° 17½' N. on the lat. arc; 12° 44' N. on the decl arc; and determine a meridian with the solar at the cor. of Tps. 1 and 2 S. Rgs: 9 and 10 W. hereinbefore described. Thence I run West bet. secs. 1 and 36, on a true line. Over choppy hilly land, through scattering brush.
4.00	Cross wash 20 lks. wide course N. E.
14.00	Cross wash 20 lks. wide course N. E.
29.50	Cross wash 40 lks. wide course N. E.
34.50	Cross wash 10 lks. wide course N. E.
40.00	Set an iron post 3 ft. long, 1 in. diam., 26 ins. in the ground for ¼ sec. cor., marked on brass cap ¼S36 in N. and S1 1914 in S. half; from which A paloverde 4 ins. diam., bears N. 59½ E 39 lks. dist., marked ¼S36BT. A paloverde 4 ins. diam., bears S. 77 W. 28 lks. dist., marked ¼S1BT.
61.00	Cross wash 20 lks. wide course N.
69.90	Cross wash 25 lks. wide course N.
80.00	Set an iron post 3 ft. long; 3 ins. diam., 24 ins. in the ground for cor. of secs. 1, 2, 35 and 36, marked on brass cap T1S in N. and T2S 1914 in S. and R10W in W. half; S35 in N. W. S36 in N. E. S1 in S. E. and S2 in S. W. quadrant; from which A paloverde 5 ins. diam., bears N. 9 W. 137 lks. dist., marked T1SR10WS35BT. An ironwood 10 ins. diam., bears N. 31½ E. 31 lks. dist., marked T1SR10WS36BT. A paloverde 4 ins. diam., bears S. 71½ E. 86 lks. dist., marked T2SR10WS1BT. An ironwood 7 ins. diam., bears S. 43½ W. 108 lks. dist., marked T2SR10WS2BT.
	Land, hilly. Soil, rocky; 4th. rate. No timber. Undergrowth, paloverde and ironwood, and greasewood.
	West bet. secs. 2 and 35. Over rolling land, through dense brush.
0.35	Cross wash 45 lks. wide course N. E.
17.00	Cross wash 50 lks. wide course N.
40.00	Set an iron post 3 ft. long, 1 in. diam., 26 ins. in the ground for ¼ sec. cor., marked on brass cap ¼S35 in N. and S2 1914 in S. half; from which An ironwood 6 ins. diam., bears N. 21¼ W. 73 lks. dist., marked ¼S35BT. A paloverde 6 ins. diam., bears S. 71 W. 142 lks. dist., marked ¼S2BT.
42.20	Cross wash 30 lks. wide course N. E.
52.90	Cross wash 30 lks. wide course N.
60.00	Cross wash 60 lks. wide course N. ascend rocky hill.
80.00	Top of hill and Set an iron post 3 ft. long, 3 ins. diam., 24 ins. in the ground for cor. of secs. 2, 3, 34 and 35, marked on brass cap T1S in N. T2S 1914 in S. and R10W in W. half; S34 in N. W. S35 in N. E. S2 in S. E. and S3 in S. W. quadrant; from which A paloverde 4 ins. diam., bears N. 45½ W. 18 lks. dist., marked T1SR10WS34BT.

South boundary of Tp. 1 S. Rg. 10 W.

Chains

A paloverde 4 ins. diam., bears N. $33\frac{3}{4}$ E. 79
lks. dist., marked T1SR10WS35BT.
A paloverde 5 ins. diam., bears S. 74 E. 123
lks. dist., marked T2SR10WS2BT.
A paloverde 6 ins. diam., bears S. $62\frac{1}{4}$ W. 50
lks. dist., marked T2SR10WS3BT.

Land, rolling.

Soil, rocky; 4th. rate.

No timber.

Undergrowth, greasewood, paloverde and ironwood.

West bet. secs. 3 and 34.

Over choppy hilly land, through dense brush, descend.

21.00 Bottom of hill, cross wash 20 lks. wide course N.

29.00 Cross wash 20 lks. wide course N.

37.50 Cross wash 25 lks. wide course N.

40.00 Set an iron post 3 ft. long, 1 in. diam., 26 ins. in the
ground for $\frac{1}{4}$ sec. cor., marked on brass cap $\frac{1}{4}$ S34 in N.
and S3 1914 in S. half; from which

A paloverde 6 ins. diam., bears N. 10 E. 81
lks. dist., marked $\frac{1}{4}$ S34BT.

A paloverde 7 ins. diam., bears S. 75 E. 58
lks. dist., marked $\frac{1}{4}$ S3BT.

54.95 Cross road bears N. E. and S. W.

62.30 Cross road bears N. and S.

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

T1S in N.

T2S 1914 in S. and

R10W in W. half;

S33 in N. W.

S34 in N. E.

S3 in S. E. and

S4 in S. W. quadrant; from which

A paloverde 10 ind. diam., bears N. $65\frac{1}{2}$ W. 178
lks. dist., marked T1SR10WS33BT.

A paloverde 7 ins. diam., bears S. 51 E. 82
lks. dist., marked T2SR10WS3BT,

No other bearings available. Dig pits 18 x 18 x 12 ins.
in each sec. $5\frac{1}{2}$ ft. dist., and raise a mound of earth 4
ft. base 2 ft. high, W. of cor.

Land, hilly.

Soil, rocky; 4th. rate.

No timber.

Undergrowth, greasewood, paloverde and ironwood.

Note: April 24: At this cor. I set off $12\sqrt{47}$ ' N. on the decl.
arc; and observe the sun on the meridian at noon; the
resulting lat. is $33\sqrt{17\frac{1}{2}}$ ' N.

West bet. secs. 4 and 33.

Over rolling land, through dense brush.

11.00 Cross wash 30 lks. wide course S. W.

40.00 Set an iron post 3 ft. long, 1 in. diam., 26 ins. in the
ground for $\frac{1}{4}$ sec. cor., marked on brass cap $\frac{1}{4}$ S33 in N.
and S4 1914 in S. half; dig pits 18 x 18 x 12 ins. E. and
W. of post 3 ft. dist., and raise a mound of earth $3\frac{1}{2}$ ft.
base $1\frac{1}{2}$ ft. high, N. of cor.

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

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

T1S in N.

T2S 1914 in S. and

R10W in W. half;

S32 in N. W.

S33 in N. E.

South boundary of Tp. 1 S. Rg. 10 W.

Chains.

- S4 in S. E. and
S5 in S. W. quadrant; dig pits 18 x 18 x 12 ins. in each
sec. $5\frac{1}{2}$ ft. dist., and raise a mound of earth 4 ft. base
2 ft. high, W. of cor.
Land, level and rolling.
Soil, 0.00 chs. to 56.90 chs. rocky; 4th. rate. 56.90 to
80.00 chs. sandy loam, dry, medium texture; 1st. rate.
No timber.
Undergrowth, greasewood and paloverde.
-
- West bet. secs. 5 and 32.
Over level land, through dense brush.
33.00 Cross wash 10 lks. wide course S. W. and over rolling
hilly land.
40.00 Set an iron post 3 ft. long, 1 in. diam., 26 ins. in the
ground for $\frac{1}{4}$ sec. cor., marked on brass cap $\frac{1}{4}$ S32 in N.
and S5 1914 in S. half; from which
A paloverde 5 ins. diam., bears N. $64\frac{1}{4}$ W. 72
lks. dist., marked $\frac{1}{4}$ S32BT.
An ironwood 4 ins. diam., bears S. $19\frac{3}{4}$ W. 41
lks. dist., marked $\frac{1}{4}$ S5BT.
53.00 Cross wash 25 lks. wide course S.
67.00 Ascend steep, rocky E. slope of mountain.
80.00 Set an iron post 3 ft. long, 3 ins. diam., 24 ins. in the
ground for cor. of secs. 5, 6, 31 and 32, marked on brass
cap
T1S in N.
T2S 1914 in S. and R10W in W. half;
S31 in N. W.
S32 in N. E.
S5 in S. E. and
S6 in S. W. quadrant; and raise a mound of stone 2 ft.
base $1\frac{1}{2}$ ft. high, W. of cor. Pits impracticable.
Land, level, hilly and mountainous.
Soil, 0.0 to 33.00 chs. sandy loam, dry, medium texture;
1st. rate; 33.00 to 80.00 chs. rocky; 4th. rate.
No timber.
Undergrowth, greasewood and paloverde.
-
- West bet. secs. 6 and 31.
Ascend steep rocky E. slope, through dense brush.
13.00 Top of high ridge bears N. W. and S. E. descend.
40.00 Set an iron post 3 ft. long, 1 in. diam., 26 ins. in the
ground for $\frac{1}{4}$ sec. cor., marked on brass cap $\frac{1}{4}$ S31 in N.
and S6 1914 in S. half; and raise a mound of stone 2 ft.
base $1\frac{1}{2}$ ft. high, N. of cor. Pits impracticable.
52.50 Bottom of mountain and over rolling land.
78.16 Set an iron post 3 ft. long, 3 ins. diam., 24 ins. in the
ground for cor. of Tps. 1 and 2 S. Rgs. 10 and 11 W.,
marked on brass cap
T1S in N.
R10W in E.
T2S 1914 in S. and
R11W in W. half;
S36 in N. W.
S31 in N. E.
S6 in S. E. and
S1 in S. W. quadrant; from which
A paloverde 6 ins. diam., bears S. $71\frac{1}{4}$ E. 86
lks. dist., marked ~~W~~S R10WS6BT.
No other bearings available. Raise a mound of stone 2 ft.
base $1\frac{1}{2}$ ft. high, S. of cor. Pits impracticable.
Land, mountainous and rolling.
Soil, rocky, 4th. rate.
No timber.
Undergrowth, greasewood and paloverde.

April 24, 1914.

West boundary of Tp. 1 S. Rg. 10 W.

Chains	1914:
	April 25 th At 7h. 00m. a.m., l.m.t., I set off 33° 17½' N. on the lat. arc; 13° 03½' N. on the decl. arc; and determine a meridian with the solar at the cor. of Tps. 1 and 2 S. Rgs. 10 and 11 W, hereinbefore described.
	Thence I run
	North bet. secs. 31 and 36, on a true line.
	Over rolling hilly land, through dense brush.
16.70	Cross wash 20 lks. wide course S. W.
35.00	Ascend steep rocky S. slope of mountain.
40.00	Set an iron post 3 ft. long, 1 in. diam., 26 ins. in the ground for ¼ sec. cor., marked on brass cap ¼S36 in W. S31 in E. and 1914 in S. half; and raise a mound of stone 2 ft. base 1½ ft. high, W. of cor. Pits impracticable.
61.50	Top of mountain bears N. W. and S. E. descend.
80.00	Set an iron post 3 ft. long, 3 ins. diam., 24 ins. in the ground for cor. of secs. 25, 30, 31 and 36, marked on brass cap
	T1S in N. and 1914 in S. half; R11W S25 in N. W. R10W S30 in N. E. S31 in S. E. and S36 in S. W. quadrant; and raise a mound of stone 2 ft. base 1½ ft. high, W. of cor. Pits impracticable. Land, hilly and mountainous. Soil, rocky; 4th. rate. No timber. Undergrowth, greasewood and paloverde.
	North bet. secs. 25 and 30.
	Descend through dense brush.
24.85	Cross wash 18 lks. wide course W. ascend.
38.20	Ridge bears N. W. and S. E. descend.
40.00	Set an iron post 3 ft. long, 1 in. diam., 26 ins. in the ground for ¼ sec. cor., marked on brass cap ¼S25 in W. S30 in E. and 1914 in S. half; and raise a mound of stone 2 ft. base 1½ ft. high, W. of cor. Pits impracticable.
47.50	Bottom of hill and over rolling land.
80.00	In wide draw, drains SW, 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, marked on brass cap, T1S in N. and 1914 in S. half; R11W S24 in N. W. R10W S19 in N. E. S30 in S. E. and S25 in S. W. quadrant; from which A paloverde 4 ins. diam., bears N. 42° E. 63 lks. dist., marked T1SR10WS19BT. A paloverde 6 ins. diam., bears S. 3° E. 67 lks. dist., marked T1SR10WS30BT. No other bearings available. Dig pits 18 x 18 x 12 ins. in each sec. 5½ ft. dist., and raise a mound of earth 4 ft. base 1½ ft. high, W. of cor. Land, mountainous and rolling. Soil, 0.00 chs. to 47.50 chs. rocky; 4th. rate.; 47.50 to 80.00 chs. sandy loam, mixed with gravel, dry, coarse texture; 1st. rate. No timber. Undergrowth, greasewood and paloverde.
	North bet. secs. 19 and 24.
	Over rolling land, draining SW, through dense brush.
40.00	Set an iron post 3 ft. long, 1 in. diam., 26 ins. in the ground for ¼ sec. cor., marked on brass cap ¼S24 in W. S19 in E. and 1914 in S. half; dig pits 18 x 18 x 12 ins.

West boundary of Tp. 1 S. Rg. 10 W.

Chains.

71.30 N. and S. of post 3 ft. dist., and raise a mound of earth
80.00 $3\frac{1}{2}$ ft. base $1\frac{1}{2}$ ft. high, W. of cor.
Cross wash 60 lks. wide course S. W.
Set an iron post 3 ft. long, 3 ins. diam., 24 ins. in the
ground for cor. of secs. 13, 18, 19 and 24, marked on
brass cap
T1S in N. and
1914 in S. half;
R11WS13 in N. W.
R10WS18 in N. E.
S19 in S. E. and
S24 in S. W. quadrant; and raise a mound of stone 2 ft.
base $1\frac{1}{2}$ ft. high, W. of cor. Pits impracticable.
Land, rolling.
Soil, 0.00 to 10.00 chs. sandy loam, dry, medium texture;
1st. rate. 10.00 to 80.00 chs. rocky; 3rd. rate.
No timber.
Undergrowth, greasewood, mesquite and paloverde.
Note: April 25: At this cor. I set off 13° 07' N. on the decl.
arc; and observe the sun on the meridian at noon; the
resulting lat. is 33° 20' N.

32.25 North bet. secs. 13 and 18.
40.00 Over rolling hilly land, through dense brush.
Cross dim road bears N. W. and S. E.
Set an iron post 3 ft. long, 1 in. diam., 26 ins. in the
ground for $\frac{1}{4}$ sec. cor., marked on brass cap $\frac{1}{4}$ S13 in W.
S18 in E. and 1914 in S. half; dig pits 18 x 18 x 12 ins.
N. and S. of post 3 ft. dist., and raise a mound of earth
 $3\frac{1}{2}$ ft. base $1\frac{1}{2}$ ft. high, W. of cor.
71.50 Cross wash 20 lks. wide course S. W.
80.00 Set an iron post 3 ft. long, 3 ins. diam., 24 ins. in the
ground for cor. of secs. 7, 12, 13 and 18, marked on brass
cap
T1S in N. and
1914 in S. half;
R11WS12 in N. W.
R10WS7 in N. E.
S18 in S. E. and
S13 in S. W. quadrant; from which
A paloverde 7 ins. diam., bears S. $2\frac{3}{4}$ W. 189
lks. dist., marked T1SR11WS13BT.
No other bearings available. Raise a mound of stone 2 ft.
base $1\frac{1}{2}$ ft. high, W. of cor. Pits impracticable.
Land, rolling hills.
Soil, rocky; 4th. rate.
No timber.
Undergrowth, greasewood and paloverde.

34.85 North bet. secs. 7 and 12.
40.00 Over rolling hilly land, through dense brush.
Cross wash 15 lks. wide course S. W.
Set an iron post 3 ft. long, 1 in. diam., 26 ins. in the
ground for $\frac{1}{4}$ sec. cor., marked on brass cap $\frac{1}{4}$ S12 in W.
S7 in E. and 1914 in S. half; from which
A paloverde 5 ins. diam., bears N. $8\frac{3}{4}$ W. 53 lks.
dist., marked $\frac{1}{4}$ S12BT.
A paloverde 5 ins. diam., bears N. $10\frac{3}{4}$ E. 176 lks.
dist., marked $\frac{1}{4}$ S7BT.
42.00 Cross wash 10 lks. wide course S. W.
80.00 Set an iron post 3 ft. long, 3 ins. diam., 24 ins. in the
ground for cor. of secs. 1, 6, 7 and 12, marked on brass
cap
T1S in N. and
1914 in S. half;
R11W S1 in N. W.
R10W S6 in N. E.

West boundary of Tp. 1 S. Rg. 10 W.

Chains

S7 in S. E. and
S12 in S. W. quadrant; and raise a mound of stone 2 ft. a
base 1½ ft. high, W. of cor. Pits impracticable.
Land, rolling hilly.
Soil, rocky; 4th. rate.
No timber.
Undergrowth, paloverde, greasewood, ironwood, mesquite.

North bet. secs. 1 and 6.
Over rolling hilly land, through dense brush.
4.10 Cross wash 40 lks. wide course S. W.
40.00 Set an iron post 3 ft. long, 1 in. diam., 26 ins. in the
ground for ¼ sec. cor., marked on brass cap ¼ S1 in W. and
S6 in E. and 1914 in S. half; and raise a mound of stone
2 ft. base 1½ ft. high, W. of cor. Pits impracticable.
42.60 Ascend steep rocky S. slope of mountain.
72.40 Top mountain bears E. and W. descend.
80.52 Intersect Gila and Salt River Base Line 12.53 chs. east of
the standard cor. of Tps. 1 N. Rgs. 10 and 11 W. estab. by
Jesse B. Wright, U.S. Surveyor, as described in Book "C" At pt.
of intersection, Set an iron post 3 ft. long, 3 ins. in diam.,
24 ins. in the ground for closing cor. of Ts. 1 S., Rs. 10 & 11 W.,
marked on brass cap, C C S. of center,
T1N R1W S36 R10W S31 in N. and
T1S 1914 in S. half;
S6 R10W in S. E. and
S1 R11W in S. W. quadrant; and raise a mound of stone
2 ft. base 1½ ft. high, S. of cor. Pits impracticable.
Land, rolling and mountainous.
Soil, rocky; 4th. rate.
No timber.
Undergrowth, greasewood, paloverde, ironwood, mesquite.

April 25, 1914.

Boundaries of Tp. 1 S. Rg. 10 W.
Latitudes, departures and closing errors.

Line designated	True bearing	Distance	Latitudes		Departures	
			N.	S.	E.	W.
North boundary (G. & S. R. Base Line)	West.	477.41				477.41
West Boundary	South.	480.52		480.52		
South Boundary	East.	478.16			478.16	
East Boundary	North	480.63	480.63			
Concregency.						48
Totals.			480.63	480.52	478.16	477.89
			480.52		477.89	
Error in Lat.			0.11		0.27	Error in Dep.

General Description.

This township is rolling and mountainous. There is no water or timber in the township.

John P. Hesse
U. S. Surveyor

West boundary of Tp. 2 N. Rg. 9 W.

Chains.	1914:
	<p>May 2; At 9h. 00m. a.m., l.m.t., I set off 33° 28' N. on the lat. arc; 15° 16½' N. on the decl. arc; and determine a meridian with the solar at the cor. of Tps. 1 and 2 N. Rgs. 9 and 10 W. set by Jesse B. Wright, U. S. Surveyor, as described in Book "A."</p> <p>Thence I run</p> <p>North bet. secs. 31 and 36, on a true line. Over level land, through dense brush.</p>
40.00	<p>Set an iron post 3 ft. long, 1 in. diam., 26 ins. in the ground for ¼ sec. cor., marked on brass cap ¼S36 in W. S31 in E. and 1914 in S. half; dig pits 18 x 18 x 12 ins. N. and S. of post 3 ft. dist., and raise a mound of earth 3½ ft. base 1½ ft. high, W. of cor.</p>
80.00	<p>Set an iron post 3 ft. long, 3 ins. diam., 24 ins. in the ground for cor. of secs. 25, 30, 31 and 36, marked on brass cap</p> <p>T2N in N. and 1914 in S. half; R10W S25 in N. W. R9W S30 in N. E. S31 in S. E. and S36 in S. W. quadrant; from which</p> <p>A mesquite 17 ins. diam., bears S. 24½ W. 327 lks. dist., marked T2NR10WS36BT</p> <p>No other bearings available. Dig pits 18 x 18 x 12 ins. in each sec. 5½ ft. dist., and raise a mound of earth 4 ft. base 2 ft. high, W. of cor. Land, level. Soil, rich sandy loam, dry, fine texture; 1st. rate. No timber. Undergrowth, greasewood.</p>
	<p>North bet. secs. 25 and 30. Over level land, through dense brush.</p>
40.00	<p>Set an iron post 3 ft. long, 1 in. diam., 26 ins. in the ground for ¼ sec. cor., marked on brass cap ¼S25 in W. S30 in E. and 1914 in S. half; dig pits 18 x 18 x 12 ins. N. and S. of post 3 ft. dist., and raise a mound of earth 3½ ft. base 1½ ft. high, W. of cor.</p>
68.40	<p>Cross road bears N. W. and S. E.</p>
80.00	<p>Set an iron post 3 ft. long, 3 ins. diam., 24 ins. in the ground for cor. of secs. 19, 24, 25, and 30, marked on brass cap</p> <p>T2N in N. and 1914 in S. half; R10W S24 in N. W. R9W S19 in N. E. S30 in S. E. and S25 in S. W. quadrant; dig pits 18 x 18 x 12 ins. in each sec. 5½ ft. dist., and raise a mound of earth 4 ft. base 2 ft. high W. of cor. Land, level. Soil, rich sandy loam, dry, fine texture; 1st. rate. No timber. Undergrowth, greasewood.</p>
	<p>North bet. secs. 19 and 24. Over level land, through dense brush.</p>
40.00	<p>Set an iron post 3 ft. long, 1 in. diam., 26 ins. in the ground for ¼ sec. cor., marked on brass cap ¼S24 in W. S19 in E. and 1914 in S. half; dig pits 18 x 18 x 12 ins. N. and S. of post 3 ft. dist., and raise a mound of earth 3½ ft. base 1½ ft. high, W. of cor.</p>
80.00	<p>Set an iron post 3 ft. long, 3 ins. diam., 24 ins. in the ground for cor. of secs. 18, 19 and 24, marked on brass cap</p>

West boundary of Tp. 2 N. Rg. 9 W.

Chains

T2N in N. and
1914 in S. half;
R10W S13 in N. W.
R9W S18 in N. E.
S19 in S. E. and
S24 in S. W. quadrant; dig pits 18 x 18 x 12 ins. in
each sec. $5\frac{1}{2}$ ft. dist., and raise a mound of earth 4 ft.
base 2 ft. high, W. of cor.
Land, level.
Soil, Rich sandy loam, dry, fine texture; 1st. rate.
No timber.
Undergrowth, greasewood.

Note: May 2: At this cor. I set off 15 $18\frac{1}{2}$ ' N. on the decl.
arc; and observe the sun on the meridian at noon; the
resulting lat. is 33 30' N.

North bet. secs. 13 and 18.

Over level land, through dense brush.

40.00 Set an iron post 3 ft. long, 1 in. diam., 26 ins. in the
ground for $\frac{1}{4}$ sec. cor., marked on brass cap $\frac{1}{4}$ S13 in W.
S18 in E. and 1914 in S. half; dig pits 18 x 18 x 12 ins.
N. and S. of post 3 ft. dist., and raise a mound of earth
 $3\frac{1}{2}$ ft. base $1\frac{1}{2}$ ft. high, W. of cor.

80.00 Set an iron post 3 ft. long, 3 ins. diam., 24 ins. in the
ground for cor. of secs. 7, 12, 13 and 18, marked on
brass cap

T2N in N. and
1914 in S. half;
R10W S12 in N. W.
R9W S7 in N. E.
S18 in S. E. and
S13 in S. W. quadrant; dig pits 18 x 18 x 12 ins. in
each sec. $5\frac{1}{2}$ ft. dist., and raise a mound of earth 4 ft.
base 2 ft. high, W. of cor.
Land, level.
Soil, rich sandy loam, fine texture, dry; 1st. rate.
No timber.
Undergrowth, greasewood.

North bet. secs. 7 and 12.

Over level land, through dense brush.

40.00 Set an iron post 3 ft. long, 1 in. diam., 26 ins. in the
ground for $\frac{1}{4}$ sec. cor., marked on brass cap $\frac{1}{4}$ S12 in W.
S7 in E. and 1914 in S. half; dig pits 18 x 18 x 12 ins.
N. and S. of post 3 ft. dist., and raise a mound of earth
 $3\frac{1}{2}$ ft. base $1\frac{1}{2}$ ft. high, W. of cor.

80.00 Set an iron post 3 ft. long, 3 ins. diam., 24 ins. in the
ground for cor. of secs. 1, 6, 7 and 12, marked on brass
cap

T2N in N. and
1914 in S. half;
R10W S1 in N. W.
R9W S6 in N. E.
S7 in S. E. and
S12 in S. W. quadrant; dig pits 18 x 18 x 12 ins. in
each sec. $5\frac{1}{2}$ ft. dist., and raise a mound of earth 4 ft.
base 2 ft. high, W. of cor.
Land, level.
Soil, rich sandy loam, fine texture, dry; 1st. rate.
No timber.
Undergrowth, greasewood.

North bet. secs. 1 and 6.

Over level land, through dense brush.

West boundary of Tp. 2 N. Rg. 9 W.

Chains

40.00

Set an iron post 3 ft. long, 1 in. diam., 26 ins. in the ground for $\frac{1}{4}$ sec. cor., marked on brass cap $\frac{1}{4}$ S1 in W. S6 in E. and 1914 in S. half; dig pits 18 x 18 x 12 ins. N. and S. of post 3 ft. dist., and raise a mound of earth $3\frac{1}{2}$ ft. base $1\frac{1}{2}$ ft. high, W. of cor.

80.00

Set an iron post 3 ft. long, 3 ins. diam., 24 ins. in the ground for cor. of Tps. 2 and 3 N. Rgs. 9 and 10 W.

marked on brass cap

T3N in N.

R9W in E.

T2N 1914 in S. and

R10W in W. half;

S36 in N. W.

S31 in N. E.

S6 in S. E. and

S1 in S. W. quadrant; dig pits 24 x 24 x 12 ins. on each line, N., 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, S. of cor.

Land, level.

Soil, rich sandy loam, fine texture, dry; 1st. rate.

No timber.

Undergrowth, greasewood.

May 2, 1914.

East boundary of Tp. 4 N. Rg. 11 W.

Chains

- 1914:
 May 19th At 7h. 00m. a.m., l.m.t., I set off 33°/38' N. on the lat. arc; 19² 41' N. on the decl. arc; and determine a meridian with the solar at the cor. of Tps. 3 and 4 N. Rgs. 10 and 11 W. recently established by Jesse B. Wright, U. S. Surveyor, as described in Book "A."
- Thence I run
 North bet. secs. 31 and 36, on a true line.
 Over level land, through dense brush.
- 40.00 Set an iron post 3 ft. long, 1 in. diam., 26 ins. in the ground for $\frac{1}{4}$ sec. cor., marked on brass cap $\frac{1}{4}$ S36 in W. S31 in E. and 1914 in S. half; dig pits 18 x 18 x 12 ins. N. and S. of post 3 ft. dist., and raise a mound of earth $3\frac{1}{2}$ ft. base $1\frac{1}{2}$ ft. high, W. of cor.
- 80.00 Set an iron post 3 ft. long, 3 ins. diam., 24 ins. in the ground for cor. of secs. 25, 30, 31 and 36, marked on Brass cap
 T4N in N. and
 1914 in S. half;
 R11WS25 in N. W.
 R10WS30 in N. E.
 S31 in S. E. and
 S36 in S. W. quadrant; dig pits 18 x 18 x 12 ins. in each sec. $5\frac{1}{2}$ ft. dist., and raise a mound of earth 4 ft. base 2 ft. high, W. of cor.
 Land, level.
 Soil, sandy loam, dry, medium texture; 1st. rate.
 No timber.
 Undergrowth, greasewood.
-
- North bet. secs. 25 and 30.
 Over level land, through dense brush.
- 40.00 Set an iron post 3 ft. long, 1 in. diam., 26 ins. in the ground for $\frac{1}{4}$ sec. cor., marked on brass cap $\frac{1}{4}$ S25 in W. S30 in E. and 1914 in S. half; from which
 An ironwood 12 ins. diam., bears N. 29° W. 306 lks. dist., marked $\frac{1}{4}$ S25BT.
 An ironwood 8 ins. diam., bears N. 69 $\frac{3}{4}$ ° E. 214 lks. dist., marked $\frac{1}{4}$ S30BT.
- 49.10 Cross wash 8 lks. wide course S. W.
 69.40 Cross wash 15 lks. wide course S. W.
- 80.00 Set an iron post 3 ft. long, 3 ins. diam., 24 ins. in the ground for cor. of secs. 19, 24, 25 and 30, marked on brass cap
 T4N in N. and
 1914 in S. half;
 R11WS24 in N. W.
 R10WS19 in N. E.
 S30 in S. E. and
 S25 in S. W. quadrant; from which
 A paloverde 6 ins. diam., bears N. 67 $\frac{1}{2}$ ° E. 226 lks. dist., marked T4NR10WS19BT.
 A paloverde 7 ins. diam., bears S. 82 $\frac{1}{2}$ ° E. 300 lks. dist., marked T4NR10WS30BT.
- No other bearings available. Dig pits 18 x 18 x 12 ins. in each sec. $5\frac{1}{2}$ ft. dist., and raise a mound of earth 4 ft. base 2 ft. high, W. of cor.
 Land, level.
 Soil, sandy loam, dry, medium texture; 1st. rate.
 No timber.
 Undergrowth, greasewood, ironwood and paloverde.
-
- North bet. secs. 19 and 24.
 Over level land, through dense brush.
- 40.00 Set an iron post 3 ft. long, 1 in. diam., 26 ins. in the ground for $\frac{1}{4}$ sec. cor., marked on brass cap $\frac{1}{4}$ S24 in W. S19 in E. and 1914 in S. half; from which

East boundary of Tp. 4 N. Rg. 11 W.

Chains.

A paloverde 18 ins. diam., bears N. 45° W. 337 lks. dist., marked $\frac{1}{4}$ S24BT.
 An ironwood 10 ins. diam., bears S. 83 $\frac{3}{4}$ ° E. 282 lks. dist., marked $\frac{1}{4}$ S19BT.
 69.80 Cross wash 12 lks. wide course S. W.
 80.00 Set an iron post 3 ft. long, 3 ins. diam., 24 ins. in the ground for cor. of secs. 13, 18, 19 and 24, marked on brass cap
 T4N in N. and
 1914 in S. half;
 R11WS13 in N. W.
 R10WS18 in N. E.
 S19 in S. E. and
 S24 in S. W. quadrant; from which
 A paloverde 6 ins. diam., bears S. 10 $\frac{1}{4}$ ° W. 332 lks. dist., marked T4NR11WS24BT.
 No other bearings available. Raise a mound of stone 2 ft. base $\frac{1}{2}$ ft. high, W. of cor. Pits impracticable.
 From this cor. a stake with pits 18 x 18 x 3 ins. N. and S 3 ft. dist., with a mound of earth and stone 2 ft. base $\frac{1}{2}$ ft. high, W. of stake in which is a can containing a paper inscribed T4N 3 Maricopa Yuma. bears S. 21° 57' E 5.42 chs. dist.
 Land, level.
 Soil, sandy loam, mixed with rocks and gravel; 2nd. rate.
 No timber.
 Undergrowth, greasewood, ironwood and paloverde.
 Note: May 19; At this cor. I set off 19° 43' N. on the decl. arc; and observe the sun on the meridian at noon; the resulting lat. is 33° 41' N.

North bet. secs. 13 and 18.
 Over level land, through dense brush.
 17.10 Cross wash 50 lks. wide course S. W.
 40.00 Set an iron post 3 ft. long, 1 in. diam., 26 ins. in the ground for $\frac{1}{4}$ sec. cor., marked on brass cap $\frac{1}{4}$ S13 in W. S18 in E. and 1914 in S. half; from which
 An ironwood 5 ins. diam., bears S. 1 $\frac{3}{4}$ ° E. 40 lks. dist., marked $\frac{1}{4}$ S18BT.
 An ironwood 6 ins. diam., bears S. 36 $\frac{1}{2}$ ° W. 20 lks. dist., marked $\frac{1}{4}$ S13BT.
 80.00 Set an iron post 3 ft. long, 3 ins. diam., 24 ins. in the ground for cor. of secs. 7, 12, 13 and 18, marked on brass cap
 T4N in N. and
 1914 in S. half;
 R11WS12 in N. W.
 R10WS7 in N. E.
 S18 in S. E. and
 S13 in S. W. quadrant; from which
 An ironwood 22 ins. diam., bears N. 8 $\frac{1}{4}$ ° W. 58 lks. dist., marked T4NR11WS12BT.
 An ironwood 7 ins. diam., bears N. 26 $\frac{1}{4}$ ° E. 216 lks. dist., marked T4NR10WS7BT.
 An ironwood 14 ins. diam., bears S. 3 $\frac{1}{2}$ ° E. 155 lks. dist., marked T4NR10WS18BT.
 An ironwood 4 ins. diam., bears S. 39 $\frac{1}{4}$ ° W. 55 lks. dist., marked T4NR11WS13BT.
 From this cor. a stake with pits 18 x 18 x 3 ins. N. and S 3 ft. dist., with a mound of earth and stone 2 ft. base $\frac{1}{2}$ ft. high, W. of stake in which is a can containing a paper inscribed T4N 4 Maricopa Yuma bears S. 22° 37' E 5.50 chs. dist.
 Land, level.
 Soil, sandy, mixed with gravel and rocks; 3rd. rate.
 No timber.
 Undergrowth, greasewood, ironwood and paloverde.

East boundary of Tp. 4 N. Rg. 11 W.

Chains.	
40.00	<p>North bet. secs. 7 and 12. Over level land, through dense brush. Set an iron post 3 ft. long, 1 in. diam., 26 ins. in the ground for $\frac{1}{4}$ sec. cor., marked on brass cap $\frac{1}{4}$S12 in W. S7 in E. and 1914 in S. half; from which</p> <p style="padding-left: 40px;">An ironwood 4 ins. diam., bears N. 80° W. 45 lks. dist., marked $\frac{1}{4}$S12BT. An ironwood 5 ins. diam., bears N. 65° E. 6 lks. dist., marked $\frac{1}{4}$S7BT.</p>
43.80	Cross road bears N. E. and S. W.
48.70	Cross wash 75 lks. wide course S. W.
79.50	<p>Set an iron post 3 ft. long, 3 ins. diam., 24 ins. in the ground for witness cor. of secs. 1, 6, 7 and 12, marked on brass cap to cor.</p> <p style="padding-left: 40px;">WC S. of center; T4N in N. and 1914 in S. half; R11WS1 in N. W. R10WS6 in N. E. S7 in S. E. and S12 in S. W. quadrant; from which</p> <p style="padding-left: 80px;">An ironwood 4 ins. diam., bears N. $25\frac{3}{4}^{\circ}$ W. 116 lks. dist., marked WCT4NR11WS1BT. A paloverde 5 ins. diam., bears N. $33\frac{3}{4}^{\circ}$ E. 58 lks. dist., marked WCT4NR10WS6BT. A paloverde 4 ins. diam., bears S. $57\frac{1}{2}^{\circ}$ E. 151 lks. dist., marked WCT4NR10WS7BT. A paloverde 7 ins. diam., bears S. $58\frac{1}{2}^{\circ}$ W. 58 lks. dist., marked WCT4NR11WS12BT.</p> <p>From this cor. a stake with pits 18 x 18 x 3 ins. N. and S. 3 ft. dist., with a mound of earth and stone 2 ft. base $1\frac{1}{2}$ ft. high, W. of stake in which is a can containing a paper inscribed T4N 5 Maricopa Yuma bears S. $25^{\circ} 59'$ E. 5.06 chs. dist.</p>
80.00	<p>Point for cor. of secs. 1, 6, 7 and 12 falls in wash 15 lks. wide course S. W. Land, level. Soil, sandy mixed with gravel and rocks; 3rd. rate. No timber. Undergrowth, greasewood, ironwood and paloverde.</p>
	<p style="text-align: center;">—————</p>
17.90	North bet. secs. 1 and 6, from true point for cor.
50.00	<p>Over rolling land, through dense brush. Cross wash 20 lks. wide course W. Set an iron post 3 ft. long, 1 in. diam., 26 ins. in the ground for $\frac{1}{4}$ sec. cor., marked on brass cap $\frac{1}{4}$S1 in W. S6 in E. and 1914 in S. half; from which</p> <p style="padding-left: 40px;">An ironwood 6 ins. diam., bears N. $63\frac{3}{4}^{\circ}$ W. 101 lks. dist., marked $\frac{1}{4}$S1BT. An ironwood 4 ins. diam., bears N. $62\frac{5}{4}^{\circ}$ E. 89 lks. dist., marked $\frac{1}{4}$S6BT.</p>
74.93	<p>Intersect 1st. Standard Parallel N. 11.67 chs. W. of the standard cor. of secs. 31 and 32, T. 5 N. R. 10 W. which is a stone marked and witnessed as described by the surveyor general. At point of intersection I Set an iron post 3 ft. long, 3 ins. diam., 24 ins. in the ground for closing cor. of Tps. 4 N. Rgs. 10 and 11 W. marked on brass cap</p> <p style="padding-left: 40px;">CC S. of center; T5N R110WS631NS032001 in N. and T4N 1914 in S. half; S6R10W in S. E. and S1R11W in S. W. quadrant; from which</p> <p style="padding-left: 80px;">An ironwood 4 ins. diam., bears S. $56\frac{1}{4}^{\circ}$ E. 141 lks. dist., marked CCT4NR10WS6BT. An ironwood 4 ins. diam., bears S. $19\frac{1}{2}^{\circ}$ W. 31 lks. dist., marked CCT4NR11WS1BT.</p> <p>From this cor. a post 4 ins. sq. 4 ft. above ground firmly set, marked VN on N., IVN on S. YUMA on W. and MARICOPA on E. bears E. 2.07 chs. dist.,</p>

40.00

East boundary of Tp. 4 N. Rg. 11 W.

Chains

Land, rolling.
Soil, rocky; 4th. rate.
No timber.
Undergrowth, greasewood, ironwood and paloverde.

May 19, 1914.

West boundary of Tp. 4 N. Rg. 11 W.

Chains	1914.
	<p>May 20^A At 7h. 00m., a.m., l.m.t., I set off 33° 38' N. on the lat. arc; 19° 54' N. on the decl. arc; and determine a meridian with the solar at the cor. of Tps. 3 and 4 N. Rgs. 11 and 12 W., recently established by Jesse B. Wright U. S. Surveyor, as described in Book "A."</p> <p>Thence I run</p> <p>North bet. secs. 31 and 36, on a true line. Over level land, through dense brush.</p>
40.00	<p>Set an iron post 3 ft. long, 1 in. diam., 26 ins. in the ground for $\frac{1}{4}$ sec. cor., marked on brass cap $\frac{1}{4}$S36 in W. S31 in E. and 1914 in S. half; dig pits 18 x 18 x 12 ins. N. and S. of post 3 ft. dist., and raise a mound of earth $3\frac{1}{2}$ ft. base $1\frac{1}{2}$ ft. high, W. of cor.</p>
80.00	<p>Set an iron post 3 ft. long, 3 ins. diam., 24 ins. in the ground for cor. of secs. 25, 30, 31 and 36, marked on brass cap</p> <p>T4N in N. and 1914 in S. half; R12WS25 in N. W. R11WS30 in N. E. S31 in S. E. and S36 in S. W. quadrant; dig pits 18 x 18 x 12 ins. in each sec. $5\frac{1}{2}$ ft. dist., and raise a mound of earth 4 ft. base 2 ft. high, W. of cor.</p> <p>Land, level. Soil, sandy loam, dry, medium texture; 1st. rate. No timber. Undergrowth, greasewood.</p>
	<p>North bet. secs. 25 and 30. Over level land, through dense brush.</p>
40.00	<p>Set an iron post 3 ft. long, 1 in. diam., 26 ins. in the ground for $\frac{1}{4}$ sec. cor., marked on brass cap $\frac{1}{4}$S25 in W. S30 in E. and 1914 in S. half; dig pits 18 x 18 x 12 ins. N. and S. of post 3 ft. dist., and raise a mound of earth $3\frac{1}{2}$ ft. base $1\frac{1}{2}$ ft. high, W. of cor.</p>
70.90	<p>Cross road bears N. W. and S. E.</p>
80.00	<p>Set an iron post 3 ft. long, 3 ins. diam., 24 ins. in the ground for cor. of secs. 19, 24, 25 and 30, marked on brass cap</p> <p>T4N in N. and 1914 in S. half; R12WS24 in N. W. R11WS19 in N. E. S30 in S. E. and S25 in S. W. quadrant; dig pits 18 x 18 x 12 ins. in each sec. $5\frac{1}{2}$ ft. dist., and raise a mound of earth 4 ft. base 2 ft. high, W. of cor.</p> <p>Land, level. Soil, sandy loam, dry, medium texture; 1st. rate. No timber. Undergrowth, greasewood and paloverde.</p>
	<p>North bet. secs. 19 and 24. Over level land, through dense brush.</p>
40.00	<p>Set an iron post 3 ft. long, 1 in. diam., 26 ins. in the ground for $\frac{1}{4}$ sec. cor., marked on brass cap $\frac{1}{4}$S24 in W. S19 in E. and 1914 in S. half; dig pits 18 x 18 x 12 ins. N. and S. of post 3 ft. dist., and raise a mound of earth $3\frac{1}{2}$ ft. base $1\frac{1}{2}$ ft. high, W. of cor.</p>
66.10	<p>Cross road bears N. W. and S. E., Harrisburg to Phoenix.</p>
80.00	<p>Set an iron post 3 ft. long, 3 ins. diam., 24 ins. in the ground for cor. of secs. 13, 18, 19 and 24, marked on brass cap</p> <p>T4N in N. and 1914 in S. half;</p>

West boundary of Tp. 4 N. Rg. 11 W.

Chains.

R12WS13 in N..W.
 R11WS18 in N. E.
 S19 in S..W. and
 S24 in S. W. quadrant; from which
 A paloverde 18 ins. diam., bears N..74½° W. 169
 lks. dist., marked T4NR12WS13BT.
 A paloverde 20 ins. diam., bears S. 81½° W. 160
 lks. dist., marked T4NR12WS24BT.
 No other bearings available.. Dig pits 18 x 18 x 12 ins. in
 each sec. 5½ ft. dist., and raise a mound of earth 4 ft.
 base 2 ft. high, W. of cor.
 Land, level.
 Soil, sandy loam, dry, medium texture; 1st. rate.
 No timber.
 Undergrowth, greasewood, paloverde..

North bet. secs. 13 and 18.
 Over level land, through dense brush.
 9.10. Cross wash 30 lks. wide course S. W.
 40.00 Set an iron post 3 ft. long, 1 in. diam., 26 ins. in the
 ground for ¼ sec. cor., marked on brass cap ¼S13 in W.
 S18 in E. and 1914 in S. half; from which
 An ironwood 4 ins. diam., bears N. 6° E. 38
 lks. dist., marked ¼S18BT.
 A paloverde 10 ins. diam., bears S. 30° W. 34
 lks. dist., marked ¼S13BT.
 46.50 Cross wash 6 lks. wide course S. W.
 68.10 Cross road bears E. and W.
 80.00 Set an iron post 3 ft. long, 3 ins. diam., 24 ins. in the
 ground for cor. of secs. 7, 12, 13. and 18; marked on brass
 cap
 T4N in N. and
 1914 in S. half;
 R12WS12 in N. W.
 R11WS7 in N. E.
 S18 in S. E. and
 S13 in S. W. quadrant; from which
 A paloverde 5 ins. diam., bears N. 11° E. 62.
 lks. dist., marked T4NR11WS7BT.
 No other bearings available. Dig pits 18 x 18 x 12 ins. in
 each sec. 5½ ft. dist., and raise a mound of earth 4 ft.
 base 2 ft. high, W. of cor.
 Land, level.
 Soil, S. 9.00 chs. sandy loam, dry, medium texture; 1st.
 rate; N. 71.00 chs. sandy mixed with rocks and gravel;
 3rd. rate.
 No timber.
 Undergrowth, greasewood, ironwood and paloverde.
 Note: May 20: At this cor. I set off 19° 56' N. on the decl.
 arc; and observe the sun on the meridian at noon; the
 resulting lat. is 33° 41½' N.

North bet. secs. 7 and 12.
 Over level land, through dense brush.
 40.00 Set an iron post 3 ft. long, 1 in. diam., 26 ins. in the
 ground for ¼ sec. cor., marked on brass cap ¼S12 in W.
 S7 in E. and 1914 in S. half; dig pits 18 x 18 x 12 ins.
 N. and S. of post 3 ft. dist., and raise a mound of earth
 3½ ft. base 1½ ft. high, W. of cor.
 80.00 Set an iron post 3 ft. long, 3 ins. diam., 24 ins. in the
 ground for cor. of secs. 1, 6, 7 and 12, marked on brass
 cap
 T4N in N. and
 1914 in S. half;
 R12WS1 in N. W.
 R11WS6 in N. E.

West boundary of Tp. 4 N. Rg. 11 W.

Chains.

S7 in S. E. and
 S12 in S. W. quadrant; dig pits 18 x 18 x 12 ins. in
 each sec. $5\frac{1}{2}$ ft. dist., and raise a mound of earth 4 ft.
 base 2 ft. high, W. of cor.
 Land, level.
 Soil, sandy, mixed with rocks and gravel; 3rd. rate.
 No timber.
 Undergrowth, greasewood, paloverde and ironwood.

North bet. secs. 1 and 6.
 Over level land, through dense brush.
 26.25 Cross wash 75 lks. wide course S. W.
 40.00 Set an iron post 3 ft. long, 1 in. diam., 26 ins. in the
 ground for $\frac{1}{4}$ sec. cor., marked on brass cap $\frac{1}{4}$ S1 in W.
 S6 in E. and 1914 in S. half; from which
 A paloverde 6 ins. diam., bears N. 12° E. 221
 lks. dist., marked $\frac{1}{4}$ S6BT.
 A paloverde 6 ins. diam., bears S. $61\frac{5}{8}^\circ$ W. 28
 lks. dist., marked $\frac{1}{4}$ S1BT.
 75.32 Intersect 1st. Standard Parallel North, 10.63 chs. W. of
 the standard cor. of secs. 31 and 32, T.5 N.R.11 W. which
 is a stone marked and witnessed as described by the
 surveyor general. At point of intersection I
 set an iron post 3 ft. long, 3 ins. diam., 24 ins. in the
 ground for closing cor. of Tps. 4 N. Rgs. 11 and 12 W.
 marked on brass cap
 CC S. of center;
 T5N R11W S31S 321 in N. and
 T4N 1914 in S. half;
 S6R11W in S. E. and
 S1R12W in S. W. quadrant; and raise a mound of stone
 2 ft. base $1\frac{1}{2}$ ft. high, E. of cor. Pits impracticable.
 Land, level.
 Soil, sandy mixed with rocks and gravel; 3rd. rate.
 No timber.
 Undergrowth, greasewood, paloverde and ironwood.

May 20, 1914.

Boundaries of Tp. 4 N. Rg. 11 W.
 Latitudes, departures and closing errors.

Line designated.	True bearing.	Distance	Latitudes		Departures.	
			N.	S.	E.	W.
North Boundary (1st Std. Parallel N.)	West	478.96				478.96
West Boundary	South	475.32		475.32		
South Boundary	East	478.50			478.50	
East Boundary	North	474.93	474.93			
Convergency.						.48
Totals			474.93	475.32	478.50	478.96
			475.32	474.93		478.50
	Error in Lat.		0.39			0.94
	Error in Dep.					0.94

General Description.

This township is level and rolling, except for a low malpais ridge in the southern part and a spur of the Harqua Hala Mts. in the N. E. cor. There is no water or timber in the Township.

John D. Nease
 U. S. Surveyor

East boundary of Tn. 4 S. Rg. 11 W.

Chains.

Survey commenced June 6, 1914, and executed with a Young and Sons light mountain transit No. 8588, as described in Book "A." 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 the 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 on Polaris, I proceed as follows:

At camp which is located near the cor of secs. 5, 6, 7 and 8, Tp 4 S. Rg. 11 W.; latitude $33^{\circ} 06' 01''$ N. longitude $113^{\circ} 25' 44''$ W.; I set off $33^{\circ} 06'$ N. on the lat. arc; $22^{\circ} 40'$ N. on the decl. arc; and, at 4h. 50m. p.m., l.m.t. determine with the solar a meridian and mark a point thereof, on a stone firmly set in the ground 5 chs. N. of my station.

June 6, 1914.

1914.

June 7: At 2h. 36m. a.m. by my watch which has correct l.m.t., I observe Polaris at eastern elongation, in accordance with Manual of Instructions, and mark a point in the line thus determined, on a peg driven in the ground 5 chs. N. of my station.

At 7h. 00m. a.m., l.m.t., I lay off the azimuth of Polaris $1^{\circ} 23'$ to the west, and mark the meridian thus determined, by cutting a small groove in the stone set June 6, on which the meridian falls 0.4 ins. east of the mark determined by the solar.

At 7h. 30m. a.m., l.m.t., I set off $33^{\circ} 06'$ N. on the lat. arc; $22^{\circ} 43'$ N. on the decl. arc; and mark a point in the meridian determined with the solar, by a cross on the stone already set 5 chs. N. of my station; this mark falls 0.3 ins. east of the meridian established by the Polaris observation.

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

The magnetic bearing of the true meridian at 8h. 00m. a.m., is N. $14^{\circ} 35'$ W.; the angle thus determined gives the mag. decl. $14^{\circ} 35'$ E.

June 7, 1914.

1914:

June 8: At 8h. 00m. a.m., l.m.t., I set off $33^{\circ} 01\frac{1}{2}'$ 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 cor. of Tps. 4 and 5 S. Rgs. 10 and 11 W. recently re-established by Jesse B. Wright U. S. Surveyor. as described in Book "D."

Thence I run

North bet. secs. 31 and 36, on a true line.

Over level land, through dense brush.

29.50 Cross wash 10 lks. wide course S. E.

40.00 Set an iron post 3 ft. long, 1 in. diam., 26 ins. in the ground for $\frac{1}{4}$ sec. cor., marked on brass cap $\frac{1}{4}$ S36 in W. S31 in E. and 1914 in S. half; dig pits 18 x 18 x 12 ins. N. and S. of post 3 ft. dist., and raise a mound of earth $3\frac{1}{2}$ ft. base $1\frac{1}{2}$ ft. high, W. of cor.

64.50 Cross road bears N. W. and S. E.

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

East boundary of Tp. 4 S. Rg. 11 W.

Chains.

brass cap
 T4S in N. and
 1914 in S. half;
 R11WS25 in N. W.
 R10WS30 in N. E.
 S31 in S. E. and
 S26 in S. W. quadrant; dig pits 18 x 18 x 12 ins. in
 each sec. 5 $\frac{1}{2}$ ft. dist., and raise a mound of earth 4 ft.
 base 2 ft. high, W. of cor.
 Land, level.
 Soil, sandy loam, dry, medium texture; 1st. rate.
 No timber.
 Undergrowth, Greasewood, mesquite, paloverde and ironwood.

North bet. secs. 25 and 30.
 Over level land, through dense brush.
 40.00 Set an iron post 3 ft. long, 1 in. diam., 26 ins. in the
 ground for $\frac{1}{4}$ sec. cor., marked on brass cap $\frac{1}{4}$ S25 in W.
 S30 in E. and 1914 in S. half; dig pits 18 x 18 x 12 ins.
 N. and S. of post 3 ft. dist., and raise a mound of earth
 3 $\frac{1}{2}$ ft. base 1 $\frac{1}{2}$ ft. high, W. of cor.
 80.00 Set an iron post 3 ft. long, 3 ins. diam., 24 ins. in the
 ground for cor. of secs. 19, 24, 25 and 30, marked on
 brass cap
 T4S in N. and
 1914 in S. half;
 R11WS24 in N. W.
 R10WS19 in N. E.
 S30 in S. E. and
 S25 in S. W. quadrant; dig pits 18 x 18 x 12 ins. in
 each sec. 5 $\frac{1}{2}$ ft. dist., and raise a mound of earth 4 ft.
 base 2 ft. high, W. of cor.
 Land, level.
 Soil, sandy loam, dry, medium texture; 1st. rate.
 No timber.
 Undergrowth, greasewood, paloverde, ironwood and mesquite.

North bet. secs. 19 and 24.
 Over level land, through dense brush.
 15.00 Cross wash 60 lks. wide course S. E.
 40.00 Set an iron post 3 ft. long, 1 in. diam., 26 ins. in the
 ground for $\frac{1}{4}$ sec. cor., marked on brass cap $\frac{1}{4}$ S24 in W.
 S19 in E. and 1914 in S. half; dig pits 18 x 18 x 12 ins.
 N. and S. of post 3 ft. dist., and raise a mound of earth
 3 $\frac{1}{2}$ ft. base 1 $\frac{1}{2}$ ft. high, W. of cor.
 80.00 Set an iron post 3 ft. long, 3 ins. diam., 24 ins. in the
 ground for cor. of secs. 13, 18, 19 and 24, marked on
 brass cap
 T4S in N. and
 1914 in S. half;
 R11WS13 in N. W.
 R10WS18 in N. E.
 S19 in S. E. and
 S24 in S. W. quadrant; from which
 A paloverde 12 ins. diam., bears N. 74° E. 387
 lks. dist., marked T4SR10WS18BT.
 A paloverde 5 ins. diam., bears S. 7° E. 288
 lks. dist., marked T4SR10WS19BT.
 A paloverde 6 ins. diam., bears S. 8 $\frac{1}{2}$ ° W. 216
 lks. dist., marked T4SR11WS24BT.
 A paloverde 8 ins. diam., bears N. 77° W. 300
 lks. dist., marked T4SR10WS13BT.
 Land, level.
 Soil, sandy loam, dry, medium texture; 1st. rate.
 No timber.
 Undergrowth, greasewood, mesquite, paloverde and ironwood.

East boundary of Tp. 4 S. Rg. 11 W.

Chains

- North bet. secs. 13 and 18.
Over level land, through dense brush.
- 40.00 Set an iron post 3 ft. long, 1 in. diam., 26 ins. in the ground for $\frac{1}{4}$ sec. cor., marked on brass cap $\frac{1}{4}$ S13 in W. S18 in E. and 1914 in S. half; dig pits 18 x 18 x 12 ins. N. and S. of post 3 ft. dist., and raise a mound of earth $3\frac{1}{2}$ ft. base $1\frac{1}{2}$ ft. high, W. of cor.
- 80.00 Set an iron post 3 ft. long, 3 ins. diam., 24 ins. in the ground for cor. of secs. 7, 12, 13 and 18, marked on brass cap
T4S in N. and
1914 in S. half;
R11WS12 in N. W.
R10WS7 in N. E.
S18 in S. E. and
S13 in S. W. quadrant; dig pits 18 x 18 x 12 ins. in each sec. $5\frac{1}{2}$ ft. dist., and raise a mound of earth $3\frac{1}{2}$ ft. base $1\frac{1}{2}$ ft. high, W. of cor.
Land, level.
Soil, sandy loam, dry, medium texture; 1st. rate.
No timber.
Undergrowth, greasewood, paloverde, ironwood.
- Note: June 8: At this cor. I set off $22^{\circ} 50'$ N. on the decl. arc; and observe the sun on the meridian at noon; the resulting lat. is $33^{\circ} 05'$ N.

- North bet. secs. 7 and 12.
Over level land, through dense brush.
- 40.00 Set an iron post 3 ft. long, 1 in. diam., 26 ins. in the ground for $\frac{1}{4}$ sec. cor., marked on brass cap $\frac{1}{4}$ S12 in W. S7 in E. and 1914 in S. half; dig pits 18 x 18 x 12 ins. N. and S. of post 3 ft. dist., and raise a mound of earth $3\frac{1}{2}$ ft. base $1\frac{1}{2}$ ft. high, W. of cor.
- 80.00 Set an iron post 3 ft. long, 3 ins. diam., 24 ins. in the ground for cor. of secs. 1, 6, 7 and 12, marked on brass cap
T4S in N. and
1914 in S. half;
R11WS1 in N. W.
R10WS6 in N. E.
S7 in S. E. and
S12 in S. W. quadrant; dig pits 18 x 18 x 12 ins. in each sec. $5\frac{1}{2}$ ft. dist., and raise a mound of earth 4 ft. base 2 ft. high, W. of cor.
Land, level.
Soil, sandy loam, dry, medium texture; 1st. rate.
No timber.
Undergrowth, greasewood, paloverde and ironwood.

- North bet. secs. 1 and 6.
Over level land, through dense brush.
- 40.00 Set an iron post 3 ft. long, 1 in. diam., 26 ins. in the ground for $\frac{1}{4}$ sec. cor., marked on brass cap $\frac{1}{4}$ S1 in W. S6 in E. and 1914 in S. half; dig pits 18 x 18 x 12 ins. N. and S. of post 3 ft. dist., and raise a mound of earth $3\frac{1}{2}$ ft. base $1\frac{1}{2}$ ft. high, W. of cor.
- 59.20 Cross wash 50 lks. wide course S. E.
- 80.00 Set an iron post 3 ft. long, 3 ins. diam., 24 ins. in the ground for cor. of Tps. 3 and 4 S. Rgs. 10 and 11 W., marked on brass cap
T3S in N.
R10W in E.
T4S 1914 in S. and
R11W in W. half;
S36 in N. W.
S31 in N. E.

East boundary of Tp. 4 S. Rg. 11 W.

Chains.

S6 in S. E. and

S1 in S. W. quadrant; dig pits 24 x 24 x 12 ins. on each line, N. 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, S. of cor.

Land, level.

Soil, sandy loam, dry, medium texture; 1st. rate.

No timber.

Undergrowth, greasewood, paloverde and ironwood.

June 8, 1914.

North boundary of Tp. 4 S. Rg. 12 W.

Chains.

- June 9¹⁹¹⁴: At 7h. 00m. a.m., l.m.t., I set off $33^{\circ} 07'$ N. on the lat. arc; $22^{\circ} 55'$ N. on the decl. arc; and determine a meridian with the solar at the cor. of Tps. 3 and 4 S. Rgs. 11 and 12 W., estab. by Jesse B. Wright, U.S. Surveyor, as described in Book "A." Thence I run, West on a random line, along the E. ldy. of Tp. 4 S. Rg. 12 W., setting temp. $\frac{1}{4}$ sec. and sec. cors. at intervals of 40.00 chs.; and at 479.22 chs., intersect the W. ldy. of Tps. 3 and 4 S. Rgs. 12 and 13 W. which is an iron post, marked and witnessed as described by the surveyor general. The falling answers to a correction of $0^{\circ} 01'$, or 3 lks. S. per mile, counting from the N. E. cor. of the Tp.; therefore I run N. $89^{\circ} 59'$ E., bet. secs. 6 and 31, marking and blazing true line. Over rolling land, through dense brush.
- 4.87 Cross wash 60 lks. wide course S.
 9.42 Cross wash 75 lks. wide course S.
 39.22 Set an iron post 3 ft. long, 1 in. diam., 26 ins. in the ground for $\frac{1}{4}$ sec. cor., marked on brass cap $\frac{1}{4}$ S31 in N. and S6 1914 in S. half; from which
 A paloverde 7 ins. diam., bears N. $45\frac{3}{4}^{\circ}$ E. 159 lks. dist., marked $\frac{1}{4}$ S31BT.
 A paloverde 8 ins. diam., bears S. $57\frac{1}{2}^{\circ}$ E. 158 lks. dist., marked $\frac{1}{4}$ S6BT.
- 79.22 Set an iron post 3 ft. long, 3 ins. diam., 24 ins. in the ground for cor. of secs. 5, 6, 31 and 32, marked on brass cap
 T3S in N.
 T4S 1914 in S. and
 R12W in W. half;
 S31 in N. W.
 S32 in N. E.
 S5 in S. E. and
 S6 in S. W. quadrant; from which
 A paloverde 10 ins. diam., bears N. $19\frac{3}{4}^{\circ}$ W. 147 lks. dist., marked T3SR12WS31BT.
 A paloverde 7 ins. diam., bears S. $6\frac{1}{2}^{\circ}$ W. 227 lks. dist., marked T4SR12WS6BT.
- No other bearings available. Dig pits 18 x 18 x 12 ins. in each sec. $5\frac{1}{2}$ ft. dist., and raise a mound of earth 4 ft. base 2 ft. high, W. of cor.
 Land, rolling.
 Soil, sandy loam, mixed with gravel and rocks; 3rd. rate.
 No timber.
 Undergrowth, greasewood, ironwood, paloverde, catclaw and mesquite.
-
- N. $89^{\circ} 59'$ E. bet. secs. 5 and 32.
 Over rolling land, through dense brush.
- 24.20 Cross wash 12 lks. wide course S.
 40.00 Set an iron post 3 ft. long, 1 in. diam., 26 ins. in the ground for $\frac{1}{4}$ sec. cor., marked on brass cap $\frac{1}{4}$ S32 in N. and S5 1914 in S. half; from which
 A paloverde 7 ins. diam., bears N. $72\frac{1}{2}^{\circ}$ E. 86 lks. dist., marked $\frac{1}{4}$ S32BT.
 A paloverde 6 ins. diam., bears S. $75\frac{1}{2}^{\circ}$ E. 107 lks. dist., marked $\frac{1}{4}$ S5BT.
- 46.20 Cross wash 20 lks. wide course S.
 55.80 Cross wash 20 lks. wide course S.
 80.00 Set an iron post 3 ft. long, 3 ins. diam., 24 ins. in the ground for cor. of secs. 4, 5, 32 and 33, marked on brass cap
 T3S in N.
 T4S 1914 in S. and
 R12W in W. half;
 S32 in N. W.
 S33 in N. E.
 S4 in S. E. and
 S5 in S. W. quadrant; from which.

North boundary of Tn. 4 S. Rg. 12 W.

Chains.

- A paloverde .5 ins. diam., bears N. $70\frac{1}{4}^\circ$ W. 76 lks. dist., marked T3SR12WS32BT.
- A paloverde 6 ins. diam., bears N. 56° E. 222 lks. dist., marked T3SR12WS33BT.
- A paloverde 6 ins. diam., bears S. $29\frac{3}{4}^\circ$ E. 88 lks. dist., marked T4SR12WS4BT.
- A paloverde 5 ins. diam., bears S. $42\frac{1}{2}^\circ$ W. 31 lks. dist., marked T4SR12WS5BT.

Land, rolling.
Soil, sandy loam, mixed with gravel and rocks; 3rd. rate.
No timber.
Undergrowth, greasewood, paloverde, ironwood, mesquite and catclaw.

N. $89^\circ 59'$ E. bet. secs. 4 and 33.

Over rolling land, through dense brush.

19.50 Cross wash 20 lks. wide course S.

40.00 Set an iron post 3 ft. long, 1 in. diam., 26 ins. in the ground for $\frac{1}{4}$ sec. cor., marked on brass cap $\frac{1}{4}$ S33 in N. and S4 1914 in S. half; from which

A paloverde 6 ins. diam., bears N. $51\frac{3}{4}^\circ$ E. 364 lks. dist., marked $\frac{1}{4}$ S33BT.

A paloverde 5 ins. diam., bears S. 37° W. 298 lks. dist., marked $\frac{1}{4}$ S4BT.

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

T3S in N.

T4S 1914 in S. and

R12W in W. half;

S33 in N. W.

S34 in N. E.

S3 in S. E. and

S4 in S. W. quadrant; from which

A paloverde 7 ins. diam., bears N. $78\frac{1}{2}^\circ$ E. 420 lks. dist., marked T3SR12WS34BT

A paloverde 10 ins. diam., bears S. $2\frac{3}{4}^\circ$ W. 325 lks. dist., marked T4SR12WS4BT.

no other bearings available. dig pits 18 x 18 x 12 ins. in each sec. $5\frac{1}{2}$ ft. dist., and raise a mound of earth 4 ft. base 2 ft. high, W. of cor.

Land, rolling.

Soil, sandy loam mixed with gravel and rocks; 4th. rate.

No timber.

Undergrowth, greasewood, ironwood, paloverde, catclaw and mesquite.

N. $89^\circ 59'$ E. bet. secs. 3 and 34.

Over rolling land, through dense brush.

10.55 Cross wash 15 lks. wide course SE.

38.50 Cross wash 125 lks. wide course S.

40.00 Set an iron post 3 ft. long, 1 in. diam., 26 ins. in the ground for $\frac{1}{4}$ sec. cor., marked on brass cap $\frac{1}{4}$ S34 in N. and S3 1914 in S. half; from which

A paloverde 7 ins. diam., bears N. $34\frac{1}{2}^\circ$ E. 16 lks. dist., marked $\frac{1}{4}$ S34BT.

A paloverde 5 ins. diam., bears S. $57\frac{3}{4}^\circ$ W. 21 lks. dist., marked $\frac{1}{4}$ S3BT.

58.10 Cross wash 25 lks. wide course S.

72.20 Cross road bears N. E. and S. W.

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

T3S in N.

T4S 1914 in S. and

R12W in W. half;

North boundary of Tp. 4 S. Rg. 12 W.

Chains

	<p>S54 in N. W. S55 in N. E. S2 in S. E. and S3 in S. W. quadrant; dig pits 18 x 18 x 12 ins. in each sec. $5\frac{1}{2}$ ft. dist., and raise a mound of earth 4 ft. base 2 ft. high, W. of cor. Land, rolling. Soil, sandy mixed with gravel and rocks; 3rd. rate. No timber. Undergrowth, greasewodd, paloverde, ironwood, catclaw and mesquite.</p>
	<p>N. 89° 59' E. bet. secs. 2 and 35. Over rolling land, through dense brush.</p>
8.60	Cross wash 75 lks. wide course S. E.
24.75	Cross wash 15 lks. wide course S. W.
40.00	Set an iron post 3 ft. long, 1 in. diam., 26 ins. in the ground for $\frac{1}{4}$ sec. cor., marked on brass cap $\frac{1}{4}$ S35 in N. and S2 1914 in S. half; dig pits 18 x 18 x 12 ins. E. and W. of post 3 ft. dist., and raise a mound of earth $3\frac{1}{2}$ ft. base $1\frac{1}{2}$ ft. high, N. of cor.
80.00	Set an iron post 3 ft. long, 3 ins. diam., 24 ins. in the ground for cor. of secs. 1, 2, 35 and 36, marked on brass cap
	<p>T3S in N. T4S 1914 in S. and R12W in W. half; S35 in N. W. S36 in N. E. S1 in S. E. and S2 in S. W. quadrant; from which A paloverde 5 ins. diam., bears N. $8\frac{1}{2}^{\circ}$ E. 260 lks. dist., marked T3SR12WS36BT. A paloverde 8 ins. diam., bears S. $75\frac{1}{2}^{\circ}$ E. 269 lks. dist., marked T4SR12WS1BT.</p>
	<p>No other bearings available. Dig pits 18 x 18 x 12 ins. in each sec. $5\frac{1}{2}$ ft. dist., and raise a mound of earth 4 ft. base 2 ft. high, W. of cor. Land, rolling. Soil, sandy, mixed with gravel and rocks; 3rd. rate. No timber. Undergrowth, greasewood, ironwood, paloverde and mesquite.</p>
	<p>N. 89° 59' E. bet. secs. 1 and 36. Over rolling land, through dense brush.</p>
32.70	Cross road bears N. W. and S. E.
40.00	Set an iron post 3 ft. long, 1 in. diam., 26 ins. in the ground for $\frac{1}{4}$ sec. cor., marked on brass cap $\frac{1}{4}$ S36 in N. and S1 1914 in S. half; dig pits 18 x 18 x 12 ins. E. and W. of post 3 ft. dist., and raise a mound of earth $3\frac{1}{2}$ ft. base $1\frac{1}{2}$ ft. high, N. of cor.
51.30	Cross wash 60 lks. wide course S. E.
73.50	Cross wash 10 lks. wide course S. E.
80.00	The cor. of Tps. 3 and 4 S. Rgs. 11 and 12 W., described in (Book "A.") Land, rolling. Soil, sandy, mixed with gravel and rocks; 3rd. rate. No timber. Undergrowth, greasewood, paloverde, ironwood and mesquite.

June 9, 1914.

North boundary of Tp. 4 S., Rg. 12 W.

Chains.

Boundaries of Tp. 4 S., Rg. 12 W.
Latitudes, departures and closing errors.

Line designated	True bearing	Distance	Latitudes		Departures	
			N.	S.	E.	W.
C. 1/2 Sec. 36, T. 4 S., R. 12 W. South Boundary	S. 89° 36' W.	40.60		.28		40.60
	S. 89° 51' W.	40.06		.10		40.06
	S. 89° 16' W.	40.12		.51		40.12
	N. 89° 38' W.	40.47	.26			40.47
	N. 89° 50' W.	39.70	.11			39.70
	N. 89° 45' W.	40.12	.18			40.12
	N. 89° 58' W.	80.11	.05			80.11
	N. 89° 58' W.	80.28	.05			80.28
	West.	39.42				39.42
	N. 89° 58' W.	39.58	.02			39.58
West Boundary	North	480.00	480.00			
North Boundary	N. 89° 59' E.	479.22	.14		479.22	
East Boundary	South	480.00		480.00		
Convergency					.47	
<u>Totals</u>			480.81	480.89	479.69	480.46
			480.00	480.81		479.69
<u>Error in lat</u>				0.08		.77
						0.77
<u>Error in Dep.</u>						0.77

General Description.

This township is rolling and covered with dense brush. There is no water or timber in the township.

John D. Kesse
U. S. Surveyor

North boundary of T_{p.} 4 S. R_{g.} 11 W.

Chains	1914:
	<p>June 10: At 8h. 00m. a.m., l.m.t., I set off $33^{\circ} 07'$ N. on the lat. arc; $22^{\circ} 59\frac{1}{2}'$ N. on the decl. arc; and determine a meridian with the solar at the cor. of T_{ps.} 3 and 4 S. R_{gs.} 10 and 11 W. hereinbefore described.</p> <p>Thence I run West on a random line, setting temp. $\frac{1}{2}$ sec. and sec. cors. at intervals of 40 chs., and at 468.55 chs., fall 2 lks. N. of the cor. of T_{s.} 3 and 4 S., R_{s.} 11 and 12 W., established by Jesse B. Wright, U.S. Surveyor, as described in Book "A." 18. recently established by Jesse B. Wright, U. S. Surveyor. The falling answers to a correction of $0^{\circ} 00'$ per mile; therefore I run East bet. secs. 6 and 31, marking and blazing true line. Over level land, through dense brush.</p>
18.70	Cross wash 70 lks. wide course S.
28.55	<p>Set an iron post 3 ft. long, 1 in. diam., 26 ins. in the ground for $\frac{1}{2}$ sec. cor., marked on brass cap $\frac{1}{4}$S31 in N. and S6 1914 in S. half; from which</p> <p style="padding-left: 40px;">A paloverde 10 ins. diam., bears N. 65° W. 293 lks. dist., marked $\frac{1}{4}$S31BT.</p> <p style="padding-left: 40px;">A paloverde 7 ins. diam., bears S. 88° E. 14 lks. dist., marked $\frac{1}{4}$S6BT.</p>
68.55	<p>Set an iron post 3 ft. long, 3 ins. diam., 24 ins. in the ground for cor. of secs. 5, 6, 31 and 32, marked on brass cap</p> <p style="padding-left: 40px;">T3S in N. T4S 1914 in S. and R11W in W. half; S31 in N. W. S32 in N. E. S5 in S. E. and S6 in S. W. quadrant; dig pits 18 x 18 x 12 ins. in each sec. $5\frac{1}{2}$ ft. dist., and raise a mound of earth 4 ft. base 2 ft. high, W. of cor. Land, level. Soil, sandy loam, mixed with gravel; 2nd. rate. No timber. Undergrowth, greasewood, paloverde and ironwood.</p>
40.00	<p>East bet. secs. 5 and 32. Over level land, through dense brush.</p> <p>Set an iron post 3 ft. long, 1 in. diam., 26 ins. in the ground for $\frac{1}{2}$ sec. cor., marked on brass cap $\frac{1}{4}$S32 in N. and S5 1914 in S. half; dig pits 18 x 18 x 12 ins. E. and W. of post 3 ft. dist., and raise a mound of earth $3\frac{1}{2}$ ft. base $1\frac{1}{2}$ ft. high, N. of cor.</p>
80.00	<p>Set an iron post 3 ft. long, 3 ins. diam., 24 ins. in the ground for cor. of secs. 4, 5, 32 and 33, marked on brass cap</p> <p style="padding-left: 40px;">T3S in N. T4S 1914 in S. and R11W in W. half; S32 in N. W. S33 in N. E. S4 in S. E. and S5 in S. W. quadrant; from which</p> <p style="padding-left: 80px;">A paloverde 10 ins. diam., bears S. $32\frac{1}{2}^{\circ}$ E. 90 lks. dist., marked T4SR11WS4BT.</p> <p>No other bearings available. Dig pits 18 x 18 x 12 ins. in each sec. $5\frac{1}{2}$ ft. dist., and raise a mound of earth 4 ft. base 2 ft. high, W. of cor. Land, level. Soil, sandy loam, dry, medium texture; mixed with gravel; 2nd. rate. No timber. Undergrowth, greasewood, paloverde and ironwood.</p>

North boundary of Tp. 4 S. Rg. 11 W.

Chains.	
	East bet. secs. 4 and 33. Over level land, through dense brush.
40.00	Set an iron post 3 ft. long, 1 in. diam., 26 ins. in the ground for $\frac{1}{4}$ sec. cor., marked on brass cap $\frac{1}{4}$ S33 in N. and S4 1914 in S. half; from which
	A paloverde 10 ins. diam., bears N. $70\frac{1}{2}^{\circ}$ W. 360 lks. dist., marked $\frac{1}{4}$ S33BT.
	An ironwood 10 ins. diam., bears S. 75° E. 272 lks. dist., marked $\frac{1}{4}$ S4BT.
80.00	Set an iron post 3 ft. long, 3 ins. diam., 24 ins. in the ground for cor. of secs. 3, 4, 33 and 34, marked on brass cap
	T3S in N.
	T4S 1914 in S. and
	R11W in W. half;
	S33 in N. W.
	S34 in N. E.
	S3 in S. E. and
	S4 in S. W. quadrant; dig pits 18 x 18 x 12 ins. in each sec. $5\frac{1}{2}$ ft. dist., and raise a mound of earth 4 ft. base 2 ft. high, W. of cor.
	Land, level.
	Soil, sandy loam, mixed with gravel; 2nd. rate.
	No timber.
	Undergrowth, greasewood, paloverde and ironwood.
	<hr/>
	East bet. secs. 3 and 34.
	Over level land, through dense brush.
8.80	Cross wash 12 lks. wide course S. E.
13.20	Cross road bears N. W. and S. E.
25.05	Cross road bears N. W. and S. E.
35.00	Cross wash 60 lks. wide course S. E.
40.00	Set an iron post 3 ft. long, 1 in. diam., 26 ins. in the ground for $\frac{1}{4}$ sec. cor., marked on brass cap $\frac{1}{4}$ S34 in N. and S3 1914 in S. half; from which
	A paloverde 4 ins. diam., bears N. 25° W. 47 lks. dist., marked $\frac{1}{4}$ S34BT.
	A paloverde 10 ins. diam., bears S. $85\frac{1}{2}^{\circ}$ E. 90 lks. dist., marked $\frac{1}{4}$ S3BT.
47.20	Cross wash 20 lks. wide course S. E.
74.90	Cross road bears N. and S.
80.00	Set an iron post 3 ft. long, 3 ins. diam., 24 ins. in the ground for cor. of secs. 2, 3, 34 and 35, marked on brass cap
	T3S in N.
	T4S 1914 in S. and
	R11W in W. half;
	S34 in N. W.
	S35 in N. E.
	S2 in S. E. and
	S3 in S. W. quadrant; dig pits 18 x 18 x 12 ins. in each sec. $5\frac{1}{2}$ ft. dist., and raise a mound of earth 4 ft. base 2 ft. high, W. of cor.
	Land, level.
	Soil, sandy loam, dry, medium texture, mixed with gravel; 2nd. rate.
	No timber.
	Undergrowth, greasewood, paloverde and ironwood.
	<hr/>
	East bet. secs. 2 and 35.
	Over level land, through dense brush.
40.00	Set an iron post 3 ft. long, 1 in. diam., 26 ins. in the ground for $\frac{1}{4}$ sec. cor., marked on brass cap $\frac{1}{4}$ S35 in N. and S2 1914 in S. half; dig pits 18 x 18 x 12 ins. E. and W. of post 3 ft. dist., and raise a mound of earth $3\frac{1}{2}$ ft. base $1\frac{1}{2}$ ft. high, N. of cor.

North boundary of Tp. 4 S. Rg. 11 W.

Chains.

55.15 Cross wash 8 lks. wide course S. E.
 80.00 Set an iron post 3 ft. long, 3 ins. diam., 24 ins. in the ground for cor. of secs. 1, 2, 35 and 36, marked on brass cap
 T3S in N.
 T4S 1914 in S. and
 R11W in W. half;
 S35 in N. W.
 S36 in N. E.
 S1 in S. E. and
 S2 in S. W. quadrant; from which
 A paloverde 10 ins. diam., bears N. $66\frac{1}{2}^\circ$ W. 133 lks. dist., marked T3SR11WS35BT.
 A paloverde 5 ins. diam., bears S. 62° E. 40 lks. dist., marked T4SR11WS1BT.
 No other bearings available. Dig pits 18 x 18 x 12 ins. in each sec. $5\frac{1}{2}$ ft. dist., and raise a mound of earth 4 ft. base 2 ft. high, W. of cor.
 Land, level.
 Soil, sandy loam, mixed with gravel; 2nd. rate.
 No timber.
 Undergrowth, greasewood, paloverde and ironwood.

40.00 East bet. secs. 1 and 36.
 Over level land, through dense brush.
 Set an iron post 3 ft. long, 1 in. diam., 26 ins. in the ground for $\frac{1}{2}$ sec. cor., marked on brass cap $\frac{1}{2}$ S36 in N. and S1 1914 in S. half; dig pits 18 x 18 x 12 ins. E. and W. of post 3 ft. dist., and raise a mound of earth $3\frac{1}{2}$ ft. base $1\frac{1}{2}$ ft. high, N. of cor.
 64.80 Cross wash 25 lks. wide course S, E.
 80.00 The cor. of Tps. 3 and 4 S. Rgs. 10 and 11 W. hereinbefore described.
 Land, level.
 Soil, sandy loam, dry, medium texture; 1st. rate.
 No timber.
 Undergrowth, greasewood, paloverde and ironwood.

June 10, 1914.

Boundaries of Tp. 4 S. Rg. 11 W.
 Latitudes, departures and closing errors.

Line designated	True bearing	Distance	Latitudes		Departures	
			N.	S.	E.	W.
South boundary	S $89^\circ 40' W$	39.71		.23		39.71
	S $89^\circ 28' W$	39.87		.37		39.87
	S $89^\circ 51' W$	80.30		.21		80.30
	N $89^\circ 39' W$	80.30	.49			80.30
	N $89^\circ 43' W$	80.30	.40			80.30
	N $89^\circ 48' W$	80.34	.28			80.34
	N $89^\circ 48' W$	40.12	.14			40.12
	S $89^\circ 56' W$	28.12		.04		28.12
West boundary	North	480.00	480.00			
North boundary	East	468.55			468.55	
East boundary	South	480.00		480.00		
Convergency					.47	
Totals			481.31	480.85	469.02	469.06
Error in lat.			480.85			469.02
			.46	Error in dep.		.04

North boundary of Tp. 4 S. Rg. 11 W.

Chains.

General Description.

This township is level and covered with dense brush.
There is no water or timber in the township.

John P. Hesse
U. S. Surveyor

Survey of North 5 miles of
East boundary of Tp. 4 S. Rg. 9 W.

Chains.

Survey commenced June 20, 1914, and executed with a Young and Sons light mountain transit, No. 8588, described in Book "A". The horizontal limb is provided with two double verniers, and is graduated to read at any position to single number of arc, which is also the least count of the verniers of the limb, and the declination arc.

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

At camp which is located near the cor of secs. 19, 24, 25 and 30 on the W. bdy. of the Tp. latitude $33^{\circ} 03' 25''$ N., longitude $113^{\circ} 14' 22''$ W.; I set off $33^{\circ} 03\frac{1}{2}'$ N. on the lat. arc; $23^{\circ} 27\frac{1}{2}'$ N. on the decl. arc; and, at 4h. 30m. p.m., l.m.t., determine with the solar a meridian and mark a point thereof, on a stone firmly set in the ground 5 chs N. of my station.

June 20, 1914.

1914:

June 21: At 1h. 38m. a.m. by my watch which has correct l.m.t., I observe Polaris at eastern elongation, in accordance with Manual of Instructions, and mark a point in the line thus determined, on a peg driven in the ground, 5 chs. N. of my station.

At 7h. 00m. a.m., l.m.t., I lay off the azimuth of Polaris $1^{\circ} 23'$ to the west, and mark the meridian thus determined by cutting a small groove in the stone set June 20, on which the meridian falls 0.2 ins. east of the mark determined by the solar.

At 7h. 30m. a.m., l.m.t., I set off $33^{\circ} 03\frac{1}{2}'$ N. on the lat. arc; $23^{\circ} 27\frac{1}{2}'$ N. on the decl. arc; and mark a point in the meridian determined with the solar, by a cross on the stone already set 5 chs. N. of my station; this mark falls 0.3 ins. east of the meridian established by the Polaris observation.

The solar apparatus, by p.m. and a.m. observations, defines positions for meridians, respectively about $0' 11''$ west and $0' 16''$ E. of the meridian established by the Polaris observations; therefore, I conclude that the adjustments of the instrument are satisfactory.

The magnetic bearing of the true meridian, at 8h. 00m. a.m., is N. $14^{\circ} 35'$ W.; the angle thus determined gives the mag. decl. $14^{\circ} 35'$ E. Preliminary to survey of E. bdy. of T. 4 S., R. 9 W., I begin at cor. of Ts. 3 & 4 S., Rs. 9 & 10 W., estab. by Jesse B. Wright, as described in book "A", run East, on random line on N. bdy. of Tp., setting temp. $\frac{1}{4}$ sec. & sec. cors. at intervals of 40 chs. & at 480.79 chs. (length of S. bdy. of Tp. — convergency) set temp. cor. of Ts. 3 & 4 S., R. 9 W.

June 21, 1914.

June 22, ¹⁹¹⁴ At 8h. 00m. a.m., l.m.t., I set off $33^{\circ} 02\frac{1}{2}'$ N. on the ~~lat.~~ arc; $23^{\circ} 27\frac{1}{2}'$ N. on the decl. arc; and determine a meridian with the solar at ^{big} cor. of secs. 25, 30, 31 and 36 on the E. bdy. of the Tp., which is an iron post marked and witnessed as described by the surveyor general.

Thence I run

North on a random line along the E. bdy. of Tp. 4 S. Rg. 9 W., setting temp. $\frac{1}{4}$ sec. and sec. cors. at intervals of 40.00 chs.; and at 408.00 chs.; establish Tp. cor. 11 lks.

E. of temp. Tp. cor. set by me yesterday, as follows: set an iron post 3 ft. long, 3 ins. diam., 24 ins. in the ground for cor. of Tps. 3 and 4 S. Rg. 9 W. marked on brass cap

1914 in S.

R8W T3SS31S6T4S in E. and

R9W in W. half;

T3SS36 in N. W. and

SlT4S in S. W. quadrant; and raise a mound of stone 2 ft. base $1\frac{1}{2}$ ft. high, W. of cor. Pits impracticable.

Survey of North 5 miles of
East boundary of Tn. 4 S. Rg. 9 W.

	<p>The true length of N.bdy. of T.4 S., R.9 W. is therefore 480.79 chs. +.11 chs. = 480.90 chs. June 22, 24, 1914.</p>
<p>Chains. 40.00 80.00</p>	<p>1914: June 25 At 7h. 00m. a.m., l.m.t., I set off 33° 07' N. on the lat. arc; 23° 26' N. on the decl. arc; and determine a meridian with the solar at the cor. of Tps. 3 and 4 S. Rg. 9 W. hereinbefore described. Thence I run South on E. bdy. of sec. 1 marking and blazing true line. Over rolling land, through dense brush. Set an iron post 3 ft. long, 1 in. diam., 26 ins. in the ground for $\frac{1}{4}$ sec. cor., marked on brass cap $\frac{1}{4}$S1 in W. and 1914 in S. half; from which A paloverde 6 ins. diam., bears N. 65$\frac{1}{2}$° W. 9 lks. dist., marked $\frac{1}{4}$S1BT. A paloverde 6 ins. diam., bears S. 32$\frac{1}{2}$° W. 159 lks. dist., marked $\frac{1}{4}$S1BT. Set an iron post 3 ft. long, 3 ins. diam., 24 ins. in the ground for cor. of secs. 1 and 12, marked on brass cap T4S in N. S6 S7 R8W in E. and 1914 in S. half; S1 in N. W. and S12 R9W in S. W. quadrant; from which A paloverde 24 ins. diam., bears N. 41$\frac{1}{4}$° W. 103 lks. dist., marked T4SR9WS1BT. No other bearings available. Raise a mound of stone 2 ft. base $1\frac{1}{2}$ ft. high, W. of cor. Pits impracticable. Land, rolling. Soil, rocky; 4th. rate. No timber. Undergrowth, greasewood and paloverde.</p>
<p>40.00 80.00</p>	<p>South on E. bdy. of sec. 12. Over rolling land, through dense brush. Set an iron post 3 ft. long, 1 in. diam., 26 ins. in the ground for $\frac{1}{4}$ sec. cor., marked on brass cap $\frac{1}{4}$S12 in W. and 1914 in S. half; from which A paloverde 10 ins. diam., bears N. 85° W. 279 lks. dist., marked $\frac{1}{4}$S12BT. A paloverde 12 ins. diam., bears S. 24° W. 197 lks. dist., marked $\frac{1}{4}$S12BT. Set an iron post 3 ft. long, 3 ins. diam., 24 ins. in the ground for cor. of secs. 12 and 13, marked on brass cap T4S in N. S7 S18 R8W in E. and 1914 in S. half; S12 in N. W. and S13 R9W in S. W. quadrant; and raise a mound of stone 2 ft. base $1\frac{1}{2}$ ft. high, W. of cor. Pits impracticable. Land, rolling. Soil, rocky and gravelly; 3rd. rate. No timber. Undergrowth, greasewood and paloverde.</p>
<p>8.75 39.00 40.00</p>	<p>South on E. bdy. of sec. 13. Over rolling land, through dense brush. Cross road bears N. W. and S. E. Cross wash 30 lks. wide course S. E. Set an iron post 3 ft. long, 1 in. diam., 26 ins. in the ground for $\frac{1}{4}$ sec. cor., marked on brass cap $\frac{1}{4}$S13 in W. and 1914 in S. half; and raise a mound of stone 2 ft. base $1\frac{1}{2}$ ft. high, W. of cor. Pits impracticable.</p>

miles of
Survey of N. 5 East boundary of Tp. 4 S. Rg. 9 W.

Chains

40.25 Ascend rough N. E. slope. Leave brush.
53.50 Ridge bears N. W. and S. E. descend.
59.00 Over rolling land,
70.00 Cross wash 20 lks. wide course E. ascend.
80.00 Set an iron post 3 ft. long, 3 ins. diam., 24 ins. in the ground for cor. of secs. 13 and 24, marked on brass cap T4S in N.
S18 S19 R8W in E. and 1914 in S. half;
S13 in N. W. and S24 R9W in S. W. quadrant; and raise a mound of stone 2 ft. base $1\frac{1}{2}$ ft. high, W. of cor. Pits impracticable.
Land, rolling and mountainous.
Soil, rocky; 4th. rate.
No timber.
Undergrowth, greasewood and paloverde.

South on E. bdy. of sec. 24.

Ascending.

10.00 Ridge bears N. W. and S. E. descend.
14.00 Cross wash 15 lks. wide course S. E. ascend.
21.00 Ridge bears E. and W. descend.
28.00 Cross wash 20 lks. wide course N. E. ascend.
36.50 Ridge bears N. E. and S. W. descend.
40.00 Set an iron post 3 ft. long, 1 in. diam., 26 ins. in the ground for $\frac{1}{4}$ sec. cor., marked on brass cap $\frac{1}{4}$ S24 in W. and 1914 in S. half; and raise a mound of stone 2 ft. base $1\frac{1}{2}$ ft. high, W. of cor. Pits impracticable.
41.00 Cross wash 20 lks. wide course N. E. ascend.
48.00 Cross ridge N. E. and S. W. descend.
74.00 Cross wash 20 lks. wide course N. E. ascend.
80.00 Set an iron post 3 ft. long, 3 ins. diam., 24 ins. in the ground for cor. of secs. 24 and 25, marked on brass cap T4S in N.
S19 S30 R8W in E. and 1914 in S. half;
S24 in N. W. and S25 R9W in S. W. quadrant; and raise a mound of stone 2 ft. base $1\frac{1}{2}$ ft. high, W. of cor. Pits impracticable.
Land, mountainous.
Soil, volcanic rock; 4th. rate.
No timber.

Note: June 25: At this cor. I set off $23^{\circ} 24\frac{1}{2}'$ N. on the decl. arc; and observe the sun on the meridian at noon; the resulting lat. is $35^{\circ} 03\frac{1}{2}'$ N.

South on E. bdy. of sec. 25.

Ascending.

40.00 Set an iron post 3 ft. long, 1 in. diam., 26 ins. in the ground for $\frac{1}{4}$ sec. cor., marked on brass cap $\frac{1}{4}$ S25 in W. and 1914 in S. half; and raise a mound of stone 2 ft. base $1\frac{1}{2}$ ft. high, W. of cor. Pits impracticable.
41.50 Top of ridge bears E. and W. descend.
61.00 Cross wash 15 lks. wide course S. E. ascend.
66.00 Ridge bears N. W. and S. E. descend.
74.50 Cross wash 20 lks. wide course S. E. ascend
80.00 Set an iron post 3 ft. long, 3 ins. diam., 24 ins. in ground for reestablish cor. of secs. 25 and 36, marked on brass cap T4S in N.
S30 S31 R8W in E. and 1914 in S. half;
S25 in N. W. and S36 R9W in S. W. quadrant; and raise a mound of stone 2 ft. base $1\frac{1}{2}$ ft. high, W. of cor. Pits impracticable.
Land, mountainous.

Resurvey of East boundary of Tp. 4 S. Rg. 9 W., E. of sec. 36.

Chains.

Soil, Volcanic rock; worthless.
No timber.

South resurveying E. bdy. of sec. 36.

Ascending.

2.00 Over rough top of mesa.

8.00 The cor. of secs. 25 and 36 as originally established. I destroy all trace of this cor.

17.63 Descend steep rough S. slope of mesa.

23.98 The orig. C.C. of secs. 30 & 31, T. 4 S., R. 9 W., an iron post mkd. & witnessed as described by Sur. General.

40.00 Set an iron post 3 ft. long, 1 in. in diam. 26 ins. in ground for reestab. $\frac{1}{4}$ sec. cor. mkd. on brass cap, 3 3/8 in W. & 1 9/14 in S. half;

& raise hd. of stone 2 ft. base, 1 ft. high W. of cor. Pits imprac. Cross wash; 15 lks. wide; course SE. and overrolling land, through scattering brush.

44.50 Cross road, brs. E. and W. brush.

87.37 The cor. of Ts. 4 and 5 S., R. 9 W., an iron post with brass cap, marked and witnessed as described by the Surveyor Gen.

88.00 Note: I destroy all traces of the $\frac{1}{4}$ sec. cor. as originally established.

Land, level and mountainous.

Soil, S. 10.00 chs. rich sandy loam, dry, medium texture;

1st. rate: Middle 33.50 chs. sandy loam, covered with

gravel and rocks; 4th. rate. N. 44.50 chs. volcanic rock;

4th. rate.

No timber.

Undergrowth, chico, mesquite and greasewood.

June 25, 1914.

North boundary of Tp. 4 S. Rg. 9 W.

Chains.

June 23: At 7h. 00m. a.m., l.m.t., I set off $33^{\circ}07' N.$ on the lat. arc; $25^{\circ}20' N.$ on the decl. arc; and determine a meridian with the solar at the cor. of Tps. 3 and 4 S. Rgs. 9 and 10 W. recently established by Jesse B. Wright, U. S. Surveyor.

Thence I run

East on a random line along the N. bdy. of Tp. 4 S. Rg. 9 W., setting comp. g sec. and sec. lines at intervals of 40.00 chs.; and, at 480.90 chs. intersect the N. bdy. of Tp. at the cor. of Tps. 3 and 4 S. Rg. 9 W. previously described.

June 23, 1914.

June 26, 1914: At 7h. 00m. a.m., l.m.t., I set off $33^{\circ}07' N.$ on the latitude arc; $23^{\circ}24\frac{1}{2}' N.$ on the decl. arc; and determine a meridian with the solar at the cor. of Ts. 3 and 4 S., R. 9 W., hereinbefore described.

Having found the true length of the north bdy. of T. 4 S. R. 9 W. to be 480.90 chs., as hereinbefore described, I run,

West bet. secs. 1 and 36, marking and blazing true line. Over rolling land, through dense brush.

40.00 Set an iron post 3 ft. long, 1 in. diam., 26 ins. in the ground for $\frac{1}{4}$ sec. cor., marked on brass cap $\frac{1}{4}$ S36 in N. and S1 1914 in S. half; and raise a mound of stone 2 ft. base $1\frac{1}{2}$ ft. high, N. of cor. Pits impracticable.

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

T3S in N.
T4S 1914 in S. and
R9W in W. half;
S35 in N. W.
S36 in N. E.
S1 in S. E. and
S2 in S. W. quadrant; and raise a mound of stone 2 ft. base $1\frac{1}{2}$ ft. high, W. of cor. Pits impracticable.

Land, rolling.
Soil, rocky; 4th. rate.
No timber.
Undergrowth, greasewood and paloverde.

West bet. secs. 2 and 35. Over rolling land, through dense brush.

23.50 Cross wash 10 lks. wide course S.

40.00 Set an iron post 3 ft. long, 1 in. diam., 26 ins. in the ground for $\frac{1}{4}$ sec. cor., marked on brass cap $\frac{1}{4}$ S35 in N. and S2 1914 in S. half; and raise a mound of stone 2 ft. base $1\frac{1}{2}$ ft. high, N. of cor. Pits impracticable.

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

T3S in N.
T4S 1914 in S. and
R9W in W. half;
S34 in N. W.
S35 in N. E.
S2 in S. E. and
S3 in S. W. quadrant; and raise a mound of stone 2 ft. base $1\frac{1}{2}$ ft. high, W. of cor. Pits impracticable.

Land, rolling.
Soil, rocky; 4th. rate.
No timber.
Undergrowth, greasewood and paloverde.

North boundary of Tp. 4 S. Rg. 9 W.

Chains.	
	West bet. secs. 3 and 34.
	Over rolling land, through dense brush.
12.00	Ascend, leave brush.
21.40	Ridge bears N. and S. descend.
24.40	Over rolling land, through dense brush.
40.00	Set an iron post 3 ft. long, 1 in. diam., 26 ins. in the ground for $\frac{1}{4}$ sec. cor., marked on brass cap $\frac{1}{4}$ S34 in N. and S3 1914 in S. half; and raise a mound of stone 2 ft. base $1\frac{1}{2}$ ft. high, N. of cor. Pits impracticable.
59.00	Ascend, leave brush.
80.00	Set an iron post 3 ft. long, 3 ins. diam., 24 ins. in the ground for cor. of secs. 3, 4, 33 and 34, marked on brass cap
	T3S in N.
	T4S 1914 in S. and
	R9W in W. half;
	S33 in N. W.
	S34 in N. E.
	S3 in S. E. and
	S4 in S. W. quadrant; and raise a mound of stone 2 ft. base $1\frac{1}{2}$ ft. high, W. of cor. Pits impracticable.
	Land, mountainous and rolling.
	Soil, rocky; 4th. rate.
	No timber.
	Undergrowth, greasewood and palo verde.
Note:	June 26: At this cor. I set off $23^{\circ} 23'$ N. on the decl. arc; and observe the sun on the meridian at noon; the resulting lat. is $33^{\circ} 07'$ N.

	West bet. secs. 4 and 33.
	Ascend.
15.00	Ridge bears N. W. and S. E. descend.
40.00	Set an iron post 3 ft. long, 1 in. diam., 26 ins. in the ground for $\frac{1}{4}$ sec. cor., marked on brass cap $\frac{1}{4}$ S33 in N. and S4 1914 in S. half; and raise a mound of stone 2 ft. base $1\frac{1}{2}$ ft. high, N. of cor. Pits impracticable.
44.00	Over rolling land, through dense brush.
56.00	Cross wash 15 lks. wide course S.
79.75	Ascend, leave brush.
80.00	Set an iron post 3 ft. long, 3 ins. diam., 24 ins. in the ground for cor. of secs. 4, 5, 32 and 33, marked on brass cap
	T3S in N.
	T4S 1914 in S. and
	R9W in W. half;
	S32 in N. W.
	S33 in N. E.
	S4 in S. E. and
	S5 in S. W. quadrant; and raise a mound of stone 2 ft. base $1\frac{1}{2}$ ft. high, W. of cor. Pits impracticable.
	Land, rolling and mountainous.
	Soil, rocky; 4th. rate.
	No timber.
	Undergrowth, greasewood and palo verde.

	West bet. secs. 5 and 32.
	Ascend.
14.50	Ridge bears N. and S. descend.
25.25	Over rolling land, through dense brush.
40.00	Set an iron post 3 ft. long, 1 in. diam., 26 ins. in the ground for $\frac{1}{4}$ sec. cor., marked on brass cap $\frac{1}{4}$ S32 in N. and S5 1914 in S. half; from which
	A palo verde 5 ins. diam., bears S. 34° E. 148 lks. dist., marked $\frac{1}{4}$ S5BT.
	No other bearing available. Raise a mound of stone 2 ft. base $1\frac{1}{2}$ ft. high, N. of cor. Pits impracticable.

North boundary of Tp. 4 S. Rg. 9 W.

Chains
 54.90 Cross wash 15 lks. wide course S. E.
 80.00 Set an iron post 3 ft. long, 3 ins. diam., 24 ins. in the ground for cor. of secs. 5, 6, 31 and 32, marked on brass cap
 T3S in N.
 T4S 1914 in S. and
 R9W in W. half;
 S31 in N. W.
 S32 in N. E.
 S5 in S. E. and
 S6 in S. W. quadrant; and raise a mound of stone 2 ft. base 1½ ft. high, W. of cor. Pits impracticable.
 Land, rolling and mountainous.
 Soil, rocky; 4th. rate.
 No timber.
 Undergrowth, greasewood and paloverde.

West bet. secs. 6 and 31.
 Over level land, through dense brush.
 38.50 Cross wash 50 lks. wide course S. E.
 40.00 Set an iron post 3 ft. long, 1 in. diam., 26 ins. in the ground for ¼ sec. cor., marked on brass cap ¼S31 in N. and S6 1914 in S. half; from which
 A paloverde 4 ins. diam., bears N. 38° W. 105 lks. dist., marked ¼S31BT
 A paloverde 6 ins. diam., bears S. 52° W. 190 lks. dist., marked ¼S6BT.
 63.00 Cross wash 10 lks. wide course S. E.
 79.00 Cross wash 50 lks. wide course S.
 80.90 The cor. of Tps. 3 and 4 S. Rgs. 9 and 10 W., as described in Book "A."
 Land, level.
 Soil, rocky; 4th. rate.
 No timber.
 Undergrowth, greasewood and paloverde.

June 26, 1914.

Boundaries of Tp. 4 S. Rg. 9 W.
 Latitudes, departures and closing errors.

Line designated.	True bearing.	Distance	Latitudes		Departures.	
			N.	S.	E.	W.
South boundary	N. 89° 07' W.	39.93	.62			39.92
	N. 89° 10' W.	39.89	.58			39.89
	N. 89° 02' W.	40.13	.68			40.12
	N. 89° 09' W.	39.41	.59			39.41
	N. 89° 11' W.	40.19	.57			40.19
	N. 89° 03' W.	40.24	.66			40.23
	N. 89° 06' W.	80.41	1.26			80.40
	N. 89° 02' W.	80.50	1.35			80.49
	N. 88° 57' W.	40.24	.74			40.23
	N. 89° 08' W.	40.32	.63			40.31
W. West Boundary	North.	480.00	480.00			
N. North Boundary	East.	480.90			480.90	
E. East Boundary	South.	488.00		488.00		
Convergency.					.47	
Totals.			487.68	488.00	481.37	481.19
Error in lat.			0.32			
Error in Dep.					0.18	

North boundary of Tp. 4 S. Rg. 9 W.

Chains.

General Description.

The eastern part of this township is rough and mountainous and the western part is rolling and level, and covered with dense brush. There is no water or timber in the township.

John P. Hesse
U. S. Surveyor

Pages 72 Thru
90 do not exist,

CERTIFICATE OF ASSISTANTS.

We, the undersigned, hereby certify upon honor that we assisted, to the best of our skill and ability,
John F. Hesse

....., U. S. Surveyor, during the periods and in the capacities
stated opposite our several signatures, in surveying under instructions for Group 32
Arizona, all those parts or portions of the South & West bdrs. of
Ts. 1 S., Rs. 6, 7, 9 & 10 W., the West, East & North bdrs. of T. 2 N.,
R. 6 W., the West bdy. of T. 2 N., R. 9 W., the East & West bdrs. of
T. 4 N., R. 11 W., the East & North bdrs. of Ts. 4 S., Rs. 9 & 11 W. and
the North boundary of T. 4 S., R. 12 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 him, and under his direc-
tion; and that said survey has been, in all respects, to the best of our knowledge and belief, well and
faithfully executed.

NAME.	PERIOD OF SERVICE.		CAPACITY.
	BEGUN.	ENDED.	
<i>F. E. Agers.</i>	February 4, 1914	July 10, 1914	Chainman.
<i>Albert W. Standa</i>	February 2, 1914	July 10, 1914	Chainman
<i>E. W. Horoughs</i>	February 2, 1914	June 19, 1914	Flagman, Axman, Chainman.
<i>Joseph W. Standa</i>	February 6, 1914	July 10, 1914	Flagman Axman.
<i>Russell Bebbint.</i>	February 4, 1914	July 10, 1914	Cornerman.
<i>Watson Rickell</i>	June 22, 1914	July 10, 1914	Axman Chainman.

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

John F. Hesse
U. S. Surveyor.

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FINAL OATH OF UNITED STATES SURVEYOR.

I, John F. Hesse, U. S. Surveyor, do solemnly swear that, in pursuance of special instructions received from the U. S. Surveyor General for Arizona for Group 32 dated October 21, 1913 & February 10, 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 South & West bdrs. of Ts. 1 S., Rs. 6, 7, 9 & 10 West, the West, East & North bdrs. of T. 2 N., R. 6 W., the West bdy. of T. 2 N., R. 9 W., the East & West bdrs. of T. 4 N., R. 11 W., the East & North bdrs. of Ts. 4 S., Rs. 9 & 11 W., and the North bdy. of T. 4 S., R. 12 W. of the Gila and Salt River ^{Base and} Meridian, in the State of Arizona, which are represented in the foregoing field notes as having been executed by me, and under my direction; and I do further solemnly swear that all the corners of said survey have been established and perpetuated in strict accordance with the Manual of Surveying Instructions, and the special written instructions of the U. S. Surveyor General for Arizona for Group 32 and in the specific manner described in the field notes, and that the foregoing are the original field notes of such survey.

John F. Hesse
U. S. Surveyor.

Subscribed by said John F. Hesse, and sworn to before me }
this 30th day of September, 1914 }

Frank S. Ingalls
Surveyor General of Arizona



APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,
Phoenix Arizona Aug 27, 1915

The foregoing field notes of the survey of the South & West bdrs. of Ts. 1 S., Rs. 6, 7, 9, & 10 W., the West, East & North bdrs. of T. 2 N., R. 6 W., the West bdy. of T. 2 N., R. 9 W., the East & West bdrs. of T. 4 N., R. 11 W., the East & North bdrs. of Ts. 4 S., Rs. 9 & 11 W. and the North boundary of T. 4 S., R. 12 W. of the Gila & Salt River Base & Meridian in the State of Arizona

executed by John F. Hesse U.S. Surveyor under his special instructions dated Oct. 21, 1913 & Feb. 10, 1914 for Group 32, having been critically examined, and the necessary corrections and explanations made, the said field notes, and the surveys they describe, are hereby approved.

Frank S. Ingalls
Surveyor General of Arizona.

~~I certify that the foregoing transcript of the field notes of the above described surveys in _____, has been correctly copied from the original notes on file in this office.~~