

BOOK "A"

BOOK 2791

Exteriors

FIELD NOTES

OF THE SURVEY OF THE

East, West and North boundaries of	Tp. 1	N., R. 6	W.
West " North " "	Tp. 1	N., R. 7	W.
West " North " "	Tp. 2	N., R. 7	W.
West " North " "	Tp. 1	N., R. 8	W.
West " North " "	Tp. 2	N., R. 8	W.
West " North " "	Tp. 1	N., R. 9	W.
West " North " "	Tp. 1	N., R. 10	W.
North boundary "	Tp. 2	N., R. 9	W.
West and North boundaries "	Tp. 2	N., R. 10	W.
East, West " North " "	Tp. 3	N., R. 10	W.
South, West " North " "	Tp. 3	N., R. 11	W.
South " West " " "	Tp. 1	S., R. 8	W.
East " North boundary "	Tp. 4	S., R. 12	W.
East and North boundaries of	Tp. 4	S., R. 10	W. and the
East " North " "	Tp. 4	S., R. 8	W.

Of the Gila and Salt River Base and Meridian,

In the State of ARIZONA

EXECUTED BY

JESSE B. WRIGHT

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

November 21, 1913 and

Office, February 20, 1914, pursuant to authority contained in the Act of

Congress dated June 23, 1913 and August 1, 1914.

Survey commenced February 11, 1914

Survey completed July 6, 1914

INDEX DIAGRAM.

Township _____, Range _____

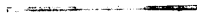





6	5	4	3	2	1
7	8	9	10	11	12
18	17	16	15	14	13
19	20	21	22	23	24
30	29	28	27	26	25
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Book "A"

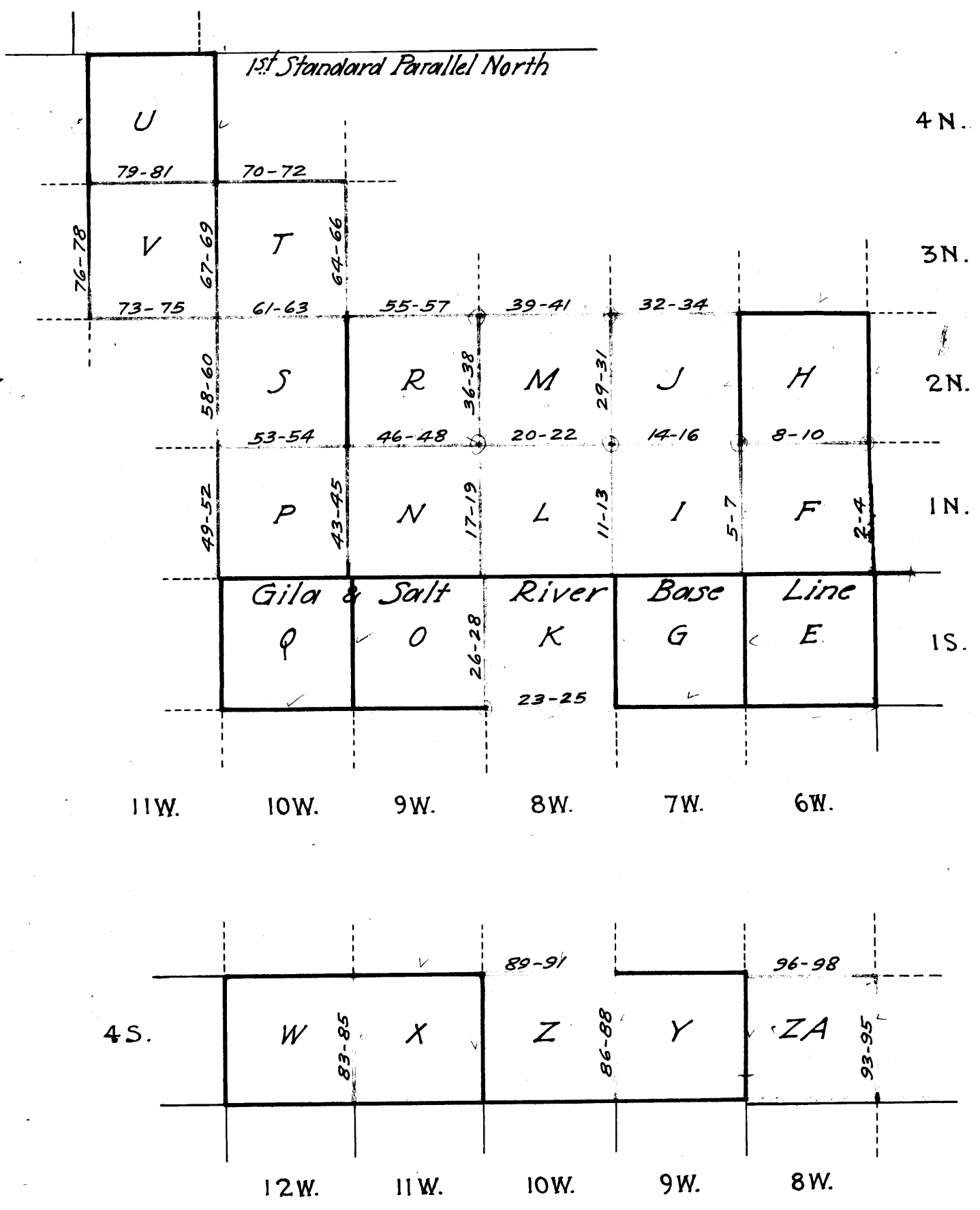
INDEX DIAGRAM

BOOK 2791

Group 32

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Red letters indicate Subdivisional Books



13

BUREAU OF LAND SURVEY

Group No. 32, Arizona.

Description, field tests of instruments, etc.

Surveys under Group No. 32, Ariz. executed by Jesse B. Wright, and John F. Hesse, U. S. Surveyors, using Young & Son's light mountain transits Nos. 7084 and 8588, respectively, with transit No. 6860 as auxiliary instrument, all instruments being provided with Smith patent solar attachment on side. The horizontal limbs of the instruments are provided with two double verniers, placed opposite to each other, and reading to single minutes of arc, which is also the least reading of the verniers of the latitude and declination arcs.

We examine the adjustments of the transits, and correct the level and collimation errors. We also test the lat. arcs of the solars, and find same correct; then, to test the solar apparatus, by comparing their indications, resulting from solar observations made during p.m. & a.m. hours, with a true meridian determined by observations on Polaris, we proceed as follows: - Feb. 6, 1914, At 4h p.m., l.m.t., at the cor. of Tps. 1 & 2 S., Rs. 5 & 6 W., lat. 33°17'20" N., long. 112°49'31" W., which is an old post, marked and witnessed as described by the Surveyor General, (subsequently replaced by an iron post), We set off 33°17'2" N. on the lat. arcs, and 15°36' S. on the declination arcs, and determine meridians with the solars, and mark points thereon by tacks in a stake driven firmly in the ground 5 chs. N. of our station, points marked A, B & C, for transits 7084, 8588, and 6860 respectively.

At 10h 20m p.m., l.m.t., we observe Polaris at western elongation, in accordance with Manual of Instructions, and mark the line thus determined by a tack in a stake driven firmly in the ground 6 chs. N. of our station. Feb. 6, 1914.

Feb. 7, 1914.

At 8h a.m., l.m.t., we lay off the azimuth of Polaris, 1°22½' to the east, and mark the true meridian thus determined by a tack in the stake 5 chs. N. of our station, which point marked "P" falls .40 ins. E., .30 ins. W., and .50 ins. W. respectively, of points A, B & C, as above noted.

Then we set off 33°17½' N. on the lat. arcs, and 15°24' S. on the decl. arcs, and determine meridians with the solars, and mark points thereon by tacks driven in the stake 5 chs. N. of our station, points marked a, b & c, for transits 7085, 8588 and 6860, respectively, which points fall .20 ins. E., .20 ins. W., and .95 ins. W. respectively of of the point "P" on the true meridian as determined by observation of Polaris.

From these observations made during p.m. & a.m. hours we deduce that the solar apparatus give results as follows: -

- 7084 defines positions for meridians about 0'21" W., and 0'10" E. of meridian established by Polaris observation.
- 8588 defines positions for meridians about 0'16" E., and 0'10" W. of meridian established by Polaris observation.
- 6860 defines positions for meridians about 0'26" E., and 0'50" W. of meridian established by Polaris observation.

From these observations we conclude that the instruments are in satisfactory adjustment, but continue our solar observations until noon, noting that the results are practically uniform, with the exception of an index error of +1' to be applied to the declination arc of transit No. 6860.

The magnetic bearing of the true meridian at 8h a.m. is N. 14° W.; the angle thus determined gives the magnetic declination as 14° E.

At noon, we set off 15°22' S. on the decl. arcs, and observe the sun on the meridian.

The resulting latitudes are 33°17', 33°17', and 33°16' N. respectively of transits 7084, 8588, and 6860.

Feb. 7, 1914.

- Chains. Survey of Exterior brs. by Jesse B. Wright, U.S. Surveyor, under instructions for Group 32, Arizona, commenced Feb. 11, 1914 and executed with a Young & Son's light mountain transit No. 7084 hereinbefore described. At Phoenix, 1 m. S. at intersection of T. 1 N. & R. 5 & 6 W., established by me as described in book "D" I set off $14^{\circ}07'$ S. on the decl. arc, and $33^{\circ}22\frac{1}{2}'$ N. on the lat. arc, and determine a meridian with the solar. Thence I run, as per instructions, var. $14^{\circ}10'$ E., North, on range line, bet. secs. 31 & 36.
Over gently rolling land, through dense greasewood, sage brush, few cacti, soil, sandy loam.
- 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 W., and
S 31 in E. half, 1914 on S. rim,
dig pits $18 \times 18 \times 12$ ins. N. & S. of cor. 3 ft. dist., and raise amound of earth $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high W. of cor. No bearings available.
- 45.00 Windmill of Flower Pot Cattle Co. brs. West, 1 ch. dist.,
50.00 Enter draw, course SE.
60.00 Leave draw.
- 80.00 Set an iron post 3 ft. long, $\frac{3}{8}$ ins. in diam. 24 ins. in the ground for cor. of secs. 25, 30, 31 & 36, marked on brass cap, T 1 N in N. half,
1914 on S. rim,
R 6 W S 25 in NW.,
R 5 W S 30 in NE.,
S 31 in SE., and
S 36 in SW. quad.; no bearings available.
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, 2nd rate, sandy, loamy, dry.
Greasewood, scrub mesquite, sage brush, few cacti.

North, bet. secs. 25 & 30.

- 31&56 Road, brs. NW. & SE.
- 40.00 Set an iron post 3 ft. long, 1 in. in diam. 26 ins. in the ground for $\frac{1}{4}$ sec. cor., marked on brass cap,
 $\frac{1}{4}$ S 25 in W., and
S 30 in E. half, 1914 on S. rim,
dig pits $18 \times 18 \times 12$ ins. N. & S. of cor. 3 ft. dist., and raise a mound of earth $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high W. of cor.
- 80.00 Set an iron post 3 ft. long, $\frac{3}{8}$ ins. in diam. 24 ins. in the ground for cor. of secs. 19, 24, 25 & 30, marked on brass cap, 1914 on S. rim,
T 1 N in N. half,
R 6 W S 24 in NW.,
R 5 W S 19 in NE.,
S 30 in SE., and
S 25 in SW. quad.;
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, gently, rolling.
Soil, 2nd rate, sandy, gravelly, some clay.
Greasewood, sage brush, some scrub mesquite.
-

Chains.

North, bet. secs. 19 & 24.
 Over rolling 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 24 in W., and S 19 in E. half, 1914 on S. rim; dig pits 18x18x12 ins. N. & S. of cor. 3 ft. dist., and raise a mound of earth $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high W. of cor.
 53.00 Dim road, brs. NNW. & SSE.
 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 & 24, marked on brass cap, 1914 on S. rim, T 1 N in N. half, R 6 W S 13 in NW., R 5 W S 18 in NE., S 19 in SE., and S 24 in SW. quad.; dig pits 18x18x12 ins. in each sec. $5\frac{1}{2}$ ft. dist., and raise a mound of earth 4 ft. base 2 ft. high W. of cor.
 Land, level, gently rolling.
 Soil, 2nd rate, dry, sandy, gravelly, loose.
 Greasewood, sage brush.
 Note: At this cor., at noon, I set off $14^{\circ}05'$ S. on the decl. arc, and observed the sun on the meridian. The resulting lat. is $33^{\circ}25'$ N.

North, bet. secs. 13 & 18.
 Over rolling 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 13 in W., and S 18 in E. half, 1914 on S. rim; dig pits 18x18x12 ins. N. & S. of cor. 3 ft. dist., and raise a mound of earth $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high W. of cor.
 64.80 Wash, 60 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. 7, 12, 13 & 18, marked on brass cap, 1914 on S. rim, T 1 N in N. half, R 6 W S 12 in NW., R 5 W S 7 in NE., S 18 in SE., and S 13 in SW. quad.; from which, A paloverde tree 6 ins. diam. brs. N. 62° W. 39 lks. dist., marked T 1 N R 6 W S 12 B T. A paloverde tree 6 ins. diam. brs. S. 83° W. 49 lks. dist., marked T 1 N R 6 W S 13 B T. No other trees available. Dig pits 18x18x12 ins. in each sec. $5\frac{1}{2}$ ft. dist., and raise a mound of earth 4 ft. base 2 ft. high W. of cor.
 Land, rolling.
 Soil, 2nd rate, sandy, gravelly, dry.
 Greasewood, scrub mesquite, paloverde, sage brush.

Chains.

- North, bet. secs. 7 & 12.
Over gently rolling land, along E. side of draw, through dense paloverde and mesquite, and ironwood.
- 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 12 in W., and
S 7 in E. half, 1914 on S. rim, from which,
An ironwood tree 9 ins. diam. brs. S. 3° E. 162 lks. dist., marked $\frac{1}{4}$ S 7 B T.
An ironwood tree 8 ins. diam. brs. N. 89° W. 102 lks. dist., marked $\frac{1}{4}$ S 12 B T.
- 71.84 Wash, 12 lks. wide, course WSW.
Leave trees.
- 80.00 Set an iron post 3 ft. long, 3 ins. in diam. 24 ins. in the ground for cor. of secs. 1, 6, 7 & 12, marked on brass cap, 1914 on S. rim,
T 1 N in N. half,
R 6 W S 1 in NW.,
R 5 W S 6 in NE.,
S 7 in SE., and
S 12 in SW. quad.; no trees available.
Dig pits 18x18x12 ins. in each sec. $5\frac{1}{2}$ ft. dist., and raise a mound of earth $\frac{1}{4}$ ft. base 2 ft. high W. of cor.
Land, gently rolling.
Soil, 2nd rate, sandy, loose, dry.
Greasewood, paloverde, mesquite, ironwood, sage brush.

- North, bet. secs. 1 & 6.
Over nearly level land, drains S., along E. side of wooded draw, through dense, high brush.
- 31.69 Wash, 30 lks. wide, course SSW., middle of draw.
- 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., and
S 6 in E. half,
1914 on S. rim, from which;
A paloverde tree 12 ins. diam. brs. S. $3\frac{1}{2}^{\circ}$ E. 198 lks. dist., marked $\frac{1}{4}$ S 6 B T.
A paloverde tree 12 ins. diam. brs. S. 65° W. 145 lks. dist., marked $\frac{1}{4}$ S 1 B T.
Thence along W. side of draw.
- 55.00 Leave trees to East.
- 80.00 Set an iron post 3 ft. long, 3 ins. in diam. 24 ins. in the ground for cor. of Tps. 1 & 2 N., Rs. 5 & 6 W., marked on brass cap,
1914 on S. rim,
T 2 N in N.,
T 1 N in S.,
R 5 W in E., and
R 6 W in W. half,
S 36 in NW.,
S 31 in NE.,
S 6 in SE., and
S 1 in SW. quad.; no trees available.
dig pits 24x24x12 ins. on each line, N., E. & W. 4 ft., and S. of cor. 8 ft. dist., and raise a mound of earth 5 ft. base $2\frac{1}{2}$ ft. high S. of cor.
From this cor.,
E. edge of high bluff on mts. about 20 miles to S. brs. S. $10^{\circ}13'$ W.
Highest peak in White Tank Mts. brs. N. $60^{\circ}46'$ E.
Magnetic var. at this cor. $14^{\circ}05'$ E.
Land, nearly level, drains to S.
Soil, 1st rate, sandy loam.
Greasewood; paloverde, mesquite and ironwood in draw.
Feb. 11, 1914.

Chains.

Feb. 12, 1914.
At 8h a.m., l.m.t., at the Std. cor. of Tps. 1 N., Rs. 6 & 7 W., (on the G. & S. R. Base Line) contab. by me, as described in book "C."

I set off 33°22½' N. on the lat. arc, and 13°48' S. on the decl. arc, and determine a meridian with the solar. Thence I run, as per instructions, Var. 14° E.

North, on range line, bet. secs. 31 & 36.

Over mts. land, asc. prec. SW. slope.

- 2.95 Top of spur, brs. W. & E., thence along W. slope.
- 6.00 Ridge, brs. NW. & SE., desc. NE. slope, steep, stony.
- 12.00 Foot, brs. NW. & SE., thence along gentle ENE. slope.
- 30.00 Foot of slope, brs. NW. & SE.
- 39.15 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 36 in W., and

S 31 in E. half, 1914 on S. rim, from which,

An ironwood tree 8 ins. diam. brs. N. 49° W. 120 lks. dist., marked ¼ S 36 B T.

An ironwood tree 15 ins. diam. brs. S. 41° E. 109 lks. dist., marked ¼ S 31 B T.

- 50.00 Asc. SE. slope.
- 73.50 Top of E. slope of hill, near E. end
- 78.00 Desc. NE. slope.
- 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 & 36, marked on brass cap, 1914 on S. rim,

T 1 N in N. half,
R 7 W S 25 in NW.,
R 6 W S 30 in NE.,
S 31 in SE., and
S 36 in SW. quad.; pits impracticable.

raise a mound of stone 2 ft. base, 1½ ft. high W. of cor. Land, mts., broken.

Soil, 3rd rate, stony, gravelly, dry. Paloverde, greasewood, ironwood, sage brush, cacti.

North, bet. secs. 25 & 30.

Over mts. land, desc. NE. slope., through dense brush. 8.45 Gulch, 15 lks. wide, course SE., asc. grad. along E. slope.

- 36.00 Spur, brs. E. & W., near E. end, desc.
- 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., and
S 30 in E. half,

1914 on S. rim, from which,

A paloverde tree 8 ins. diam. brs. N. 41° W. 229 lks. dist., marked ¼ S 25 B T.

A paloverde tree 5 ins. diam. brs. S. 39° E. 49 lks. dist., marked ¼ S 30 B T.

- 44.60 Wash, 15 lks. wide, course ESE.
- 56.00 Wash, 50 lks. wide, course E.
- 80.00 Point for cor. of secs. 19, 24, 25 & 30, falls in wash, 30 lks. wide, course ESE.

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

1914 on S. rim,
W C S. of centre,
T 1 N in N. half,
R 7 W S 24 in NW.,
R 6 W S 19 in NE.,
S 30 in SE., and
S 25 in SW. quad.; from which,

A paloverde tree 6 ins. diam. brs. N. 64½° W. 145 lks. dist., marked T 1 N R 7 W S 24 W C B T.

A paloverde tree 6 ins. diam. brs. N. 25° E. 25 lks. dist., marked T 1 N R 6 W S 19 W C B T.

No other bearings available. raise a mound of stone 2 ft. base, 1½ ft. high W. of cor. Pits impracticable. Land, mts., rolling. Soil, 3rd rate, stony. Paloverde, sage.

- Chains. From the cor. point of secs. 19, 24, 25 & 30, I run,
~~N. bet. secs. 19 and 24. Over heavily rolling land, through dense brush.~~
 0.50 Witness cor. to cor. of secs. 19, 24, 25 and 30. (brush)
 19.00 Top of W. side of hill, brs. W. & E., desc.
 24.90 Foot, brs. E. & W., desc. grad.
 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 24 in W., and
 S 19 in E. half,
 1914 on S. rim, ~~Pfts impracticable.~~
 Raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high W. of cor.
 41.95 Wash, 20 lks. wide, course E.
 55.30 Wash, 15 lks. wide, course SE.
 62.65 Wash, 25 lks. wide, course SE.
 65.00 Asc.
 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 & 24, marked on
 brass cap, 1914 on S. rim,
 T 1 N in N. half,
 R 7 W S 13 in NW.,
 R 6 W S 18 in NE.,
 S 19 in SE., and
 S 24 in SW. quad.; from which,
 A paloverde tree 16 ins. diam. brs. N. 14° W. 390 lks. dist.,
 marked T 1 N R 7 W S 13 B T.
 A paloverde tree 12 ins. diam. brs. N. 15° E. 220 lks. dist.,
 marked T 1 N R 6 W S 18 B T.
 A paloverde tree 8 ins. diam. brs. S. 51° E. 105 lks. dist.,
 marked T 1 N R 6 W S 19 B T.
 A paloverde tree 14 ins. diam. brs. S. $89\frac{1}{2}^{\circ}$ W. 49 lks. dist.,
 marked T 1 N R 7 W S 24 B T.
 Land, rolling, broken.
 Soil, 3rd rate, gravelly, stony, dry.
 Paloverde, ironwood, greasewood, sage brush, few cacti.
 Note At this cor., at noon, I set off $13^{\circ}45\frac{1}{2}'$ S. on the decl.
 arc, and observe the sun on the meridian.
 The resulting lat. is $33^{\circ}25'$ N.

- North, bet. secs. 13 & 18.
 Over mts. land, asc.
 3.00 Top of W. side of hill, brs. W. & E., desc.
 20.00 Foot, brs. ENE. & WSW.
 40.00 Point for $\frac{1}{4}$ sec. cor. falls in wash, 20 lks. wide, course
 ENE, therefore at
 40.60 Set an iron post 3 ft. long, 1 in. in diam. 26 ins. in
 the ground for witness cor. to $\frac{1}{4}$ sec. cor., marked on
 brass cap, 1914 on S. rim,
 W C $\frac{1}{4}$ in S. half,
 S 13 in NW., and
 S 18 in NE. quad.; ~~Pfts impracticable.~~
 raise a mound of stone 2 ft. base, $1\frac{1}{2}$ 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. 7, 12, 13 & 18, marked on
 brass cap, 1914 on S. rim,
 T 1 N in N. half,
 R 7 W S 12 in NW.,
 R 6 W S 7 in NE.,
 S 18 in SE., & S 13 in SW. quad.; from which,
 A catclaw tree 10 ins. diam. brs. N. 30° W. 60 lks. dist.,
 marked T 1 N R 7 W S 12 B T.
 A catclaw tree 8 ins. diam. brs. N. $14\frac{1}{2}^{\circ}$ E. 74 lks. dist.,
 marked T 1 N R 6 W S 7 B T.
 A mesquite tree 12 ins. diam. brs. S. 49° E. 192 lks. dist.,
 marked T 1 N R 6 W S 18 B T.
 A mesquite tree 7 ins. diam. brs. S. $89\frac{1}{4}^{\circ}$ W. 146 lks. dist.,
 marked T 1 N R 7 W S 13 B T.
 Land, rolling.
 Soil, 2nd & 3rd rate, gravelly, sandy, dry, loose.
 Mesquite, catclaw, greasewood, paloverde, few cacti.

Chains.

North, bet. secs. 7 & 12.

Over rolling land, through dense brush.

20.70 Wash, 20 lks. wide, course ESE.

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 12 in W., and

S 7 in E. half,

1914 on S. rim; no bearings available;

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

75.30 Wash, 15 lks. wide, course ESE.

80.00 Set an iron post 3 ft. long, 3 ins. in diam. 24 ins. in the ground for cor. of secs. 1, 6, 7 & 12, marked on brass cap, 1914 on S. rim,

T 1 N in N. half,

R 7 W S 1 in NW.,

R 6 W S 6 in NE.,

S 7 in SE., and

S 12 in SW. quad.; no bearings available;

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

Land, rolling.

Soil, 2nd & 3rd rate, sandy, gravelly, loose. dry.

Greasewood, paloverde, mesquite, sage brush.

North, bet. secs. 1 & 6.

Over gently undulating valley, through scattering brush.

0.50 Road, brs. NW. & SE., Phoenix to Harrisburg & Wenden.

4.40 Wash, 20 lks. wide, course SE.

10.10 Wash, 80 lks. wide, course SE.

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

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

S 6 in E. half,

1914 on S. rim; no bearings available;

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

52.00 Wash, 35 lks. wide, course SE.

75.70 Road, brs. NW. & SE.

80.00 Set an iron post 3 ft. long, 3 ins. in diam. 24 ins. in the ground for cor. of Tps. 1 & 2 N., Rs. 6 & 7 W., marked on brass cap,

1914 on S. rim,

T 2 N in N.,

T 1 N in S.,

R 6 W in E., and

R 7 W in W. half,

S 36 in NW.,

S 31 in NE.,

S 6 in SE., and

S 1 in SW. quad.; from which,

A mesquite tree 6 ins. diam. brs. N. $85\frac{1}{4}^{\circ}$ W. 79 lks. dist., marked T 2 N R 7 W S 36 B T.

No other trees available.

Dig pits 24x24x12 ins. on each line, E., W. & N. 4 ft., and S. of cor. 8 ft. dist., and raise a mound of earth 5 ft. base $2\frac{1}{2}$ ft. high S. of cor.

Buckhorn peak brs. N. $52^{\circ}52'$ W., about 20 miles dist.

Windmill of E. H. Winters brs. N. $5^{\circ}02'$ W.

Highest peak in White Tank Mts. brs. N. $68^{\circ}39'$ E.

Highest peak in Maricopa Range brs. S. $70^{\circ}35'$ E.

Land, rolling, level.

Soil, 2nd rate, sandy, loamy, loose, dry.

Mesquite, paloverde, greasewood, sage brush.

Feb. 12, 1914.

- Chains. Feb. 13, 1914.
 At 8h a.m., l.m.t., at the cor. of Tps. 1 & 2 N., Rs. 5 & 6 W., recently established by me, and ~~hereinbefore~~ described,
 I set off $33^{\circ}28'$ N. on the lat. arc, and $13^{\circ}27\frac{1}{2}'$ S. on the decl. arc, and determine a meridian with the solar. Thence I run, as per instructions,
 West, on a random line, on N. bdy. of Tp. 1 N., R. 6 W.
 At 5 miles, 79.62 chs., the cor. of Tps. 1 & 2 N., Rs. 6 & 7 W. ~~hereinbefore desc.~~ ~~brs. S. 14 lks. dist.~~ are described, whence I run, on a true line,
 N. $89^{\circ}59'$ E. bet. secs. 6 & 31.
 Over rolling land, through scattering brush.
- 23.60 Wash, 80 lks. wide, course S.
 25.40 Wash, 80 lks. wide, course S.
 39.62 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,
 1914 on S. rim,
 $\frac{1}{4}$ S 31 in N., and
 S 6 in S. half, no bearings available;
 dig pits 18x18x12 ins. E. & W. of cor. 3 ft. dist., and raise a mound of earth $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high N. of cor.
- 79.62 Set an iron post 3 ft. long, 3 ins. in diam. 24 ins. in the ground for cor. of secs. 5, 6, 31 & 32, marked on brass cap, 1914 on S. rim,
 T 2 N in N.,
 T 1 N in S., and
 R 6 W in W. half,
 S 31 in NW.,
 S 32 in NE.,
 S 5 in SE., and
 S 6 in SW. quad.; no bearings available;
 dig pits 18x18x12 ins. in each sec. $5\frac{1}{2}$ ft. dist., and raise a mound of earth 4 ft. base 2 ft. high W. of cor.
 Land, level, gently rolling.
 Soil, 2nd rate, sandy; loamy, dry.
 Greasewood, sage brush.
-
- N. $89^{\circ}59'$ E. bet. secs. 5 & 32.
 Over gently rolling land, through dense greasewood.
- 26.80 Wash, 30 lks. wide, course S.
 40.00 Set an iron post 3 ft. long, 1 ins. in diam. 26 ins. in the ground for $\frac{1}{4}$ sec. cor., marked on brass cap,
 $\frac{1}{4}$ S 32 in N., and
 S 5 in S. half,
 1914 on S. rim;
 dig pits 18x18x12 ins. E. & W. of cor. 3 ft. dist., and raise a mound of earth $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high N. of cor.
- 80.00 Set an iron post 3 ft. long, 3 ins. in diam. 24 ins. in the ground for cor. of secs. 4, 5, 32 & 33, marked on brass cap, 1914 on S. rim,
 T 2 N in N.,
 T 1 N in S., and
 R 6 W in W. half,
 S 32 in NW.,
 S 33 in NE.,
 S 4 in SE., and
 S 5 in SW. quad.; no bearings available.
 dig pits 18x18x12 ins. in each sec. $5\frac{1}{2}$ ft. dist., and raise a mound of earth 4 ft. base 2 ft. high W. of cor.
 Land, rolling. Soil, 2nd rate, sandy, gravelly, dry.
 Greasewood, sage brush, few mesquites.
- Note. At this cor., at noon, I set off $13^{\circ}25\frac{1}{2}'$ S. on the decl. arc, and observe the sun on the meridian.
 The resulting lat. is $33^{\circ}28'$ N.

Chains.	
	N. 89°59' E. bet. secs. 4 & 33.
	Over rolling land, through dense greasewood.
39.40	Point for $\frac{1}{4}$ sec. cor. will fall in wash, therefore at
	Set an iron post 3 ft. long, 1 in. in diam. 26 ins. in the
	ground for witness cor. to $\frac{1}{4}$ sec. cor., marked on brass cap,
	1914 on S. rim,
	W C $\frac{1}{4}$ E. of centre,
	S 33 in NW., and
	S 4 in SW. quad.; no bearings available;
40.00	dig pits 18x18x12 ins. E. & W. of cor. 3 ft. dist., and
80.00	raise a mound of earth $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high W. of cor.
	Wash 30 lks. wide, course SSW. point for $\frac{1}{4}$ sec. cor.
	Set an iron post 3 ft. long, 3 ins. in diam. 24 ins. in
	the ground for cor. of secs. 3, 4, 33 & 34, marked on
	brass cap, 1914 on S. rim,
	T 2 N in N.,
	T 1 N in S., and
	R 6 W in W. half,
	S 33 in NW.,
	S 34 in NE.,
	S 3 in SE., and
	S 4 in SW. quad.;
	dig pits 18x18x12 ins. in each sec. $5\frac{1}{2}$ ft. dist., and
	raise a mound of earth $4\frac{1}{2}$ ft. base 2 ft. high W. of cor.
	Land, rolling.
	Soil, 3rd rate, gravelly, dry.
	Greasewood, few scrub mesquites.
	<hr/>
	N. 89°59' E. bet. secs. 3 & 34.
	Over rolling land, through dense greasewood.
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 34 in N., and
	S 3 in S. half,
	1914 on S. rim;
	dig pits 18x18x12 ins. E. & W. of cor. 3 ft. dist., and
	raise a mound of earth $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high N. of cor.
	A mesquite tree 12 ins. diam. brs. S. 68° E. 209 lks. dist.,
	marked $\frac{1}{4}$ S 3 B T. No other trees available.
61.70	Wagon trail, dim, brs. NE. & SW.
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 & 35, marked on
	brass cap, 1914 on S. rim,
	T 2 N in N.,
	T 1 N 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. quad.; from which,
	A mesquite tree 12 ins. diam. brs. S. 11° E. 76 lks. dist.,
	marked T 1 N R 6 W S 2 B T.
	No other trees available.
	Dig pits 18x18x12 ins. in each sec. $5\frac{1}{2}$ ft. dist., and
	raise a mound of earth 4 ft. base 2 ft. high W. of cor.
	Land, rolling. Soil, 2nd rate, sandy, gravelly, dry.
	Greasewood, sage brush, few mesquites.
	<hr/>
	N. 89°59' E. bet. secs. 2 & 35.
	Over rolling land, through dense greasewood.
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 in S. half, 1914 on S. rim;
	dig pits 18x18x12 ins. E. & W. of cor. 3 ft. dist., and
	raise a mound of earth $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high N. of cor.
45.00	Dim road, brs. NNE. & SSW.
52.00	Draw, 2 chs. wide, course S.
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 & 36, marked on
	brass cap,

Chains.

1914 on S. rim,
 T 2 N in N.,
 T 1 N 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. quad.; from which,
 A mesquite tree 5 ins. diam. brs. S. 5° E. 106 lks. dist.,
 marked T 1 N R 6 W S 1 B T.
 No other bearings available.
 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, rolling. Soil, 2nd rate, gravelly, sandy.
 Greasewood, sage brush, few mesquites.

N. 89°59' E. bet. secs. 1 & 36.
 Over rolling land, through dense brush.
 17.00 Shallow draw, 10 chs. wide, course S., rich soil.
 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 N., and
 S 1 in S. half, 1914 on S. rim;
 dig pits 18x18x12 ins. E. & W. of cor. 3 ft. dist., and
 raise a mound of earth 3½ ft. base, 1½ ft. high N. of cor.
 42.20 Dim road, brs. N. & S.
 70.00 Enter draw, course S.
 80.00 To cor. of Tps. 1 & 2 N., Rs. 5 & 6 W., hereinbefore
 described.
 Land, rolling. Soil, 2nd rate, sandy, loamy, fertile.
 Greasewood, sage brush, mesquite. Feb. 13, 1914.

General Description.
 The E. & N. bdrs. of T. 1 N., R. 6 W., run over rolling
 land, in a plain covered in general with dense grease-
 wood, and in places with mesquite, paloverde and ironwood.
 The west boundary runs over rolling land along near the
 east foot of a range of volcanic hills.
 There is no water on or near the boundaries.

Boundaries of T. 1 N., R. 6 W.
 Latitudes, departures, and closing errors.

Line designated.	True bearing.	Dist..	Latitudes.		Departures.	
			N.	S.	E.	W.
South boundary		Chs.	Chs.	Chs.	Chs.	Chs.
(G. & S. R. Base Line West,	West,	480.00	-----	-----	-----	480.00
West Boundary,	North,	480.00	480.00	-----	-----	-----
North Boundary,	N. 89°59' E.	479.62	0.14	-----	479.62	-----
East Boundary,	South,	480.00	-----	480.00	-----	-----
Convergencv,	-----	-----	-----	-----	0.48	-----
		Totals,	480.14	480.00	480.10	480.00
			480.00	-----	480.00	-----
		Error in Latitude,	---0.14	-----	-----	-----
		Error in Departure,	-----	-----	---0.10	-----

Feb. 13, 1914.

Chains.

Feb. 23, 1914.

At 8h a.m., l.m.t., at the Std. cor. of Tps. 1 N. Rs. 7 & 8 W., on G&SR. Base Line, recently established by me, and heretofore described in book "C", I set off 9°56' S. on the decl. arc, and 33°22' N. on the lat. arc, and determine a meridian with the solar, which meridian coincides with the true meridian established by Polaris observation the preceding evening, as described in book "C". Thence I run, as per instructions, by back & fore sight,

North, on Base Line, bet. secs. 31 & 36.

Var. 14°40' E.

Over rolling, broken land, through dense paloverde, greasewood, and scattering ironwood trees.

10.00 Wash, 10 lks. wide, course SW., asc. gradually.

40.00 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 W., and

S 31 in E. half, 1914 on S. rim; from which, An ironwood tree 18 ins. diam. brs. N. 55 1/2° W. 134 lks. dist., marked 1/4 S 36 B T.

An ironwood tree 6 ins. diam. brs. S. 72 1/2° E. 165 lks. dist., marked 1/4 S 31 B T.

44.00 Gulch, 50 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 & 36, marked on brass cap, 1914 on S. rim, T 1 N in N. half, R 8 W S 25 in NW., R 7 W S 30 in NE., S 31 in SE., and S 36 in SW. quad.; pits impracticable.

Raise a mound of stone 2 ft. base, 1 1/2 ft. high W. of cor. Land, rolling, broken.

Soil, 2nd rate, gravelly, dry, stony, loose.

Greasewood, paloverde, ironwood, few cacti. No grass.

North, bet. secs. 25 & 30.

Over broken, heavily rolling land, asc. grad.

23.20 Gulch, 20 lks. wide, course SE.

28.20 Gulch, 30 lks. wide, course SE.

33.80 Gulch, 25 lks. wide, course SW., same as above.

40.00 Point for 1/4 sec. cor. falls in gulch, 25 lks. wide, course SE., same gulch as above. Therefore at

40.40 Set an iron post 3 ft. long, 1 in. in diam. 26 ins. in the ground for witness cor. to 1/4 sec. cor., marked on brass cap, 1914 on S. rim,

W C 1/4 N. of centre,

S 25 in NW., and

S 30 in NE. quad.; from which,

An ironwood tree 18 ins. diam. brs. S. 24° E. 107 lks. dist., marked 1/4 S 30 W C B T.

An ironwood tree 12 ins. diam. brs. S. 30° W. 30 lks. dist., marked 1/4 S 25 W C B T.

54.00 Asc. steep, stony, spur from W.

57.00 Rocky spur, brs. E. & W., desc.

73.00 Gulch, 40 lks. wide, course ENE., asc. grad.

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 & 30, marked on brass cap, 1914 on S. rim;

T 1 N, in N. half,

R 8 W S 24 in NW.,

R 7 W S 19 in NE.,

S 30 in SE., and

S 25 in SW. quad.; no pits impracticable.

Raise a mound of stone 2 ft. base, 1 1/2 ft. high W. of cor. Land, broken, heavily rolling, mts.

Soil, 3rd rate, gravelly, dry, stony.

Greasewood, paloverde, cacti.

Chains.

- North, bet. secs. 19 & 24.
Over hilly, broken land, through scattering brush.
- 7.20 Wash, 20 lks. wide, course SE.
11.40 Wash, 30 lks. wide, course SE., asc.
39.00 Ridge, brs. SE. & NW., from NW., desc.
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 24 in W., and
S 19 in E. half, 1914 on S. rim; pits imprac.
raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high W. of cor.
- 56.50 Gulch, 15 lks. wide, course SE., asc.
60.00 Spur, brs. SE. & NW., desc.
65.00 Gulch, 15 lks. wide, course ESE., asc. SE. slope.
72.50 Top of rise, E. slope, desc.
77.50 Gulch, 20 lks. wide, course ESE., asc.
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 & 24, marked on brass cap, 1914 on S. rim,
T 1 N in N. half,
R 8 W S 13 in NW.,
R 7 W S 18 in NE.,
S 19 in SE., and
S 24 in SW. quad.; from which,
An ironwood tree 8 ins. diam. brs. S. 74° W. 115 lks. dist.,
marked T 1 N R 8 W S 24 B T.
No other bearings available. Pits impracticable.
Raise a mound of stone 3 ft. base 2 ft. high W. of cor.
- Land, broken, mts.
Soil, 3rd rate, gravelly, stony, dry.
Greasewood, cacti, few ironwood & paloverde trees.
- Note. At this cor., at noon, the sky is overcast,
impracticable to observe the lat.

- North, bet. secs. 13 & 18.
Over mts. broken land, through scattering brush, asc.
- 1.60 Ridge, brs. E. & W., desc.
10.00 Gulch, 10 lks. wide, course E., asc.
25.00 Ridge, brs. E. & W., desc.
35.00 Gulch, 20 lks. wide, course E.
40.00 Set an iron post 3 ft. long, 1 in. in diam. 26 ins. in the ground for $\frac{1}{4}$ sec. cor., marked on brass cap,
 $\frac{1}{4}$ S 13 in W., and
S 18 in E. half, 1914 on S. rim; pits imprac.
raise amount of stone 2 ft. base, $1\frac{1}{2}$ ft. high W. of cor.
- 41.00 Gulch, 40 lks. wide, course SE.
60.00 Gulch, 30 lks. wide, course ESE.
79.60 Gulch, 30 lks. wide, course ESE.
80.00 Set an iron post 3 ft. long, 3 ins. in diam. 24 ins. in the ground for cor. of secs. 7, 12, 13 & 18, marked on brass cap, 1914 on S. rim,
T 1 N in N. half,
R 8 W S 12 in NW.,
R 7 W S 7 in NE.,
S 18 in SE., and
S 13 in SW. quad.; from which,
An ironwood tree 10 ins. diam. brs. S. 44° W. 72 lks. dist.,
marked T 1 N R 8 W S 13 B T.
No other bearings available, pits impracticable.
Raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high W. of cor.
- Land, broken, heavily rolling, mts.
Soil, 2nd & 3rd rate, gravelly, dry, stony.
Greasewood, ocotillo and few other cacti, ironwood and paloverde trees.

Chains.

North, bet. secs. 7 & 12.
 Over mts. land, through scattering brush.

9.40 Gulch, 20 lks. wide, course ESE. , asc. steep.
 22.60 Rocky spur, brs. E. & W., desc. steep NE. slope.
 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 12 in W., and
 S 7 in E. half, 1914 on S. rim; pits imprac.
 Raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high W. of cor.
 Desc. grad. from cor.

45.60 Rocky gulch, 40 lks. wide, course E., asc.
 50.00 Asc. prec. SE. slope of rocky sharp peak.
 63.50 Top of rise, prec. E. slope of peak, apex is 3 chs. to
 W., rough granite crag, desc. prec. NE. slope.
 70.00 Ridge, pass bet. peaks to NE. & SW., each about 10 chs.
 dist. desc. steen NW. slope.
 78.00 Granite peak, apex about 8 chs. to east of line.
 80.00 Set an iron post 3 ft. long, 3 ins. in diam. 24 ins. in
 the ground for cor. of secs. 1, 6, 7 & 12, marked on
 brass cap, 1914 on S. rim,
 T 1 N in N. half,
 R 8 W S 1 in NW.,
 R 7 W S 6 in NE.,
 S 7 in SE., and
 S 12 in SW. quad.; pits impracticable.
 Raise a mound of stone 3 ft. base 3 ft. high W. of cor.
 Land, mts., broken, rough.
 Soil, 3rd rate, stony.
 Greasewood, cacti, few paloverde bushes.

North, bet. secs. 1 & 6.
 Over mts. land, desc. NW. slope, through scattering
 brush.

13.00 Rim of bluff, 50 ft. high, brs. E. & W., desc. abruptly.
 13.50 Foot, thence desc. gradually.
 35.00 Gulch, 30 lks. wide, course ENE. , asc. gently.
 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., and
 S 6 in E. half, 1914 on S. rim; pits imprac.
 raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high W. of cor.

78.00 Old road, brs. E. & W.
 80.00 Set an iron post 3 ft. long, 3 ins. in diam. 24 ins. in
 the ground for cor. of Tps. 1 & 2 N., Rs. 7 & 8 W.,
 marked on brass cap, 1914 on S. rim,
 T 2 N in N.,
 T 1 N in S.,
 R 7 W in E., and
 R 8 W in W. half,
 S 36 in NW.,
 S 31 in NE.,
 S 6 in SE., and
 S 1 in SW. quad.; pits impracticable.
 Raise a mound of stone 4 ft. base 3 ft. high S. of cor.
 A granite pinnacle, hereinbefore noted at 78 chs. on
 line bet. secs. 7 & 12 brs. S. $4^{\circ}36'$ E., about 1 mile.
 Buckhorn peak brs. N. $35^{\circ}50'$ W., about 10 miles.
 S. pinnacle, Eagle Tail peak brs. S. $75^{\circ}20'$ W., about
 about 18 miles dist.
 U. S. mineral monument No. 3030 brs. S. $87^{\circ}16'$ E.
 An old shaft 4x6x10 ft. brs. N. $33\frac{1}{2}^{\circ}$ E. 140 lks. dist.
 Land, mts.
 Soil, 3rd rate, gravelly, stony, dry.
 Greasewood, paloverde, few giant and other cacti.
 Feb. 23, 1914.

Chains.

Feb. 24, 1914.

At 8h a.m., l.m.t., at the cor. of Tps. 1 & 2 N., Rs. 6 & 7 W., recently established by me, and hereinbefore described.

I set off $9^{\circ}35\frac{1}{2}'$ S. on the decl. arc, and $33^{\circ}28'$ N. on the lat. arc, and determine a meridian with the solar.

Thence I run, as per instructions, West, on a random line, setting temp. $\frac{1}{4}$ sec. and sec. cors. at intervals of 40 chs.

At 5 miles, 79.51 chs. I fall 14 lks. N. of cor. of Tps. 1 & 2 N., Rs. 7 & 8 Whereinbefore described, whence I run, on the line,

N. $89^{\circ}59'$ E. on a true line bet. secs. 6 & 31.

Over rolling land, through dense greasewood, scattering paloverde and ironwood.

10.80 Old road, brs. ENE. & WSW.

39.51 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, 1914 on S. rim; $\frac{1}{4}$ S 31 in N., and S 6 in S. half, pits imprac., raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high N. of cor.

46.00 Asc. small spur, brs. N. & S.

50.26 Top of spur, brs. N. & S., a point from which, U. S. Mineral Monument No. 3030 brs. S. $5^{\circ}11' W$. 242 lks. dist., which is a post 6x8 ins. set firmly in a large mound of stone 5 ft. base, $3\frac{1}{2}$ ft. high on top of small rise of spur.

Desc.

56.50 Main shaft of Paloverde mine brs. North, 2 chs. dist.

Paloverde mining camp brs. N. 5-10 chs. dist., consisting of 4 houses, (frame), barn, corrals, etc.

Foot of slope, brs. N. & S., desc. gently through scattering paloverde and greasewood.

79.51 Set an iron post 3 ft. long, 3 ins. in diam. 24 ins. in the ground for cor. of secs. 5, 6, 31 & 32, marked on brass cap, 1914 on S. rim,

T 2 N in N.,
T 1 N in S., and
R 7 W in W. half,
S 31 in NW.,
S 32 in NE.,
S 5 in SE., and
S 6 in SW. quad.; from which,

A paloverde tree 12 ins. diam. brs. S. $0^{\circ}\frac{3}{4}' E$. 205 lks. dist., marked T 1 N R 7 W S 5 B T.

An ironwood tree 16 ins. diam. brs. N. $43^{\circ} W$. 85 lks. dist., marked T 2 N R 7 W S 31 B T.

No other trees available, pits impracticable.

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

U. S. Mineral Monument No. 3030 brs. S. $85^{\circ}15' W$.

Land, rolling. Soil, 3rd rate, gravelly, stony, dry. Greasewood, paloverde, ironwood, cacti, no grass.

N. $89^{\circ}59'$ E. bet. secs. 5 & 32.

Over rolling land, through dense brush.

4.00 Wash, 20 lks. wide, course NE.

4.60 Road, brs. NE. & SE.

31.00 S. end of hill, brs. N. & S., desc.

35.50 Gulch, 70 lks. wide, course NE., asc.

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 32 in N., and

S 5 in S. half, 1914 on S. rim; pits imprac.

raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high N. of cor.

46.00 Rocky spur, brs. N. & S., from hill $\frac{1}{2}$ mile to S., desc.

63.00 Foot, brs. NNW. & SSE., enter plain, desc. gently.

80.00 Set an iron post 3 ft. long, 3 ins. in diam. 24 ins. in the ground for cor. of secs. 4, 5, 32 & 33, marked on brass cap, 1914 on S. rim,

T 2 N in N., T 1 N in S., & R 7 W in W. half,
S 32 in NW., S 33 in NE.,

S 4 in SE., & S 5 in SW. quad.; pits imprac.

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

Land, rolling. Soil, 2nd rate, gravelly. Greasewood, sage.

Chains.

N. 89°59' E. bet. secs. 4 & 33.
 Over gently rolling land, through scattering brush.
 10.50 Main road, Phoenix to Harrisburg, brs. WNW. & ESE.
 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 33 in N., and
 S 4 in S. half, 1914 on S. rim;
 dig pits 18x18x12 ins. E. & W. of cor. 3 ft. dist., and
 raise a mound of earth $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high N. of cor.
 77.50 Wash, 30 lks. wide, course ENE.
 80.00 Set an iron post 3 ft. long, 3 ins. in diam. 24 ins. in
 the ground for cor. of secs. 3, 4, 33 & 34, marked on
 brass cap, 1914 on S. rim,
 T 2 N in N.,
 T 1 N in S., and
 R 7 W in W. half,
 S 33 in NW.,
 S 34 in NE.,
 S 3 in SE., and
 S 4 in SW. quad.; from which,
 A mesquite tree 12 ins. diam. brs. N. $1\frac{1}{4}$ ° E. 62 lks. dist.,
 marked T 2 N R 7 W S 34 B T.
 A mesquite tree 12 ins. diam. brs. S. 80° W. 265 lks. dist.,
 marked T 1 N R 7 W S 4 B T.
 No other trees available.
 Dig pits 18x18x12 ins. in each sec. $5\frac{1}{2}$ ft. dist., and
 raise a mound of earth 4 ft. base 2 ft. high W. of cor.
 Land, gently rolling. Soil, 2nd rate, gravelly, sandy, dry.
 Greasewood, paloverde, sage brush.
 Note: At this cor., at noon, I set off 9°32' S. on the decl.
 arc, and observe the sun on the meridian.
 The resulting lat. is 33°28' N.

N. 89°59' E. bet. secs. 3 & 34.
 Over gently undulating 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 34 in N., and
 S 3 in S. half, 1914 on S. rim; from which,
 A paloverde tree 8 ins. diam. brs. N. 51° W. 63 lks. dist.,
 marked $\frac{1}{4}$ S 34 B T.
 A paloverde tree 7 ins. diam. brs. S. 69° W. 175 lks. dist.,
 marked $\frac{1}{4}$ S 3 B T.
 75.90 Wash, 20 lks. wide, course SSE.
 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 & 35, marked on
 brass cap, 1914 on S. rim,
 T 2 N in N.,
 T 1 N 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. quad.; from which,
 A mesquite tree 8 ins. diam. brs. N. 85° W. 369 lks. dist.,
 marked T 2 N R 7 W S 34 B T.
 An ironwood tree 4 ins. diam. brs. N. 37° E. 135 lks. dist.,
 marked T 2 N R 7 W S 35 B T.
 A paloverde tree 12 ins. diam. brs. S. 27° E. 297 lks. dist.,
 marked T 1 N R 7 W S 2 B T.
 A paloverde tree 8 ins. diam. brs. S. 41° W. 164 lks. dist.,
 marked T 1 N R 7 W S 3 B T.
 Land, rolling gently. Soil, 2nd rate, gravelly, sandy, dry.
 Greasewood, sage brush, few paloverde, ironwood & mesquite
 trees.

Chains. N. 89°59' E. bet. secs. 2 & 35.
 Over level land, through dense brush.
 4.40 Wash, 60 lks. wide, course SSE.
 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 in S. half;
 dig pits 18x18x12 ins. E. & W. of cor. 3 ft. dist., and
 raise a mound of earth $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high N. of cor.
 47.75 Wash, 20 lks. wide, course SE.
 72.68 Dim road, brs. NNW. & SSE.
 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 & 36, marked on
 brass cap, 1914 on S. rim,
 T 2 N in N.,
 T 1 N 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. quad.; no bearings available.
 Dig pits 18x18x12 ins. in each sec. $5\frac{1}{2}$ ft. dist., and
 raise a mound of earth 4 ft. base 2 ft. high W. of cor.
 Land, level. Soil, 2nd rate, sandy, loamy, loose, dry.
 Greasewood, sage brush, few paloverde & ironwood trees.

N. 89°59' E. bet. secs. 1 & 36.
 Over level land, through dense brush.
 7.70 Wash, 40 lks. wide, course SSE.
 19.30 Wash, 30 lks. wide, course SE.
 40.00 Set an iron post 3 ft. long, 1 in. in diam. 26 ins. in
 the ground for $\frac{1}{4}$ sec. cor., marked on brass cap,
 $\frac{1}{4}$ S 36 in N., and
 S 1 in S. half, 1914 on S. rim;
 dig pits 18x18x12 ins. E. & W. of cor. 3 ft. dist., and
 raise a mound of earth $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high N. of cor.
 44.50 Wash, 60 lks. wide, course SE.
 77.95 Old road, brs. NNW. & SSE.
 80.00 To cor. of Tps. 1 & 2 N., Rs. 6 & 7 W. hereinbefore
 described.
 Land, level. Soil, 2nd rate, gravelly, dry, sandy, loamy.
 Greasewood, sage brush, few ironwood & paloverde trees.

General Description.

The West bdy. of Tp. 1 N., R. 7 W. runs over rough, broken land, along the east slope of the Saddle Back mountains, near foot of main slope. The North bdy. runs over rolling or nearly level land, covered in general with dense growth of greasewood, sage brush, with some large ironwood and paloverde trees along the washes.

Boundaries of T. 1 N., R. 7 W.
 Latitudes, departures and closing errors.

Line Designated	True bearing.	Dist..	Latitudes.		Departures.	
			N.	S.	E.	W.
South boundary (G. & S. R. Base Line),	West,	Chs. 480.00	Chs. -----	Chs. -----	Chs. -----	Chs. 480.00
West Boundary,	North,	480.00	480.00	-----	-----	-----
North Boundary,	N. 89°59' E.	479.51	0.14	-----	479.51	-----
East Boundary,	South,	480.00	-----	480.00	-----	-----
Convergency,	-----	-----	-----	-----	0.48	-----
Totals,			480.14	480.00	479.99	480.00
			480.00	-----	-----	479.99
Error in Lat.,			0.14	Error in Dep.,	0.01	

Chains.

March 13, 1914.

At 9h a.m., l.m.t., at the Std. cor. of Tps. 1 N., Rs. 8 & 9 W. (on the G. and S. R. Base Line) as described in book "C.",

I set off 3°03' S. on the decl. arc, and 33°22½' N. on the lat. arc, and determine a meridian with the solar, and mark a point in this meridian by a tack in a stake driven firmly in the ground 5 chs. N. of my station. I check this line by setting up my instrument over the tangent point 24½ lks. to the S. (Note: Tangent line has been deflected from true mer. estab. by observ. of Polaris desc. in Bk. "C") and deflecting an angle of 90°03½' from the tangent from W. to N & also an angle of 89°56½' from tangent from E. to N., and marking a point in the meridian thus determined by a tack driven in the stake 5 chs. N. of the Std. cor., which point falls .35 ins. W of the line point as determined by the solar apparatus.

The two lines for meridian vary by about 20".

I adopt the mean as correct, and run from above described Std. cor., by back & fore sight,

North, on line, bet. secs. 31 & 36, as per instructions, var. 14°35' E.

Over level plain, through dense low 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., and S 31 in E. half, 1914 on S. rim;

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

61.00 Dim old road, brs. NW. & 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 & 36, marked on brass cap, 1914 on S. rim, T 1 N in N. half, R 9 W S 25 in NW., R 8 W S 30 in NE., S 31 in SE., and S 36 in SW. quad.; no bearings available.

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, 2nd rate, sandy, gravelly, loamy, dry. Greasewood, sage brush, few paloverde and mesquite trees.

North, bet. secs. 25 & 30.

Over level land, through dense low brush.

30.70 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 25 in W., and S 30 in E. half,

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

60.50 Dim old road, brs. E. & W.

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 & 30, marked on brass cap, 1914 on S. rim, T 1 N in N. half, R 9 W S 24 in NW., R 8 W S 19 in NE., S 30 in SE., and S 25 in SW. quad.;

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, 2nd rate, sandy, gravelly, loose, dry. Greasewood, sage brush, few paloverde trees and cacti.

Chains.

- North, bet. secs. 19 & 24.
Over level plain, through dense low 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 24 in W., and S 19 in E. half, 1914 on S. rim; dig pits 18x18x12 ins. N. & S. of cor. 3 ft. dist., and raise a mound of earth $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high W. of cor.
- 80.00 Set an iron post 3 ft. long, 3 ins. in diam. 24 ins. in the ground for cor. of secs. 13, 18, 19 & 24, marked on brass cap, 1914 on S. rim; T 1 N in N. half, R 9 W S 13 in NW., R 8 W S 18 in NE., S 19 in SE., and S 24 in SW. quad.; dig pits 18x18x12 ins. in each sec. $5\frac{1}{2}$ ft. dist., and raise a mound of earth 4 ft. base 2 ft. high W. of cor. Land, level. Soil, 2nd rate, sandy, loose, dry. Greasewood, sage brush, few cacti.
- Note. At this cor., at noon, I set off $3^{\circ}0\frac{1}{2}'$ S. on the decl. arc, and observe the sun on the meridian. The resulting lat. is $33^{\circ}25'$ N.

- North, bet. secs. 13 & 18.
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 13 in W., and S 18 in E. half, 1914 on S. rim; dig pits 18x18x12 ins. N. & S. of cor. 3 ft. dist., and raise a mound of earth $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high W. of cor.
- 80.00 Set an iron post 3 ft. long, 3 ins. in diam. 24 ins. in the ground for cor. of secs. 7, 12, 13 & 18, marked on brass cap, 1914 on S. rim; T 1 N in N. half, R 9 W S 12 in NW., R 8 W S 7 in NE., S 18 in SE., and S 13 in SW. quad.; dig pits 18x18x12 ins. in each sec. $5\frac{1}{2}$ ft. dist., and raise a mound of earth 4 ft. base 2 ft. high W. of cor. Land, level. Soil, 2nd rate, sandy, loose, dry. Greasewood, sage brush, paloverde, few cacti.

Chains.

North, bet. secs. 7 & 12.

Over level land, through dense brush.

0.20

Road, brs. NW. & SE.

40.00

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

$\frac{1}{4}$ S 12 in W., and

S 7 in E. half, no bearings available.

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

80.00

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

R 9 W S 1 in NW.,

R 8 W S 0 in NE.,

S 7 in SE., and

S 12 in SW. quad.; 1914 on S. rim;

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

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

Greasewood, sage brush, few paloverde, and scrub mesquite.

North, bet. secs. 1 & 6.

Over level land, through dense low 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., and

S 6 in E. half, 1914 on S. rim;

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

80.00

Set an iron post 3 ft. long, 3 ins. in diam. 24 ins. in the ground for cor. of Tps. 1 & 2 N., Rs. 8 & 9 W., marked on brass cap,

1914 on S. rim.

T 2 N in N.,

T 1 N in S.,

R 8 W in E., and

R 9 W in W. half,

S 36 in NW.,

S 31 in NE.,

S 6 in SE., and

S 1 in SW. quad.;

dig pits 24x24x12 ins. on each line, N, E. & W. 4 ft., and S. of cor. 8 ft. dist., and

Raise a mound of earth 5 ft. base $2\frac{1}{2}$ ft. high S. of cor.

Land, level.

Soil, 2nd rate, sandy, loamy, dry, loose, fertile.

Greasewood, sage brush, scrub mesquite and paloverde.

March 13, 1914.

Chains.

March 14, 1914.
At 8h a.m., l.m.t., at the cor. of Tps. 1 & 2 N., Rs. 7 & 8 W., recently established by me, as hereinbefore described,

I set off 2°40' S. on the decl. arc, and 33°28' N. on the lat. arc, and determine a meridian with the solar. Thence I run, as per instructions, sec. West, on a random line, setting temp. 1/4 and sec. cors. at intervals of 40 chs.

At 5 miles, 79.69 chs. I fall 14 lks. N. of the cor. of Tps. 1 & 2 N., Rs. 8 & 9 W., hereinbefore described, whence I run,

N. 89°59' E., on a true line, bet. secs. 6 & 31.
Var. 14°30' E.

39.69 Over level land, through dense brush, greasewood, sage brush, few paloverde and ironwood trees. No grass.

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 31 in N., and S 6 in S. half, 1914 on S. rim;

dig pits 18x18x12 ins. E. & W. of cor. 3 ft. dist., and raise a mound of earth 3 1/2 ft. base, 1 1/2 ft. high N. of cor. Middle of draw, 10 chs. wide, course SSW.

45.69 79.69 Set an iron post 3 ft. long, 3 ins. in diam. 24 ins. in the ground for cor. of secs. 5, 6, 31 & 32, marked on brass cap, 1914 on S. rim,

T 2 N in N.,
T 1 N in S., and
R 8 W in W. half,
S 31 in NW.,
S 32 in NE.,
S 5 in SE., and
S 6 in SW. quad.; no bearings available;
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, 2nd rate, sandy, loamy, dry. Greasewood, sage brush, few paloverde & ironwood trees.

N. 89°59' E. bet. secs. 5 & 32.

40.00 Over level land, through dense brush.
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 32 in N., and S 5 in S. half, 1914 on S. rim;

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

Set an iron post 3 ft. long, 3 ins. in diam. 24 ins. in the ground for cor. of secs. 4, 5, 32 & 33, marked on brass cap, 1914 on S. rim;

T 2 N in N.,
T 1 N in S., and
R 8 W in W. half,
S 32 in NW.,
S 33 in NE.,
S 4 in SE., and
S 5 in SW. quad.; no bearings available;

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, 2nd rate, loamy, loose, sandy, dry. Greasewood, sage brush, few ironwood & mesquite trees.

Note: At this cor., at noon, I set off 2°37' S. on the decl. arc, and observe the sun on the meridian. The resulting lat. is 33°28' N.

21
Chains.

- N. 89°59' E. bet. secs. 4 & 33.
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 33 in N., and S 4 in S. half, 1914 on S. rim; dig pits 18x18x12 ins. E. & W. of cor. 3 ft. dist., raise a mound of earth $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high N. of cor.
- 80.00 Set an iron post 3 ft. long, 3 ins. in diam. 24 ins. in the ground for cor. of secs. 3, 4, 33 & 34, marked on brass cap, 1914 on S. rim, T 2 N in N., T 1 N in S., and R 8 W in W. half, S 33 in NW., S 34 in NE., S 3 in SE., and S 4 in SW. quad.;
No bearings available, pits impracticable.
Raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high W. of cor. Land, level.
Soil, 2nd rate, loamy, loose, sandy, gravelly, dry. Greasewood, sage brush, few paloverde, mesquite and ironwood trees in places.

- N. 89°59' E. bet. secs. 3 & 34.
Over level plain, through dense brush.
- 6.60 Road, brs. NE. & SW.
- 24.10 Wash, 15 lks. wide, course NNW.
- 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 34 in N., and S 3 in S. half, 1914 on S. rim; pits imprac. raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high N. of cor.
- 80.00 Set an iron post 3 ft. long, 3 ins. in diam. 24 ins. in the ground for cor. of secs 2, 3, 34 & 35, marked on brass cap, 1914 on S. rim, T 2 N in N., T 1 N in S., and R 8 W in W. half, S 34 in NW., S 35 in NE., S 2 in SE., and S 3 in SW. quad.;
dig pits 18x18x12 ins. in each sec. $5\frac{1}{2}$ ft. dist., and raise a mound of earth 4 ft. base 2 ft. high W. of cor. Land, level.
Soil, 2nd rate, sandy, gravelly, loose, dry. Greasewood, sage brush, few paloverde trees.

North Boundary of Township 1 North, Range 8 West. 22.

Chains.

N.89° 59' E. bet. secs. 2 and 35.
 Over gently rolling land, through dense brush.
 16.10 Wash, 10 lks. wide, course NW.
 25.30 Wash, 20 lks. wide, course NW.
 40.00 Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in the ground for $\frac{1}{4}$ sec. cor., marked on brass cap,
 $\frac{1}{4}$ S 35 in N., and
 S 2 in S. half;
 1914 in S. rim;
 pits impracticable; raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high, N. of cor.
 73.00 Wash, 10 lks. wide, course NW.
 76.00 Wash, 20 lks. wide, course NNW.
 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,
 1914 on S. rim;
 T 2 N in N.,
 T 1 N in S., and
 R 8 W in W. half;
 S 35 in NW.,
 S 36 in NE.,
 S 1 in SE., and
 S 2 in SW. quadrant;
 pits impracticable. Raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high, west of cor.
 Land, level, rolling.
 Soil, 2nd rate, sandy, gravelly, dry.
 Greasewood, sage brush, palo verde, few ironwood trees.

N.89° 59' E., bet. secs. 1 and 36.
 Over rolling land, through dense brush.
 28.20 Wash, 20 lks. wide, course N.
 40.00 Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked on brass cap,
 $\frac{1}{4}$ S 36 in N., and
 S 1 in S. half;
 1914 on S. rim; from which,
 An ironwood tree, 14 ins. in diam., brs. N.77°E.,
 139 lks. dist., marked $\frac{1}{4}$ S 36 B T.
 A palo verde tree, 6 ins. in diam., brs. S.17°E.
 57 lks. dist., marked $\frac{1}{4}$ S 1 B T.
 41.20 Wash, 30 lks. wide, course N.; ascend gently.
 52.20 Wash, 20 lks. wide, course N.
 77.80 Road, brs. NE and SW.
 80.00 Cor. of Ts. 1 and 2 N., Rs. 7 and 8 W., hereinbefore described.
 Land, rolling.
 Soil, 2nd rate, sandy, gravelly, dry. loose.
 Greasewood, sage brush, palo verde, few ironwood trees.

GENERAL DESCRIPTION.

The west and north bdrs. of T.1 N., R.8 W., run over level or gently rolling land in the main valley of the Centennial Wash. There is no water or timber along or near the lines. The soil is a sandy loam, formed from decomposition of granitoid & lava rock, mostly dry and loose.

221 Boundaries of Township 1 North, Range 8 West.
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Latitudes, departures, and closing errors.

Line designated.	True bearing.	Dist.	Latitudes.		Departures.		W.
			N.	S.	E.		
South bdy. (G. & S. R. Base Line)	West,	480.00				480.00	
West bdy.	North,	480.00	480.00				
North bdy.	N. 89° 59' E.	479.69	0.14		479.69		
East bdy.	South,	480.00		480.00			
Convergency,					0.48		
	Totals, -----		480.14	480.00	480.17	480.00	
			480.00		480.00		
	Error in lat., -----		0.14				
	Error in dep., -----					0.17	

March 14, 1914.

Chains.

March 16, 1914.
At 8h a.m., l.m.t., at the cor. of Tps. 1 & 2 S., Rs. 7 & 8 W. recently established by John E. Hesse, and described in Book "B."

I set off 1°53' S. on the decl. arc, and 33°17½' N. on the lat. arc, and determine a meridian with the solar. thence I run, as per instructions,

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

Var. 14°30' E.

Over heavily rolling land, through dense greasewood, sage brush, paloverde, ironwood, cacti.

12.90 Road, brs. NNE. & SSW.

34.40 Wash, 15 lks. wide, course SSE., asc.

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 N., and

S 1 in S. half, 1914 on S. rim; from which,

An ironwood tree 8 ins. diam. brs. N. 28½° W. 181 lks. dist., marked ¼ S 36 B T.

A Paloverde tree 10 ins. diam. brs. S. 41° W. 82 lks. dist., marked ¼ S 1 B T.

57.00 Top of N. side of hill, brs. N. & S., desc.

79.50 Wash, 10 lks. wide, course NW.

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 & 36, marked on brass cap, 1914 on S. rim,

T 1 S in N.,

T 2 S in S., and

R 8 W in W. half,

S 35 in NW.,

S 36 in NE.,

S 1 in SE., and

S 2 in SW. quad.; from which,

A paloverde tree 12 ins. diam. brs. N. 33° W. 141 lks. dist., marked T 1 S R 8 W S 35 B T.

An ironwood tree 16 ins. diam. brs. N. 81° E. 34 lks. dist., marked T 1 S R 8 W S 36 B T.

A paloverde tree 14 ins. diam. brs. S. 59° E. 121 lks. dist., marked T 2 S R 8 W S 1 B T.

A paloverde tree 12 ins. diam. brs. S. 84° W. 438 lks. dist., marked T 2 S R 8 W S 2 B T.

Land, heavily rolling. Soil, 2nd rate, gravelly, loose. Paloverde, ironwood, greasewood, cacti, sage brush.

West, bet. secs. 2 & 35.

Over heavily rolling land, through dense brush, asc.

19.00 Ridge, brs. N. & S., desc.

30.00 Foot, brs. N. & S.

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 35 in N., and

S 2 in S. half, 1914 on S. rim.

No bearings available, pits impracticable.

Raise a mound of stone 2 ft. base, 1½ ft. high N. of cor.

54.10 Dim road, brs. NNE. & SSW.

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 & 35, marked on brass cap, 1914 on S. rim,

T 1 S in N.,

T 2 S in S., and

R 8 W in W. half,

S 34 in NW.,

S 35 in NE.,

S 2 in SE., and

S 3 in SW. quad.;

No bearings available, pits impracticable.

Raise a mound of stone 2 ft. base, 1½ ft. high W. of cor.

Land, rolling.

Soil, 2nd rate, gravelly, stony, dry, coarse.

Greasewood, few paloverde and cacti.

Chains.	
	west bet. secs. 3 & 34. Over heavily rolling land, through dense brush.
30.00	Asc.
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 34 in N., and S 3 in S. half, 1914 on S. rim. Pits imprac.
41.00	Raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high N. of cor. Top of low hill, brs. N. & S., desc.
54.00	Foot.
57.66	Old road, brs. NW. & SE.
69.15	Old road, brs. NE. & SW.
80.00	Set an iron post 3 ft. long 3 ins. in diam. 24 ins. in the ground for cor. of secs. 3, 4, 33 & 34, marked on brass cap, 1914 on S. rim, T 1 S in N., T 2 S in S., and R 8 W in W. half, S 33 in NW., S 34 in NE., S 3 in SE., and S 4 in SW. quad.; no bearings available. Dig pits 18x18x12 ins. in each sec. $5\frac{1}{2}$ ft. dist., and raise a mound of earth 4 ft. base 2 ft. high W. of cor. Land, heavily rolling. Soil, 2nd rate, gravelly, dry. Greasewood, paloverde, cacti.
	Note: At this cor., at noon, I set off $1^{\circ}49\frac{1}{2}'$ S. on the decl. arc, and observe the sun on the meridian. The resulting lat. is $33^{\circ}17'$ N.
	<hr/>
	West bet. secs. 4 & 33. Over hilly land, through dense brush, asc.
25.00	Top of low hill, brs. N. & S., desc.
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 33 in N., and S 34 in S. half, 1914 on S. rim; pits imprac.
55.00	raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high N. of cor. Foot of slope, brs. N. & S., enter level land.
80.00	Set an iron post 3 ft. long, 3 ins. in diam. 24 ins. in the ground for cor. of secs. 4, 5, 32 & 33, marked on brass cap, 1914 on S. rim, T 1 S in N., T 2 S in S., and R 8 W in W. half, S 32 in NW., S 33 in NE., S 4 in SE., and S 5 in SW. quad.; from which: A mesquite tree 8 ins. diam. brs. N. 53° W. 200 lks. dist., marked T 1 S R 8 W S 32 B T. A mesquite tree 5 ins. diam. brs. N. 57° E. 89 lks. dist., marked T 1 S R 8 W S 33 B T. A mesquite tree 8 ins. diam. brs. S. 58° E. 137 lks. dist., marked T 2 S R 8 W S 4 B T. A mesquite tree 6 ins. diam. brs. S. 40° W. 271 lks. dist., marked T 2 S R 8 W S 5 B T. Land, hilly, rollin, level. Soil, 2nd rate, gravelly, stony, loose, dry, coarse. Greasewood, mesquite, sage brush, cacti, few paloverde.

Chains.

West bet. secs. 5 & 32.

Over rolling land, through dense brush, asc.

33.00 Low hill, brs. N. & S., desc.

40.00 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 32 in N., and

S 5 in S. half, 1914 on S. rim; pits imprac.

raise a mound of stone 2 ft. base, 1 1/2 ft. high N. of cor.

58.00 Asc.

79.80 Ridge, brs. N. & S., desc.

80.00 Set an iron post 3 ft. long 3 ins. in diam. 24 ins. in the ground for cor. of secs. 5, 6, 31 & 32, marked on brass cap, 1914 on S. rim,

T 1 S in N.,

T 2 S in S., and

R 8 W in W. half,

S 31 in NW.,

S 32 in NE.,

S 5 in SE., and

S 6 in SW. quad.; pits impracticable.

Raise a mound of stone 2 ft. base, 1 1/2 ft. high W. of cor.

Land, rolling.

Soil, 2nd & 3rd rate, gravelly, stony, dry.

Greasewood, paloverde, cacti,

West bet. secs. 6 & 31.

Over hilly land, through scattering brush.

18.00 Asc.

33.60 Top of hill, brs. N. & S., desc.

40.00 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 31 in N., and

S 6 in S. half, 1914 on S. rim;

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

raise a mound of earth 3 1/2 ft. base, 1 1/2 ft. high N. of cor.

Allowing 184 lks. for convergency, as per instructions, at

78.16 Set an iron post 3 ft. long 3 ins. in diam. 24 ins. in the ground for cor. of Tps. 1 & 2 S., Rs. 8 & 9 W., marked on brass cap, 1914 on S. rim,

T 1 S in N.,

T 2 S in S.,

R 8 W in E., and

R 9 W in W. half,

S 36 in NW.,

S 31 in NE.,

S 6 in SE., and

S 1 in SW. quad.; from which,

A paloverde tree 14 ins. diam. brs. N. 40° W. 104 lks. dist., marked T 1 S R 9 W S 36 B T.

A paloverde tree 10 ins. diam. brs. N. 83° E. 83 lks. dist., marked T 1 S R 8 W S 31 B T.

A paloverde tree 20 ins. diam. brs. S. 18° E. 95 lks. dist., marked T 2 S R 8 W S 6 B T.

A paloverde tree 14 ins. diam. brs. S. 5° W. 182 lks. dist., marked T 2 S R 9 W S 1 B T.

A lone volcanic butte brs. N. 24° 05' E., about 2 miles.

A stone monument on a volcanic butte, brs. S. 27° 33' E., about 6 miles.

A volcanic butte brs. S. 73° 06' W., about 4 miles.

Magnetic variation, 14° E.

Land, heavily rolling.

Soil, 3rd rate, gravelly, dry, coarse.

Greasewood, paloverde, sage brush, cacti.

March 16, 1914.

Chains.

- March 17, 1914.
At 8h a.m., l.m.t., at the cor. of Tps. 1 & 2 S., Rs. 8 & 9 W., ~~hereinbefore~~ described,
I set off $1^{\circ}29'S.$ on the decl. arc, and $33^{\circ}17\frac{1}{2}'N.$ on the lat. arc, and determine a meridian with the solar. Thence I run, as per instructions,
North, ~~between~~ between sec. 31 & 36.
Over heavily rolling, hilly land, through dense greasewood, sage brush, few cacti.
- 4.50 E. pt. of low hill, desc. gradually.
14.00 Road, brs. NE. & SW.
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 W., and
S 31 in E. half, 1914 on S. rim;
dig pits 18x18x12 ins. N. & S. of cor. 3 ft. dist., and raise a mound of earth $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high W. of cor.
- 80.00 Set an iron post 3 ft. long, 3 ins. in diam. 24 ins. in the ground for cor. of secs. 25, 30, 31 & 36, marked on brass cap, 1914 on S. rim,
T 1 S in N. half,
R 9 W S 25 in NW.,
R 8 W S 30 in NE.,
S 31 in SE., and
S 36 in SW. quad.; no bearings available.
Dig pits 18x18x12 ins. in each sec. $5\frac{1}{2}$ ft. dist., and raise a mound of earth 4 ft. base 2 ft. high W. of cor.
Land, rolling.
Soil, 2nd rate, gravelly, loose, dry.
Greasewood, sage brush, cacti.
-
- North, bet. secs. 25 & 30.
Over rolling land, through scattering 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 25 in W., and
S 30 in E. half, 1914 on S. rim;
dig pits 18x18x12 ins. N. & S. of cor. 3 ft. dist., and raise a mound of earth $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high W. of cor.
- 73.85 Road, brs. NE. & 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 & 30, marked on brass cap, 1914 on S. rim,
T 1 S in N. half,
R 9 W S 24 in NW.,
R 8 W S 19 in NE.,
S 30 in SE., and
S 25 in SW. quad.; from which,
A paloverde tree 8 ins. diam. brs. N. $27^{\circ}E.$ 164 lks. dist., marked T 1 S R 8 W S 19 B T.
No other trees available.
Dig pits 18x18x12 ins. in each sec. $5\frac{1}{2}$ ft. dist., and raise a mound of earth 4 ft. base 2 ft. high W. of cor.
Land, rolling.
Soil, 2nd rate, gravelly, dry.
Greasewood, sage brush, cacti, few paloverde.
-
- North bet. secs. 19 & 24.
Over rolling land, through scattering brush.
- 19.00 Wash, 1 ch. 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 24 in W., and
S 19 in E. half, 1914 in S. rim, from which,
A paloverde tree 10 ins. diam. brs. S. $5\frac{1}{4}^{\circ}E.$ 134 lks. dist., marked $\frac{1}{4}$ S 19 B T.
A mesquite tree 20 ins. diam. brs. S. $11\frac{1}{4}^{\circ}W.$ 157 lks. dist., marked $\frac{1}{4}$ S 24 B T.
- 45.00 Asc. SE. slope.
65.00 Top of ridge, brs. E. & W., 400 ft. above $\frac{1}{4}$ cor., low pass 10 chs. to E., desc. steep.

Chains.

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 & 24, marked on brass cap, 1914 on S. rim,
 T 1 S in N. half,
 R 9 W S 13 in NW.,
 R 8 W S 18 in NE.,
 S 19 in SE., and
 S 24 in SW. quad.; pits impracticable.
 Raise a mound of stone 3 ft. base 2 ft. high W. of cor.
 Land, rolling, mts.
 Soil, 3rd rate, gravelly, stony, dry.
 Greasewood, paloverde, sage brush, cacti.

North, bet. secs. 13 & 18.

Over mts. land, desc. grad. stony NE. slope.
 10.50 Foot, brs. WNW. & SE., old road, brs. NW. & SE., enter flat.
 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 13 in W., and
 S 18 in E. half, 1914 on S. rim,
 dig pits 18x18x12 ins. N. & S. of cor. 3 ft. dist., and raise a mound of earth $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high W. of cor.
 47.80 Road, brs. WNW. & ESE.
 74.00 Wash, 15 lks. wide, course E.

80.00 Set an iron post 3 ft. long, 3 ins. in diam. 24 ins. in the ground for cor. of secs. 7, 12, 13 & 18, marked on brass cap, 1914 on S. rim,
 T 1 S in N. half,
 R 9 W S 12 in NW.,
 R 8 W S 7 in NE.,
 S 18 in SE., and
 S 13 in SW. quad.; no bearings available.
 Dig pits 18x18x12 ins. in each sec. $5\frac{1}{2}$ ft. dist., and raise a mound of earth 4 ft. base 2 ft. high W. of cor.
 Land, level, rolling.
 Soil, 2nd rate, stony, gravelly, loamy, dry, loose.
 Greasewood, sage brush, cacti, few paloverde.

Note: At this cor., at noon, I set off $1^{\circ}26'$ S. on the decl. arc, and observe the sun on the meridian.
 The resulting lat. is $33^{\circ}21'$ N.

North bet. secs. 7 & 12.

Over level plain, through dense brush.
 31.80 Old road, brs. NE. & SW.
 35.50 Wash, 30 lks. wide, course ENE.
 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 12 in W., and
 S 7 in E. half, 1914 on S. rim,
 dig pits 18x18x12 ins. N. & S. of cor. 3 ft. dist., and raise a mound of earth $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high W. of cor.

70.80 Road, brs. NE. & SW.
 80.00 Set an iron post 3 ft. long, 3 ins. in diam. 24 ins. in the ground for cor. of secs. 1, 6, 7 & 12, marked on brass cap, 1914 on S. rim,
 T 1 S in N. half,
 R 9 W S 1 in NW.,
 R 8 W S 6 in NE.,
 S 7 in SE., and
 S 12 in SW. quad.; from which,

A mesquite tree 10 ins. diam. brs. N. 38° E. 46 lks. dist., marked T 1 S R 8 W S 6 B T.

No other trees in limits.
 Dig pits 18x18x12 ins. in each sec. $5\frac{1}{2}$ ft. dist., and raise a mound of earth 4 ft. base 2 ft. high W. of cor.
 Land, level, gently undulating.
 Soil, 2nd rate, sandy, loamy, gravelly, loose. dry.
 Greasewood, sage brush, cacti, few paloverde and mesquite.

Chains.

North bet. secs. 1 & 6.
 Over level plain, 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., and S 6 in E. half, 1914 on S. rim, dig pits 18x18x12 ins. N. & S. of cor. 3 ft. dist., and raise a mound of earth $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high W. of cor.
 59.60 Old road, brs. E. & W.
 80.90 Intersect Gila & Salt River Base line, whence Std. cor. of Tps. 1 N., Rs. 8 & 9 W. brs. West, 7.63 chs. dist., as established by me, as described in book "CV". At point of intersection I Set an iron post 3 ft. long, 3 ins. in diam. 24 ins. in the ground for closing cor. of Tps. 1 S., Rs. 8 & 9 W., marked on brass cap, 1914 on S. rim, T 1 N R 9 W S 36, R 8 W S 31, in N. half, and T 1 S in S. half, R 8 W S 6 in SE., and R 9 W S 1 in SW. quad.; and C C, S. of centre; no bearings available. dig pits 30x24x12 ins. crosswise on each line, E. & W. 4 ft., and S. of cor. 8 ft. dist., and raise a mound of earth 5 ft. base $2\frac{1}{2}$ ft. high S. of cor.
 Land, level, drains NNE.
 Soil, 2nd rate, loamy, sandy, loose, dry.
 Greasewood, sage brush, few cacti and paloverde.

General Description.

The S. bdy. of T. 1 S., R. 8 W. runs over a rolling, or hilly country, dry, and barren in places.
 The land to the S. is more broken and hilly.
 There is no water nor timber along or near the line.
 The W. bdy. of T. 1 S., R. 8 W. runs over broken hilly land for three miles, then entering a smooth, level plain in the northern portion, a part of the drainage basin of the Centennial Draw.
 The land in the northern portion trends into sandy loam.

Boundaries of T. 1 S., R. 8 W.
 Latitudes, departures, and closing errors.

Line Designated.	True bearing.	Dist.	Latitudes.		Departures.	
			N.	S.	E.	W.
		Chs.	Chs.	Chs.	Chs.	Chs.
South Boundary,	West,	478.16	-----	-----	-----	478.16
West Boundary,	North,	480.90	480.90	-----	-----	-----
North Boundary, (G. & S. R. Base Line),	East,	477.49	-----	-----	477.49	-----
East Boundary,	South,	480.74	-----	480.74	-----	-----
Convergency,	-----	-----	-----	-----	0.48	-----
Totals.....			480.90	480.74	477.97	478.16
			480.74	-----	-----	477.97
Error in Lat.,			----- 0.16	Error in Dep.,	----- 0.19	

March 17, 1914.

Chains.

March 29, 1914.
 At 8h a.m., l.m.t., at the cor. of Tps. 1 & 2 N., Rs. 7 & 8 W., recently established by me, as hereinbefore described,
 I set off 3°14' N. on the decl. arc, and 33°28' N. on the lat. arc, and determine a meridian with the solar. Thence I run, as per instructions, North, between sec. 31 & 36.
 Var. 14°20' E.
 Over rolling, stony land, asc. grad., through scattering paloverde, greasewood, cacti.

18.63 Main road, Phoenix to Harrisburg, brs. E. & W.
 24.80 Dim road, brs. NW. & SE.
 28.00 Tunnel on W. side hill brs. E. 2 chs. dist.
 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 W., and S 31 in E. half, 1914 on S. rim; pits imprac. raise a mound of stone 2 ft. base, 1 $\frac{1}{2}$ ft. high W. of cor.

46.00 Gulch, 20 lks. wide, course SW., asc.
 61.00 Ridge, brs. W. & E., rocky hills to E. & W. 15 chs. dist. Desc.
 80.00 Point for cor. of secs. 25, 30, 31 & 36 falls in Gulch, 20 lks. wide, course NNE. Therefore, continue N. to
 80.40 Set an iron post 3 ft. long, 3 ins. in diam. 24 ins. in the ground for witness cor. to cor. of secs. 25, 30, 31 & 36, marked on brass cap, 1914 on S. rim,
 W C, N. of centre
 T 2 N in N. half,
 R 8 W S 25 in NW.,
 R 7 W S 30 in NE.,
 S 31 in SE., and
 S 36 in SW. quad.; from which,
 A paloverde tree 6 ins. diam. brs. N. 6 $\frac{1}{4}$ ° W. 158 lks. dist., marked T 2 N R 8 W S 25 W C B T.
 A paloverde tree 8 ins. diam. brs. N. 89° E. 16 lks. dist., marked T 2 N R 7 W S 30 W C B T.
 A paloverde tree 8 ins. diam. brs. S. 63° E. 28 lks. dist., marked T 2 N R 7 W S 31 W C B T.
 A paloverde tree 6 ins. diam. brs. S. 48° W. 69 lks. dist., marked T 2 N R 8 W S 36 W C B T.

Land, rolling, mts. Soil, gravelly, stony, 3rd rate.
 Greasewood, paloverde, cacti.

From the cor. point of secs. 25, 30, 31 & 36, I run, N. bet. secs. 25 & 30. Over mts. broken land, along N. side of rocky hill.

0.40 Witness cor. to cor. of secs. 25, 30, 31 and 36. (hill)
 15.00 Desc. NE. slope.
 17.40 Gulch, 40 lks. wide, course WNW.
 26.00 Asc. steep SE. slope.
 32.00 Top of hill, apex 1 ch. to W., desc. NE. slope.
 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 25 in W., and S 30 in E. half, 1914 on S. rim; from which,
 An ironwood tree 6 ins. diam. brs. S. 77° E. 40 lks. dist., marked $\frac{1}{4}$ S 30 B T.
 A Paloverde tree 8 ins. diam. brs. N. 5° W. 220 lks. dist., marked $\frac{1}{4}$ S 25 B T.

45.00 Asc. steep SE. slope.
 55.00 Top of hill, apex 80 lks. to W., desc. NE. slope.
 79.80 Gulch, 15 lks. wide, course NE., asc.
 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 & 30, marked on brass cap, 1914 on S. rim,
 T 2 N in N. half,
 R 8 W S 24 in NW.,
 R 7 W S 19 in NE.,
 S 30 in SE., and
 S 25 in SW. quad.; pits impracticable.
 Raise a mound of stone 2 ft. base, 1 $\frac{1}{2}$ ft. high W. of cor.
 Land, broken, mts. Soil, 3rd rate, gravelly, stony.
 Paloverde, greasewood, few ironwood trees.

Chains.

- North, bet. secs. 19 & 24.
Over mts. land, asc. stony E. side of hill.
- 12.00 Desc.
25.00 Foot, brs. NW. & SE., enter flat.
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 24 in W., and S 19 in E. half, 1914 on S. rim; dig pits 18x18x12 ins. N. & S. of cor. 3 ft. dist., and raise a mound of earth $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high W. of cor.
- 45.00 Asc. WSW. slope, rocky hill.
55.00 Top of rise, W. side of rocky hill, brs. WNW. & ESE.
Desc. NW. slope.
65.00 Foot, brs. NW. & SE., enter plain.
70.75 Wash, 30 lks. wide, course ESE.
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 & 24, marked on brass cap, 1914 on S. rim, T 2 N in N. half, R 8 W S 13 in NW., R 7 W S 18 in NE., S 19 in SE., and S 24 in SW. quad.; dig pits 18x18x12 ins. in each sec. $5\frac{1}{2}$ ft. dist., and raise a mound of earth 4 ft. base 2 ft. high W. of cor.
- Land, mts., rolling.
Soil, 2nd rate, stony, gravelly, sandy, loose, dry.
Greasewood, paloverde. sage brush, few cacti.
- Note; At this cor., at noon, I set off $3^{\circ}17\frac{1}{2}'$ N. on the decl. arc, and observe the sun on the meridian.
The resulting lat. is $33^{\circ}30'$ N.

- North, bet. secs. 13 & 18.
Over level land, through dense brush.
- 38.60 Wash, 30 lks. wide, course SE.
40.00 Set an iron post 3 ft. long, 1 in. in diam. 26 ins. in the ground for $\frac{1}{4}$ sec. cor., marked on brass cap, $\frac{1}{4}$ S 13 in W., and S 18 in E. half, 1914 on S. rim; from which, An ironwood tree 12 ins. diam. brs. N. 74° W. 165 lks. dist., marked $\frac{1}{4}$ S 13 B T.
An ironwood tree 10 ins. diam. brs. S. $39\frac{1}{2}^{\circ}$ E. 70 lks. dist., marked $\frac{1}{4}$ S 18 B T.
- 62.00 Wash, 20 lks. wide, course SE.
74.50 Wash, 15 lks. wide, course E.
78.20 Wash, 15 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. 7, 12, 13 & 18, marked on brass cap, 1914 on S. rim, T 2 N in N. half, R 8 W S 12 in NW., R 7 W S 7 in NE., S 18 in SE., and S 13 in SW. quad.; from which, A paloverde tree 18 ins. diam. brs. N. 63° E. 245 lks. dist., marked T 2 N R 7 W S 7 B T.
An ironwood tree 24 ins. diam. brs. S. 80° E. 270 lks. dist., marked T 2 N R 7 W S 18 B T.
An ironwood tree 24 ins. diam. brs. S. 14° W. 230 lks. dist., marked T 2 N R 8 W S 13 B T.
A paloverde tree 16 ins. diam. brs. N. 64° W. 128 lks. dist., marked T 2 N R 8 W S 12 B T.
- Land, gently rolling, level.
Soil, 2nd rate, sandy, loamy, gravelly, loose, dry.
Greasewood, paloverde, ironwood, sage brush.

Chains.

- North, bet. secs. 7 & 12.
Over gently undulating land, through dense brush.
- 39.90 Wash, 20 lks. wide, course E.
- 40.00 Point for $\frac{1}{4}$ sec. cor. falls in wash; therefore, at
- 40.25 Set an iron post 3 ft. long, 1 in. in diam. 26 ins. in the ground for witness cor. to $\frac{1}{4}$ sec. cor., marked on brass cap, 1914 on S. rim,
W C $\frac{1}{4}$ N. of centre,
S 7 in NE., and
S 12 in NW. quad.; from which,
An ironwood tree 10 ins. diam. brs. S. 34° E., 62 lks. dist.,
marked $\frac{1}{4}$ S 7 W C B T.
An ironwood tree 24 ins. diam. brs. S. 80° W. 114 lks. dist.,
marked $\frac{1}{4}$ S 12 W C B T.
- 47.35 Wash, 30 lks. wide, course SE.
- 55.15 Old road, brs. NNW. & SSE.
- 80.00 Set an iron post 3 ft. long, 3 ins. in diam. 24 ins. in the ground for cor. of secs. 1, 6, 7 & 12, marked on brass cap, 1914 on S. rim,
T 2 N in N. half,
R 8 W S 1 in NW.,
R 7 W S 6 in NE.,
S 7 in SE., and
S 12 in SW. quad.; no bearings available.
Dig pits 18x18x12 ins. in each sec. $5\frac{1}{2}$ ft. dist., and raise a mound of earth 4 ft. base 2 ft. high W. of cor.
Land, level, gently undulating.
Soil, 2nd rate, sandy, gravelly, loose, dry.
Greasewood, sage brush, few ironwood & paloverde trees.
-
- North, bet. secs. 1 & 6.
Over level or gently rolling 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., and
S 6 in E. half, 1914 on S. rim; pits impracticable
Raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high W. of cor.
- 45.60 Wash, 30 lks. wide, course SE.
- 50.20 Wash, 25 lks. wide, course SE.
- 74.00 Wash, 30 lks. wide, course SSE.
- 80.00 Set an iron post 3 ft. long, 3 ins. in diam. 24 ins. in the ground for cor. of Tps. 2 & 3 N., Rs. 7 & 8 W., marked on brass cap,
1914 on S. rim,
T 3 N in N.,
T 2 N in S.,
R 8 W in W., and
R 7 W in E. half,
S 36 in NW.,
S 31 in NE.,
S 6 in SE., and
S 1 in SW. quad.; from which,
An ironwood tree 10 ins. diam. brs. S. $62\frac{1}{4}^{\circ}$ W. 100 lks. dist.,
marked T 2 N R 8 W S 1 B T.
A paloverde tree 12 ins. diam. brs. N. $78\frac{1}{4}^{\circ}$ W. 148 lks. dist.,
marked T 3 N R 8 W S 36 B T.
No other trees available. Pits impracticable.
Raise a mound of stone 4 ft. base, $2\frac{1}{2}$ ft. high S. of cor.
Buckhorn peak brs. N. $60^{\circ}57'$ W. about 9 miles dist.
Highest peak Saddle Mountains brs. S. $07^{\circ}08'$ W., about 9 miles dist.
Highest peak, White Tank Mountains brs. N. $86^{\circ}13'$ E., about 20 miles dist.

March 29, 1914.

Chains.

March 30, 1914.

At 8h a.m., l.m.t., at the cor. of Tps. 2 & 3 N., Rs. 6 & 7 W., as previously established by

John F. Hesse, and by him described in book "B.", I set off $3^{\circ}38'$ N. on the decl. arc, and $33^{\circ}35'$ N. on the lat. arc, and determine a meridian with the solar.

Thence I run, as per instructions, West, on a random line, on $1^{\circ}30'$, setting temp. $\frac{1}{4}$ sec. & sec. cors. at intervals of 40 chs.

At 5 miles, 79.12 chs. I fall 28 lks. N. of the cor. of Tps. 2 & 3 N., Rs. 7 & 8 W. hereinbefore described, whence I run, Var. $14^{\circ}15'$ E.

N. $89^{\circ}58'$ E. on a true line bet. secs. 6 and 31.

Over rolling land, through dense greasewood, scattering paloverde, ironwood.

10.00 Wash, 50 lks. wide, course S.

16.10 Wash, 20 lks. wide, course SSE.

28.50 Wash, 30 lks. wide, course SE.

39.12 Point for $\frac{1}{4}$ sec. cor., falls in wash, 40 lks. wide, course S. Therefore, at

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

WC, $\frac{1}{4}$ W. of centre,

S 31 in NW., and

S 6 in SW. quad.; from which,

An ironwood tree 12 ins. diam. brs. N. $31\frac{1}{2}^{\circ}$ E. 52 lks. dist., marked $\frac{1}{4}$ S 31 W C B T.

An ironwood tree 10 ins. diam. brs. S. 33° E. 69 lks. dist., marked $\frac{1}{4}$ S 6 W C B T.

79.12 Set an iron post 3 ft. long, 3 ins. in diam. 24 ins. in the ground for cor. of secs. 5, 6, 31 & 32, marked on brass cap, 1914 on S. rim,

T 3 N in N.,

T 2 N in S., and

R 7 W in W. half,

S 31 in NW.,

S 32 in NE.,

S 5 in SE., and

S 6 in SW. quad.; no bearings available.

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, rolling.

Soil, 2nd rate, gravelly, loose, dry.

Greasewood, paloverde, ironwood, sage brush.

N. $89^{\circ}58'$ E. bet. secs. 5 & 32.

Over rolling land, through dense brush.

13.50 Wash, 20 lks. wide, course SSE.

20.40 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 $\frac{1}{4}$ sec. cor., marked on brass cap,

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

S 5 in S. half, 1914 on S. rim,

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

43.60 Wash, 20 lks. wide, course SE.

58.50 Wash, 40 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. 4, 5, 32 & 33, marked on brass cap, 1914 on S. rim,

T 3 N in N.,

T 2 N in S., and

R 7 W in W. half,

S 32 in NW.,

S 33 in NE.,

S 4 in SE., and

S 5 in SW. quad.; from which,

An ironwood tree 9 ins. diam. brs. N. $17\frac{1}{2}^{\circ}$ E. 250 lks. dist., marked T 3 N R 7 W S 33 B T.

No other bearings available.

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, gently rolling. Soil, 2nd rate, gravelly, sandy.

Greasewood, sage brush.

Chains.	N. 89°58' E. bet. secs. 4 and 33. Over gently rolling land, through dense brush.
17.80	Wash, 20 lks. wide, course SSE.
32.30	Wash, 40 lks. wide, course SSE.
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 33 in N., and S 4 in S. half, 1914 on S. rim; from which, A paloverde tree 12 ins. diam. brs. N. 56° E. 259 lks. dist., marked $\frac{1}{4}$ S 33 B T. A paloverde tree 5 ins. diam. brs. S. 68 $\frac{3}{4}$ ° E. 42 lks. dist., marked $\frac{1}{4}$ S 4 B T.
59.43	Old road, brs. NNW. & SSE.
62.40	Wash, 8 lks. wide, course SSE. As point for cor. of secs. 3, 4, 33 & 34 will fall in wash, or on W. edge of wash; therefore at
79.50	Set an iron post 3 ft. long, 3 ins. in diam. 24 ins. in the ground for witness cor. to cor. of secs. 3, 4, 33 & 34, marked on brass cap, 1914 on S. rim, W C W. of centre, T 3 N in N., T 2 N in S., and R 7 W in W. half, S 33 in NW., S 34 in NE., S 3 in SE., and S 4 in SW. quad.; from which, An ironwood tree 24 ins. diam. brs. N. 62° E. 78 lks. dist., marked T 3 N R 7 W S 34 W C B T. A paloverde tree 18 ins. diam. brs. S. 74° E. 105 lks. dist., marked T 2 N R 7 W S 3 W C B T. No other bearings available. Dig pits 18x18x12 ins. in each sec. 5 $\frac{1}{2}$ ft. dist., and raise a mound of earth 4 ft. base 2 ft. high W. of cor.
80.00	To cor. point of secs. 3, 4, 33 & 34. Land, rolling. Soil, 2nd rate, sandy, loose, dry, gravelly. Greasewood, paloverde, ironwood, few cacti.
<hr/>	
0.30	From cor. point of secs. 3, 4, 33 & 34, I run, N. 89°58' E. bet. secs. 3 & 34. Over gently rolling land, through dense brush.
16.00	Centre of wash, 50 lks. wide, course SSE.
27.15	Wash, 20 lks. wide, course SSE.
40.00	Wash, 15 lks. wide, course SSE.
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 34 in N., and S 3 in S. half, 1914 on S. rim; from which, An ironwood tree 18 ins. diam. brs. N. 68 $\frac{1}{2}$ ° E. 278 lks. dist., marked $\frac{1}{4}$ S 34 B T. No other bearings available. Dig pits 18x18x12 ins. E. & W. of cor. 3 ft. dist., and raise a mound of earth 3 $\frac{1}{2}$ ft. base, 1 $\frac{1}{2}$ ft. high N. of cor.
53.50	Wash, 20 lks. wide, course SE.
62.20	Wash, 15 lks. wide, course SSE.
74.00	Dim old road, brs. NW. & SE.
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 & 35, marked on brass cap, 1914 on S. rim, T 3 N in N., T 2 N 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. quad.; no bearings available. Dig pits 18x18x12 ins. in each sec. 5 $\frac{1}{2}$ ft. dist., and raise a mound of earth 4 ft. base 2 ft. high W. of cor.
	Land, rolling gently. Soil, 2nd rate, gravelly, sandy, loose, dry. Greasewood, sage brush, scattering ironwood and paloverde trees.
Note:	At this cor., at noon, high gusts of wind render it impracticable to make satisfactory observation for lat.

34.

North Boundary of T. 2 N., R. 7 W.

Chains. N. 89°58' E. bet. secs. 2 & 35.
 Over gently rolling land, through dense brush.
 11.40 Wash, 30 lks. wide, course SSE.
 15.90 Wash, 10 lks. wide, course SSE.
 37.12 Old road, brs. NNW. & SSE.
 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, 1914 on S. rim. $\frac{1}{4}$ S 35 in N., and S 2 in S. half, 1914 on S. rim; from which,
 An ironwood tree 9 ins. diam. brs. N. 85° E. 93 lks. dist., marked $\frac{1}{4}$ S 35 B T.
 An ironwood tree 9 ins. diam. brs. S. 72° E. 128 lks. dist., marked $\frac{1}{4}$ S 2 B T.
 41.00 Wash, 10 lks. wide, course SSE.
 60.60 Wash, 60 lks. wide, course SE.
 72.70 Wash, 25 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 & 36, marked on brass cap, 1914 on S. rim,
 T 3 N in N.,
 T 2 N in S., and
 R 7 W in W. half,
 S 35 in NW., S 36 in NE.,
 S 1 in SE. & S 2 in SW. quad.;
 dig pits 18x18x12 ins. in each sec. $5\frac{1}{2}$ ft. dist., and raise a mound of earth 4 ft. base 2 ft. high W. of cor.
 Land, gently rolling. Soil, 2nd rate, sandy, gravelly, dry. Greasewood, sage brush, few ironwood & paloverde trees.

N. 89°58' E. bet. secs. 1 & 36.
 Over gently undulating land, through dense brush.
 7.80 Wash, 10 lks. wide, course S.
 27.75 Wash, 25 lks. wide, course S.
 34.80 Wash, 10 lks. wide, course SSE.
 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, 1914 on S. rim. $\frac{1}{4}$ S 36 in N., and S 1 in S. half; from which,
 An ironwood tree 6 ins. diam. brs. N. 88 $\frac{1}{2}$ ° E. 125 lks. dist., marked $\frac{1}{4}$ S 36 B T.
 A paloverde tree 18 ins. diam. brs. S. 82° E. 208 lks. dist., marked $\frac{1}{4}$ S 1 R T.
 42.25 Wash, 20 lks. wide, course S.
 57.35 Wash, 30 lks. wide, course SSE.
 79.15 Wash, 10 lks. wide, course SE.
 80.00 To cor. of Tps. 2 & 3 N., R. 6 & 7 W., hereinafter desc. in Bk. "B".
 Land, rolling. Soil, 2nd rate, sandy, gravelly, dry. Greasewood, sage brush, few ironwood and paloverde trees.

General Description.

The W. bdy. of T. 2 N., R. 7 W. runs over a small range of shaly hills in the S. 3 miles, thence over a smooth gently rolling plain for the N. 3 miles. The N. bdy. runs over a gently rolling plain, broken by small washes, drainage to SE.

Boundaries of T. 2 N., R. 7 W.
 Latitudes, departures and closing errors.

Line Designated.	True bearing.	Dist.	Latitudes.		Departures.	
			N.	S.	E.	W.
South Boundary,	S. 89°59' W.	479.51	Chs.	Chs.	Chs.	Chs.
West Boundary,	North,	480.00	480.00	00.14	-----	479.51
North Boundary,	N. 89°58' E.	479.12	0.28	-----	479.12	-----
East Boundary,	South,	480.00	-----	480.00	-----	-----
Convergency,	-----	-----	-----	-----	0.48	-----
Totals,			480.28	480.14	479.60	479.51
			480.14	-----	479.51	-----
Error in Latitude,			---0.14			
Error in Departure,					---0.09	

March 30, 1914.

64.

East Boundary of T. 3 N., R. 10 W.

Chains. May 10, 1914. At the cor. of Tps. 2 & 3 N., Rs. 9 & 10 W.,
 estab. by John F. Hesse, as described in Book "B."
 At 4h 23m a.m., l.m.t., I observe Polaris at E. elong. in
 accordance with instructions in the Manual, and mark
 the line thus determined by a tack in a stake driven
 firmly in the ground 5 chs. N. of my station.
 At 6h a.m., l.m.t., I set off the azimuth of Polaris,
 $1^{\circ}22\frac{1}{2}'$ to the W., and mark the true meridian thus
 determined by a tack in a stake driven firmly in the
 ground 6 chs. N. of my station.
 Thence I run, by back & fore sight, as per instructions,
 North, ~~on range line~~, bet. secs. 31 & 36.
 Over level plain, drains S., through dense greasewood,
 sage brush, scattering paloverde and ironwood.

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 W., and
 S 31 in E. half, 1914 on S. rim;
 dig pits 18x18x12 ins. N. & S. of cor. 3 ft. dist., and
 raise a mound of earth $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high W. of cor.

80.00 Set an iron post 3 ft. long, 3 ins. in diam. 24 ins. in
 the ground for cor. of secs. 25, 30, 31 & 36, marked on
 brass cap, 1914 on S. rim,
 T 3 N in N. half,
 R 10 W S 25 in NW.,
 R 9 W S 30 in NE.,
 S 31 in SE., and
 S 36 in SW. quad.; no trees available.
 Dig pits 18x18x12 ins. in each sec. $5\frac{1}{2}$ ft. dist., and
 raise a mound of earth 4 ft. base 2 ft. high W. of cor.
 Land, level, drains S.
 Soil, 1st & 2nd rate, loamy, sandy, dry, loose, fine texture.
 Greasewood, sage brush, paloverde, scrub ironwood.

North, bet. secs. 25 & 30.
 Over level plain, drains S., through dense brush.

29.85 Main road, brs. NW. & SE., Harrisburg & Wenden to Phoenix.

40.00 Set an iron post 3 ft. long, 3 ins. in diam. 24 ins. in
 the ground for $\frac{1}{4}$ sec. cor., marked on brass cap,
 $\frac{1}{4}$ S 25 in W., and
 S 30 in E. half, 1914 on S. rim;
 dig pits 18x18x12 ins. N. & S. of cor. 3 ft. dist., and
 raise a mound of earth $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high W. of cor.
 from which,
 An ironwood tree 8 ins. diam. brs. S. 32° W. 106 lks. dist.,
 marked $\frac{1}{4}$ S 25 B T. No other trees near.

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 & 30, marked on
 brass cap, 1914 on S. rim,
 T 3 N in N. half,
 R 10 W S 24 in NW.,
 R 9 W S 19 in NE.,
 S 30 in SE., and
 S 25 in SW. quad.; from which,
 An ironwood tree 4 ins. diam. brs. N. 47° W. 148 lks. dist.,
 marked T 3 N R 10 W S 24 B T.
 An ironwood tree 6 ins. diam. brs. N. 63° E. 140 lks. dist.,
 marked T 3 N R 9 W S 19 B T.
 An ironwood tree 4 ins. diam. brs. S. 35° E. 168 lks. dist.,
 marked T 3 N R 9 W S 30 B T.
 An ironwood tree 4 ins. diam. brs. S. 72° W. 118 lks. dist.,
 marked T 3 N R 10 W S 25 B T.

Land, level.
 Soil, 1st and 2nd rate, sandy, loamy, dry, loose.
 Greasewood, sage brush, few sahuaro and other cacti,
 scattering ironwood, mesquite, paloverde.

N. 89°58' E. bet. secs. 2 & 35.
 Over level plain, drains S., through dense brush.
 12.00 Old road, brs. NW. & SE.
 40.00 Set an iron post 3 ft. long, 1 in. in diam. 26 ins. in
 the ground for $\frac{1}{4}$ sec. cor., marked on brass cap,
 $\frac{1}{4}$ S 35 in N., and
 S 2 in S. half, 1914 on S. rim,
 dig pits 18x18x12 ins. E. & W. of cor. 3 ft. dist., and
 raise a mound of earth $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high N. of cor.
 80.00 Set an iron post 3 ft. long, 3 ins. in diam. 24 ins. in
 the ground for cor. of secs. 1, 2, 35 & 36, marked on
 brass cap, 1914 on S. rim,
 T 3 N in N.,
 T 2 N in S., and
 T 10 W in W. half,
 S 35 in NW.,
 S 36 in NE.,
 S 1 in SE., and
 S 2 in SW. quad.; no bearings available.
 Dig pits 18x18x12 ins. in each sec. $5\frac{1}{2}$ ft. dist., and
 raise a mound of earth 4 ft. base 2 ft. high W. of cor.
 Land, level, drains S.
 Soil, 2nd rate, loamy, sandy, loose, dry.
 Greasewood, sage brush.

N. 89°58' E. bet. secs. 1 & 36.
 Over level plain, 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 in S. half, 1914 on S. rim;
 dig pits 18x18x12 ins. E. & W. of cor. 3 ft. dist., and
 raise a mound of earth $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high N. of cor.
 80.00 To cor. of Tps. 2 & 3 N., Rs. 9 & 10 W., as described in Book "B."
 Land, level, drains S.
 Soil, 1st rate, loamy, sandy, loose, dry.
 Greasewood, sage brush, paloverde, few small mesquites.

General Description.

The N. bdy. of T. 2 N., R. 10 W. runs over a smooth level plain, draining to the S. into the Centennial Draw. There is no water nor timber along or near the line. The soil is a fertile sandy loam, and would produce well if watered.

Boundaries of T. 2 N., R. 10 W.
 Latitudes, departures and closing errors.

Line Designated.	True bearing.	Dist..	-Latitudes.		Departures.	
			N.	S.	E.	W.
		Chs.	Chs.	Chs.	Chs.	Chs.
South Boundary,	S. 89°57' W.	479.86	-----	0.42	-----	479.86
West Boundary,	North,	480.00	480.00	-----	-----	-----
North Boundary,	N. 89°58' E.	479.60	0.28	-----	479.60	-----
East Boundary,	South,	480.00	-----	480.00	-----	-----
Convergency,	-----	-----	-----	-----	0.48	-----
			480.28	480.42	480.08	479.86
			-----	480.28	479.86	-----
			Error in Lat.,...0.14		-----	-----
			Error in Dep.,...0.22		-----	-----

May 5, 1914.

62.

Chains.

- N. 89°58' E. bet. secs. 4 & 33.
Over level plain, drains S., 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 33 in N., and
S 4 in S. half, 1914 on S. rim;
dig pits 18x18x12 ins. E. & W. of cor. 3 ft. dist., and raise a mound of earth $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high N. of cor.
- 80.00 Set an iron post 3 ft. long, 3 ins. in diam. 24 ins. in the ground for cor. of secs. 3, 4, 33 & 34, marked on brass cap, 1914 on S. rim,
T 3 N in N.,
T 2 N in S., and
R 10 W in W. half,
S 33 in NW.,
S 34 in NE.,
S 3 in SE., and
S 4 in SW. quad.;
dig pits 18x18x12 ins. in each sec. $5\frac{1}{2}$ ft. dist., and raise a mound of earth 4 ft. base 2 ft. high W. of cor.
Land, level, drains S.
Soil, 1st & 2nd rate, loamy, sandy, dry, loose.
Greasewood, sage brush, few small paloverde and mesquites.

- N. 89°58' E. bet. secs. 3 & 34.
Over level plain, drains S., 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 34 in N., and
S 3 in S. half, 1914 on S. rim;
dig pits 18x18x12 ins. E. & W. of cor. 3 ft. dist., and raise a mound of earth $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high N. of cor.
- 80.00 Set an iron post 3 ft. long, 3 ins. in diam. 24 ins. in the ground for cor. of secs. 2, 3, 34 & 35, marked on brass cap, 1914 on S. rim,
T 3 N in N.
T 2 N in S., and
R 10 W in W. half,
S 34 in NW.,
S 35 in NE.,
S 2 in SE., and
S 3 in SW. quad.; from which,
A mesquite tree 8 ins. diam. brs. S. 19° W. 120 lks. dist., marked T 2 N R 10 W S 3 B T.
No other bearings available.
Dig pits 18x18x12 ins. in each sec. $5\frac{1}{2}$ ft. dist., and raise a mound of earth 4 ft. base 2 ft. high W. of cor.
Land, level, drains S.
Soil, 1st & 2nd rate, sandy, loamy, gravelly, dry.
Greasewood, sage brush, few mesquite and paloverde trees.

Chains, May 5, 1914.
 At 8h a.m., l.m.t., at the cor. of Tps. 2 & 3 N., Rs. 9 & 10 W., as iron post as established by J. F. Hesse, and by him described, in Book "B."
 I set off $16^{\circ}08\frac{1}{2}'$ N. on the decl. arc, and $33^{\circ}33'$ N. on the lat. arc, and determine a meridian with the solar. Thence I run, as per instructions, West, on a random line, setting temp. cors. at intervals of 40 chains.
 At 5 miles, 79.60 chs. I fall 28 lks. N. of cor. of Tps. 2 & 3 N., Rs. 10 & 11 W., hereinbefore described, whence I run, on a true line
 N. $89^{\circ}58'$ E. bet. secs. 6 & 31.
 Var. $14^{\circ}25'$ E.
 Over level plain, through dense greasewood, sage brush, sparse paloverde and ironwood.
 39.60 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 31 in N., and
 S 6 in S. half, 1914 on S. rim;
 dig pits $18 \times 18 \times 12$ ins. E. & W. of cor. 3 ft. dist., and raise a mound of earth $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high N. of cor.
 79.60 Set an iron post 3 ft. long, 3 ins. in diam. 24 ins. in the ground for cor. of secs. 5, 6, 31 & 32, marked on brass cap, 1914 on S. rim,
 T 3 N in N.,
 T 2 N in S., and
 R 10 W in W. half,
 S 31 in NW.,
 S 32 in NE.,
 S 5 in SE., and
 S 6 in SW. quad.; no bearings available.
 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, drains S.
 Soil, 2nd rate, loamy, sandy, loose, dry, fine texture.
 Greasewood, sage brush, few paloverde and small ironwoods.

N. $89^{\circ}58'$ E. on a true line bet. secs. 5 & 32.
 Over level plain, drains S., 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 32 in N., and
 S 5 in S. half, 1914 on S. rim;
 dig pits $18 \times 18 \times 12$ ins. E. & W. of cor. 3 ft. dist., and raise a mound of earth $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high N. of cor.
 54.00 Enter draw, and dense mesquite, course SSE.
 55.00 Old dry well, 50 ft. deep, brs. S. 150 lks. dist.
 59.00 Leave draw.
 80.00 Set an iron post 3 ft. long 3 ins. in diam. 24 ins. in the ground for cor. of secs. 4, 5, 32 & 33, marked on brass cap, 1914 on S. rim;
 T 3 N in N.,
 T 2 N in S., and
 R 10 W in W. half,
 S 32 in NW.,
 S 33 in NE.,
 S 4 in SE., and
 S 5 in SW. quad.; no bearings available.
 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, drains S.
 Soil, 2nd rate, dry, loose, medium texture.
 Greasewood, mesquite, few paloverde trees.
 Note : At this cor., at noon, I set off $16^{\circ}11'$ N. on the decl. arc, and observe the sun on the meridian.
 The resulting lat. is $33^{\circ}33'$ N.

Chains.

- North, bet. secs. 7 & 12.
Over level plain, 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 12 in W., and
S 7 in E. half, 1914 on S. rim;
dig pits 18x18x12 ins. N. & S. of cor. 3 ft. dist., and raise a mound of earth $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high W. of cor.
- 62.00 Old road, brs. WNW. & ESE.
- 70.00 Middle of Centennial Draw, 14 chs. wide, course SE.
Fine soil, dense small mesquite and catclaw.
- 80.00 Set an iron post 3 ft. long, 3 ins. in diam. 24 ins. in the ground for cor. of secs. 1, 6, 7 & 12, marked on brass cap, 1914 on S. rim,
T 2 N in N. half,
R 11 W S 1 in NW.,
R 10 W S 6 in NE.,
S 7 in SE., and
S 12 in SW. quad.; no bearings available.
Dig pits 18x18x12 ins. in each sec. $5\frac{1}{2}$ ft. dist., and raise a mound of earth 4 ft. base 2 ft. high W. of cor.
Land, level, drains SE.
Soil, 1st rate, loamy, sandy, loose dry, fine texture.
Greasewood, scrub mesquite, paloverde.

- North, bet. secs. 1 & 6.
Over level plain, 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., and
S 6 in E. half, 1914 on S. rim;
dig pits 18x18x12 ins. N. & S. of cor. 3 ft. dist., and raise a mound of earth $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high W. of cor.
- 80.00 Set an iron post 3 ft. long, 3 ins. in diam. 24 ins. in the ground for cor. of Tps. 2 & 3 N., Rs. 10 & 11 W, marked on brass cap,
1914 on S. rim,
T 3 N in N.,
T 2 N in S.,
R 10 W in E., and
R 11 W in W. half,
S 36 in NW.,
S 31 in NE.,
S 6 in SE., and
S 1 in SW. quad.; no trees in limits.
Dig pits 24x18x12 ins. on each line, E., W. & N. 4 ft., and S. of cor. 8 ft. dist., and raise a mound of earth 5 ft. base 2 ft. high S. of cor.
Eagle Tail Peak brs. S. $9^{\circ}48'$ E.
Saddle Back Peak brs. S. $65^{\circ}44'$ E.
Buckhorn Peak brs. N. $69^{\circ}20'$ E.
Land, level, drains SE.
Soil, 1st & 2nd rate, loamy, sandy, dry, loose.
Greasewood, sage brush, few paloverde and ironwoods.

General Description.

The W. bdy. of T. 2 N., R. 10 W. runs over a smooth, level plain, the valley of the Centennial Draw.
There is no water nor timber along or near the line.
The land to the W. of line is broken along the S. portion, broadening out to smoother plain extending about 8 miles to the W. along the northern portion.

May 4, 1914.

Chains.

North, bet. secs. 19 & 24.
 Over smooth, level valley, through dense brush.

11.00 Wash, 30 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 24 in W., and S 19 in E. half, 1914 on S. rim; from which,
 An ironwood tree 12 ins. diam. brs. S. $2\frac{1}{2}^{\circ}$ W. 315 lks. dist., marked $\frac{1}{4}$ S 24 B T.
 An ironwood tree 8 ins. diam. brs. S. 28° E. 125 lks. dist., marked $\frac{1}{4}$ S 19 B T.

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 & 24, marked on brass cap, 1914 on S. rim,
 T 2 N in N. half,
 R 11 W S 13 in NW.,
 R 10 W S 18 in NE.,
 S 19 in SE., and
 S 24 in SW. quad.; from which,
 An ironwood tree 14 ins. diam. brs. N. $2\frac{1}{2}^{\circ}$ W. 505 lks. dist., marked T 2 N R 11 W S 13 B T.
 An ironwood tree 6 ins. diam. brs. N. $80\frac{3}{4}^{\circ}$ E. 262 lks. dist., marked T 2 N R 10 W S 18 B T.
 An ironwood tree 8 ins. diam. brs. S. 45° E. 240 lks. dist., marked T 2 N R 10 W S 19 B T.
 An ironwood tree 8 ins. diam. brs. S. $0\frac{1}{2}^{\circ}$ W. 260 lks. dist., marked T 2 N R 11 W S 24 B T.

Land, level, drains E.
 Soil, 2nd rate, sandy, loamy, dry, fine texture.
 Greasewood, paloverde, ironwood, few cacti.

Note: At this cor., at noon, I set off $15^{\circ}54'$ N. on the decl. arc, and observe the sun on the meridian.
 The resulting lat. is $33^{\circ}30'$ N.

North, bet. secs. 13 & 18.
 Over level plain, through dense greasewood.

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 13 in W., and S 18 in E. half, 1914 on S. rim,
 dig pits $18 \times 18 \times 12$ ins. N. & S. of cor. 3 ft. dist. and raise a mound of earth $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high W. of cor.

80.00 Set an iron post 3 ft. long, 3 ins. in diam. 24 ins. in the ground for cor. of secs. 7, 12, 13 & 18, marked on brass cap, 1914 on S. rim,
 T 2 N in N. half,
 R 11 W S 12 in NW.,
 R 10 W S 7 in NE.,
 S 18 in SE., and
 S 13 in SW. quad.; from which,
 An ironwood tree 9 ins. diam. brs. N. $72\frac{3}{4}^{\circ}$ E. 120 lks. dist., marked T 2 N R 10 W S 7 B T.

No other trees in limits.
 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, drains ESE.
 Soil, 1st rate, loamy, fine texture.
 Greasewood, few ironwood and paloverde trees.

Chains.

May 4, 1914.
At 8h a.m., l.m.t., at the cor. of Tps. 1 & 2 N., Rs. 10 & 11 W., as hereinbefore described, I set off 15°51' N. on the decl. arc, and 33°28' N. on the lat. arc, and determine a meridian with the solar. Thence I run, as per instructions, on a line, North, bet. secs. 31 & 36.

- Over rolling, broken land, through dense greasewood, paloverde, ironwood, and sage brush.
- 10.50 Wash, 30 lks. wide, course NE.
- 35.00 Enter draw, course NE.
- 40.00 Point for 1/4 sec. cor., in wash, 20 lks. wide, course NE.
- 40.40 Set an iron post 3 ft. long, 1 in. in diam. 26 ins. in the ground for witness cor. to 1/4 sec. cor., marked on brass cap, W C 1/4 S. of centre, S 36 in NW., and S 31 in NE. quad., 1914 on S. rim, from which, An ironwood tree 48 ins. diam. brs. S. 58° E. 26 lks. dist., marked 1/4 S 31 W C B T. An ironwood tree 14 ins. diam. brs. S. 27° W. 276 lks. dist., marked 1/4 S 36 W C B T.

- 41.50 Leave draw.
- 47.10 Wash, 20 lks. wide, course ENE.
- 57.90 Wash, 40 lks. wide, course NE.
- 64.30 Wash, 30 lks. wide, course E.
- 69.37 Dim old road, brs. NW. & SE.
- 80.00 Point for cor. of secs. 25, 30, 31 & 36, falls in wash, 20 lks. wide, course ENE. Therefore, continue north to
- 80.30 Set an iron post 3 ft. long, 3 ins. in diam. 24 ins. in the ground for witness cor. to cor. of secs. 25, 30, 31 & 36, marked on brass cap, 1914 on S. rim; W C, N. of centre, T 2 N in N. half, R 11 W S 25 in NW., R 10 W S 30 in NE., S 31 in SE., and S 36 in SW. quad.; from which, An ironwood tree 8 ins. diam. brs. N. 71° E. 67 lks. dist., marked T 2 N R 10 W S 30 W C B T. A catclaw tree 4 ins. diam. brs. S. 15° E. 16 lks. dist., marked T 2 N R 10 W S 31 W C B T. An ironwood tree 14 ins. diam. brs. S. 2° W. 60 lks. dist., marked T 2 N R 11 W S 36 W C B T. An ironwood tree 8 ins. diam. brs. N. 23° W. 306 lks. dist., marked T 2 N R 11 W S 25 W C B T.

Land, broken, rolling.
Soil, 2nd rate, sandy, gravelly, dry, coarse texture.
Greasewood, ironwood, paloverde, mesquite, catclaw, few cacti.

-
- North, bet. secs. 25 and 30, from cor. point in wash. Over gently undulating land, through dense brush.
 - 0.30 Wit. cor. to cor. of secs. 25, 30, 31 and 36.
 - 40.00 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 25 in W., and S 30 in E. half, 1914 on S. rim; from which, An ironwood tree 6 ins. diam. brs. S. 15° E. 143 lks. dist., marked 1/4 S 30 B T. An ironwood tree 12 ins. diam. brs. N. 43° W. 182 lks. dist., marked 1/4 S 25 B T.
 - 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 & 30, marked on brass cap, 1914 on S. rim, T 2 N in N. half, R 11 W S 24 in NW., R 10 W S 19 in NE., S 30 in SE., and S 25 in SW. quad.; no bearings available. 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, gently undulating, level. Soil, 2nd rate, sandy, loamy, loose, dry, medium texture. Greasewood, ironwood, paloverde, few cacti.

North Boundary of T. 2 N., R. 9 W.

Chains. East, bet. secs. 1 & 36.
 Over gently rolling 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 in S. half, 1914 on S. rim; dig pits 18x18x12 ins. E. & W. of cor. 3 ft. dist., and raise a mound of earth $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high N. of cor. An ironwood tree 10 ins. diam. brs. N. $42\frac{1}{4}^{\circ}$ E. 128 lks. dist., marked $\frac{1}{4}$ S 36 B T. No other bearings available.
 50.00 Wash, 10 lks. wide, course S.
 56.70 Wash, 10 lks. wide, course SSW.
 63.00 Wash, 30 lks. wide, course SW.
 77.15 Wash, 20 lks. wide, course S.
 80.00 To cor. of Tps. 2 & 3 N., Rs. 8 & 9 W., hereinbefore described. Land, rolling. Soil, 2nd & 3rd rate, sandy, gravelly, dry. Greasewood, sage brush, paloverde, ironwood, cacti.
 May 3, 1914.

--General Description.--

The north boundary of T. 2 N., R. 9 W. runs over a smooth level valley, draining SSE. into the main draw of Centennial Wash. The land to the north of line ascends gently to the mountains about 2 to 5 miles to the north. There is no water nor timber along or near the line.

Boundaries of T. 2 N., R. 9 W.
 Latitudes, departures, and closing errors.

Line Designated.	True bearing.	Dist. Chs.	Latitudes.		Departures.	
			N. Chs.	S. Chs.	E. Chs.	W. Chs.
South Boundary,	West,	479.50	-----	-----	-----	479.50
West Boundary,	North,	480.00	480.00	-----	-----	-----
North Boundary,	East,	479.15	-----	-----	479.15	-----
East Boundary,	South,	480.00	-----	480.00	-----	-----
Convergency,	-----	-----	-----	-----	0.48	-----
Totals,			480.00	480.00	479.63	479.50
			480.00	-----	479.50	-----
Error in Lat.,			0.00	-----	-----	-----
Error in Dep.,			-----	-----	-----	13

Boundaries of T. 1 N., R. 10 W.
 Latitudes Departures and closing errors.

Line Designated	True bearing	Dist.	Latitudes		Departures	
			N. chs.	S. chs.	E. chs.	W. chs.
South Boundary (G. & S.R. Base Line)	West	480.00	-----	-----	-----	480.00
West Boundary	North	480.00	480.00	-----	-----	-----
North Boundary	N. $89^{\circ}57'E$	479.86	.42	-----	479.86	-----
East Boundary	South	480.00	-----	480.00	-----	-----
Convergency	-----	-----	-----	-----	.48	-----
Totals			480.42	480.00	480.34	480.00
			480.00	-----	480.00	-----
Error in Lat.			.42	-----	-----	-----
Error in Dep.			-----	-----	.34	-----

BOOK 2791

56.

North Boundary of T. 2 N., R. 9 W.

Chains.

- East, bet. secs. 4 & 33.
Over level plain, through dense brush.
- 33.20 Main Road, Phoenix & Buckeye to Harrisburg & pts. to W., brs. NW. & SE.
- 40.00 Set an iron post 3 ft. long, 1 in. in diam. 26 ins. in the ground for $\frac{1}{4}$ sec. cor., marked on brass cap,
 $\frac{1}{4}$ S 33 in N., and
S 4 in S. half, 1914 on S. rim;
dig pits 18x18x12 ins. E. & W. of cor. 3 ft. dist., and raise a mound of earth $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high N. of cor.
- 80.00 Set an iron post 3 ft. long, 3 ins. in diam. 24 ins. in the ground for cor. of secs. 3, 4, 33 & 34, marked on brass cap, 1914 on S. rim;
T 3 N in N.,
T 2 N in S., and
R 9 W in W. half,
S 33 in NW.,
S 34 in NE.,
S 3 in SE., and
S 4 in SW. quad.; no bearings available.
Dig pits 18x18x12 ins. in each sec. $5\frac{1}{2}$ ft. dist., and raise a mound of earth 4 ft. base 2 ft. high W. of cor.
Land, level, drains SSE.
Soil, 2nd rate, sandy, loamy, gravelly, loose, dry.
Greasewood, sage brush, few paloverde and cacti.
-
- East, bet. secs. 3 and 34.
Over level plain, drains SSE., 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 34 in N., and
S 3 in S. half, 1914 on S. rim;
dig pits 18x18x12 ins. E. & W. of cor. 3 ft. dist., and raise a mound of earth $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high N. of cor.
- 43.90 Dim old road, brs. N. & S.
- 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 & 35, marked on brass cap, 1914 on S. rim,
T 3 N in N.,
T 2 N in S., and
R 9 W in W. half,
S 34 in NW.,
S 35 in NE.,
S 2 in SE., and
S 3 in SW. quad.; no bearings available.
Dig pits 18x18x12 ins. in each sec. $5\frac{1}{2}$ ft. dist., and raise a mound of earth 4 ft. base 2 ft. high W. of cor.
Land, level, gently undulating.
Soil, 2nd rate, sandy, gravelly, loose, dry.
Greasewood, sage brush, few cacti and paloverde trees.
-
- East, bet. secs. 2 & 35.
Over gently undulating 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 35 in N., and
S 2 in S. half, 1914 on S. rim; from which,
A mesquite tree 4 ins. diam. brs. N. 71° E. 74 lks. dist., marked $\frac{1}{4}$ S 35 B T.
A mesquite tree 6 ins. diam. brs. S. 49° E. 163 lks. dist., marked $\frac{1}{4}$ S 2 B T.
- 50.80 Dim, old wagon trail, brs. NNW. & SSE.
- 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 & 36, marked on brass cap, 1914 on S. rim,
T 3 N in N., T 2 N in S., & R 9 W, in W. half,
S 35 in NW., S 36 in NE.,
S 1 in SE. & S 2 in SW. quad.;
dig pits 18x18x12 ins. in each sec. $5\frac{1}{2}$ ft. dist., and raise a mound of earth 4 ft. base 2 ft. high W. of cor.
Land, level, drains SSE. Soil, 2nd rate, sandy, gravelly,
Greasewood, sage brush, few cacti,

Chains. May 3, 1914.
 At 8h a.m., l.m.t., at the cor. of Tps. 2 & 3 N., Rs. 8 & 9 W., as previously established by me, as hereinbefore described,
 I set off $15^{\circ}34'$ N. on the decl. arc, and $33^{\circ}33'$ N. on the lat. arc, and determine a meridian with the solar.
 Thence I run, as per instructions,
 West, on a random line, setting temp. cors. at intervals of 40.00 chs.
 At 5 miles, 79.15 chs. I intersect cor. of Tps. 2 & 3 N., Rs. 9 & 10 W., as previously established by J. F. Hesse, and by him described, in Book "B.W.", on a true line, Var. $14^{\circ}20'$ E.
 East, bet. secs. 6 & 31.
 Over level plain, through dense greasewood, sage brush,
 39.15 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 31 in N., and
 S 6 in S. half, 1914 on S. rim;
 dig pits 18x18x12 ins. E. & W. of cor. 3 ft. dist., and raise a mound of earth $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high N. of cor. No bearings available.
 79.15 Set an iron post 3 ft. long 3 ins. in diam. 24 ins. in the ground for cor. of secs. 5, 6, 31 & 32, marked on brass cap, 1914 on S. rim,
 T 3 N in N.,
 T 2 N in S., and
 R 9 W in W. half,
 S 31 in NW.,
 S 32 in NE.,
 S 5 in SE., and
 S 6 in SW. quad.; no bearings available.
 Dig pits 18x18x12 ins. in each sec. $5\frac{1}{2}$ ft. dist., and raise a mound of earth 4 ft. base 2 ft. high W. of cor. Land, level. Soil, 1st rate, loamy, sandy, fine texture. Greasewood, sage brush.

East, bet. secs. 5 & 32.
 Over level plain, drains SE., through dense low 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 32 in N., and
 S 5 in S. half, 1914 on S. rim;
 dig pits 18x18x12 ins. E. & W. of cor. 3 ft. dist., and raise a mound of earth $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high N. of cor.
 80.00 Set an iron post 3 ft. long, 3 ins. in diam. 24 ins. in the ground for cor. of secs. 4, 5, 32 & 33, marked on brass cap, 1914 on S. rim,
 T 3 N in N.,
 T 2 N in S., and
 R 9 W in W. half,
 S 32 in NW.,
 S 33 in NE.,
 S 4 in SE., and
 S 5 in SW. quad.;
 dig pits 18x18x12 ins. in each sec. $5\frac{1}{2}$ ft. dist., and raise a mound of earth 4 ft. base 2 ft. high W. of cor. Land, level. Soil, 2nd rate, loamy, sandy, dry, loose. Greasewood, sage brush, few cacti and paloverde.

Note: At this cor., at noon, I set off $15^{\circ}36\frac{1}{2}'$ N. on the decl. arc, and observe the sun on the meridian.
 The resulting lat. is $33^{\circ}32\frac{1}{2}'$ N.

Chains.

T 2 N in N., T 1 N in S. & R 10 W in W. half,
 S 33 in NW., S 34 in NE., S 3 in SE., and
 S 4 in SW. quad.; no bearings available.
 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, 2nd rate, loamy, loose, dry, sandy.
 Greasewood, paloverde, ironwood, few cacti.

N. 89°57' E. bet. secs. 3 & 34.
 Over level plain, 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 34 in N., and S 3 in S. half,
 1914 on S. rim; from which,
 An ironwood tree 6 ins. diam. brs. N. 59° W. 133 lks. dist.,
 marked ¼ S 34 B T.
 An ironwood tree 8 ins. diam. brs. S. 4½° E. 148 lks. dist.,
 marked ¼ S 3 B T.
 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 & 35, marked on
 brass cap, 1914 on S. rim,
 T 2 N in N., T 1 N in S. & R 10 W in W. half,
 S 34 in NW., S 35 in NE., S 2 in SE., and
 S 3 in SW. quad.; no bearings available.
 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, 2nd rate, loamy, loose, sandy, dry.
 Greasewood, paloverde, sage brush, few cacti.

N. 89°57' E. bet. secs. 2 & 35.
 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 35 in N., and S 2 in S. half,
 1914 on S. rim; no bearings available.
 Dig pits 18x18x12 ins. E. & W. of cor. 3 ft. dist., and
 raise a mound of earth 3½ ft. base, 1½ ft. high N. of cor.
 80.00 Set an iron post 3 ft. long, 3 ins. in diam. 24 ins. in
 the ground for cor. of secs. 1, 2, 35 & 36, marked on
 brass cap, 1914 on S. rim,
 T 2 N in N., T 1 N in S., and R 10 W. in
 W. half, S 35 in NW., S 36 in NE., S 1 in SE., and
 S 2 in SW. quad.; no bearings available.
 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, 1st & 2nd rate, loamy, fine texture.
 Greasewood, few paloverde and ironwood trees and cacti.

N. 89°57' E. bet. secs. 1 & 36.
 Over level plain, 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 N., and S 1 in S. half,
 1914 on S. rim; no bearings available.
 Dig pits 18x18x12 ins. E. & W. of cor. 3 ft. dist., and
 raise a mound of earth 3½ ft. base, 1½ ft. high N. of cor.
 80.00 To cor. of Tps. 1 & 2 N., Rs. 9 & 10 W., hereinbefore
 described.
 Land, level. Soil, 1st rate, loamy, sandy, fine texture.
 Greasewood, few cacti, paloverde, mesquite and ironwoods.

General Description.

The N. bdy. of T. 1 N., R. 10 W. runs over a rolling
 plain near the N. slope of N. foothills of the Eagle Tail
 mountains in the W. 3 miles, thence entering the smooth,
 level plain or valley of the Centennial Draw, to the East.
 There is no water nor timber on or near the line.

April 26, 1914.

Chains.

N. 89°57' E. bet. secs. 6 & 31.
 Over rolling, broken land, through dense brush.
 4.30 Wash, 40 lks. wide, course NNE.
 29.00 Wash, 40 lks. wide, course NE.
 35.10 Old dim road, brs. NNW. & SSE.
 39.86 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 31 in N., and
 S 6 in S. half, 1914 on S. rim; from which,
 A paloverde tree 15 ins.diam.brs.N.69°E. 135 lks. dist.,
 marked $\frac{1}{4}$ S 31 B T.
 A paloverde tree 10 ins.diam.brs.S.84°E. 83 lks. dist.,
 marked $\frac{1}{4}$ S 6 B T.
 56.50 Wash, 80 lks. wide, course NNE.
 62.00 Wash, 30 lks. wide, course NE.
 79.86 Set an iron post 3 ft. long, 3 ins. in diam. 24 ins. in
 the ground for cor. of secs. 5, 6, 31 & 32, marked on
 brass cap, 1914 on S. rim,
 T 2 N in N., T 1 N in S. & R 10 W in W. half,
 S 31 in NW., S 32 in NE.,
 S 5 in SE. & S 6 in SW. quad.; from which,
 A paloverde tree 6 ins.diam.brs.N.82°E. 46 lks. dist.,
 marked T 2 N R 10 W S 32 B T.
 A paloverde tree 12 ins.diam.brs.S.3 $\frac{1}{4}$ °E. 159 lks. dist.,
 marked T 1 N R 10 W S 5 B T.
 No other trees available. Pits impracticable.
 Raise a mound of stone 2 ft. base, 1 $\frac{1}{2}$ ft. high W. of cor.
 Land, rolling. Soil, 2nd rate, gravelly, dry, sandy.
 Greasewood, paloverde, few mesquites and ironwoods.

N. 89°57' E. bet. secs. 5 & 32.
 Over level, or gently rolling land, through dense brush.
 7.30 Wash, 90 lks. wide, course N.
 11.00 Old road, brs. SW. & NE.
 20.00 Wash, 30 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 32 in N. and S 5 in S. half,
 1914 on S. rim; pits impracticable.
 Raise a mound of stone 2 ft. base, 1 $\frac{1}{2}$ ft. high N. of cor.
 80.00 Set an iron post 3 ft. long, 3 ins. in diam. 24 ins. in
 the ground for cor. of secs. 4, 5, 32 & 33, marked on
 brass cap, 1914 on S. rim,
 T 2 N in N., T 1 N in S. & R 10 W in W. half,
 S 32 in NW., S 33 in NE.,
 S 4 in SE. & S 5 in SW. quad.; from which,
 A paloverde tree 10 ins.diam.brs.N.39°E. 162 lks. dist.,
 marked T 2 N R 10 W S 33 B T.
 An ironwood tree 8 ins.diam.brs.N.5 $\frac{1}{4}$ °W. 205 lks. dist.,
 marked T 2 N R 10 W S 32 B T.
 An ironwood tree 8 ins.diam.brs.S.55°E. 31 lks. dist.,
 marked T 1 N R 10 W S 4 B T.
 A mesquite tree 4 ins.diam.brs.S.36 $\frac{1}{2}$ °W. 33 lks. dist.,
 marked T 1 N R 10 W S 5 B T.
 Land, gently rolling, level. Soil, 2nd rate, loamy, dry.
 Greasewood, ironwood, paloverde, sage brush, few cacti.
 Note: At this cor., at noon, high gusts of wind render it im-
 practicable to make satisfactory obs. for lat.

N. 89°57' E. bet. secs. 4 & 33.
 Over level plain, through dense brush.
 34.00 Wash, 20 lks. wide, course NW.
 40.00 Set an iron post 3 ft. long, 1 in. in diam. 26 ins. in
 the ground for $\frac{1}{4}$ sec. cor., marked on brass cap, 1914 on
 S. rim; $\frac{1}{4}$ S 33 in N., and S 4 in S. half, from which,
 An ironwood tree 14 ins.diam.brs.N.70°E. 64 lks. dist.,
 marked $\frac{1}{4}$ S 33 B T.
 An ironwood tree 12 ins.diam.brs.S.20°E. 309 lks. dist.,
 marked $\frac{1}{4}$ S 4 B T.
 80.00 Set an iron post 3 ft. long, 3 ins. in diam. 24 ins. in
 the ground for cor. of secs. 3, 4, 33 & 34, marked on
 brass cap, 1914 on S. rim,

Chains.

- North, bet. secs. 1 & 6.
Over broken, rolling land, through dense brush.
- 39.10 Wash, 10 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 1 in W., and S 6 in E. half, 1914 on S. rim; from which, An ironwood tree 12 ins. diam. brs. S. 43° E. 56 lks. dist., marked $\frac{1}{4}$ S 6 R T. An ironwood tree 14 ins. diam. brs. S. 32° W. 83 lks. dist., marked $\frac{1}{4}$ S 1 B T.
- 51.00 Wash, 50 lks. wide, course NE.
- 70.00 Wash, 90 lks. wide, course NE.
- 78.50 Stone monument, line of Yuma & Maricopa Counties, brs. East, 14 lks. dist.,
- 80.00 Set an iron post 3 ft. long, 3 ins. in diam. 24 ins. in the ground for cor. of Tps. 1 & 2 N., Rs. 10 & 11 W., marked on brass cap, 1914 on S. rim, T 2 N in N., T 1 N in S., R 10 W in E., and R 11 W in W. half, S 36 in NW., S 31 in NE., S 6 in SE., and S 1 in SW. quad.; from which, A paloverde tree 6 ins. diam. brs. N. 24° E. 72 lks. dist., marked T 2 N R 10 W S 31 B T. A paloverde tree 24 ins. diam. brs. S. 30° E. 194 lks. dist., marked T 1 N R 10 W S 6 B T. A paloverde tree 12 ins. diam. brs. S. 75° W. 200 lks. dist., marked T 1 N R 11 W S 1 B T. A paloverde tree 9 ins. diam. brs. N. $36\frac{1}{2}^{\circ}$ W. 196 lks. dist., marked T 2 N R 11 W S 36 B T. Eagle Tail Peak brs. S. $22^{\circ}43'$ E. A lone, sharp barren rocky peak brs. S. $89^{\circ}06'$ W., about $\frac{1}{2}$ miles, (By close triangulation.) Buckhorn Peak brs. N. $46^{\circ}55'$ E. Saddle Back peak brs. S. $84^{\circ}20'$ E. Magnetic variation at this cor. is $14^{\circ}25'$ E. Land, broken, rolling. Soil, 2nd & 3rd rate, gravelly, sandy, dry, loose, coarse texture.

General Description.

The W. bdy. of T. 1 N., R. 10 W. runs over rocky malpais land for S. $1\frac{1}{2}$ miles, trending into granite formation then, and ascending the Eagle Tail Mts. The N. 2 miles drops into the broken valley to NW. of a range of granite hills, the N. foot hill of the Eagle Tail Mts. The land E. & WW. of line is rough, broken and mountainous.

April 25, 1914.

North Boundary of T. 1 N., R. 10 W.

April 26, 1914.

At 8h a.m., l.m.t., at the cor. of Tps. 1 & 2 N., Rs. 9 & 10 W., on the recently established by me, and hereinbefore described, I set off $13^{\circ}23\frac{1}{2}'$ N. on the ~~led~~ arc, and $33^{\circ}28'$ N. on the lat. arc, and determine a meridian with the solar. Thence I run, as per instructions, sec. West, on a random line, setting temp. $\frac{1}{4}$ and sec. cors. at intervals of 40 chs. At 5 miles, 79.86 chs. I fall 42 lks. N. of the cor. of Tps. 1 & 2 N., Rs. 10 & 11 W., hereinbefore described, whence I run, on a true line, Var. $14^{\circ}25'$ E.

Chains.	
	North, bet. secs. 13 & 18. Over mts. land, desc.
3.00	Asc. SW. slope.
13.00	Asc. prec., bluff 100 ft. high, brs. ENE. & WSW.
15.90	Top of high rocky divide, main divide of Eagle Tail Mts., brs. E. & WNW. A mound of stone with notice in tin can, on line of Yuma and Maricopa Counties, Ariz. brs. West, 14 lks. dist.
17.50	Sharp pinnacle on line 50 ft. high, impracticable to set my instrument on this point for projecting my line ahead; therefore I set a flag on this pinnacle on exact line and by repeated trials set my instrument on line due north of flag, Desc. prec. N. slope, very rough and stony.
40.00	Foot of main slope, brs. WSW. & NE. 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 13 in W., and S 18 in E. half, 1914 on S. rim; No bearings available, pits impracticable. Raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high W. of cor.
53.50	Gulch, 30 lks. wide, course W., asc.
62.25	Spur, brs. W. & E., desc.
80.00	Set an iron post 3 ft. long, 3 ins. in diam. 24 ins. in the ground for cor. of secs. 7, 12, 13 & 18, marked on brass cap, 1914 on S. rim, T 1 N in N. half, R 11 W S 12 in NW., R 10 W S 7 in NE., S 18 in SE., and S 13 in SW. quad.; pits impracticable. Raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high W. of cor. Land, mts., rough, broken. Soil, stony, 3rd rate. Greasewood, cacti, few scrub paloverde and ironwoods.
<hr/>	
	North, bet. secs. 7 & 12. Over broken, gravelly land, low granite ridges.
11.70	Gulch, 40 lks. wide, course NE.
31.50	Gulch, 20 lks. wide, course NE.
34.68	Road, brs. NW. & SE.
37.00	Small knob, brs. NW. & SE.
39.85	Small monument of stone on line.
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 12 in W., and S 7 in E. half, 1914 on S. rim; from which, A paloverde tree 12 ins. diam. brs. S. $8\frac{1}{2}^{\circ}$ W. 62 lks. dist., marked $\frac{1}{4}$ S 12 B T. A paloverde tree 6 ins. diam. brs. N. 42° E. 66 lks. dist., marked $\frac{1}{4}$ S 7 B T.
74.60	Wash, 35 lks. wide, course NE.
75.15	Old road, brs. WNW. & ESE.
80.00	Set an iron post 3 ft. long, 3 ins. in diam. 24 ins. in the ground for cor. of secs. 1, 6, 7 & 12, marked on brass cap, 1914 on S. rim, T 1 N in N. half, R 11 W S 1 in NW., R 10 W S 6 in NE., S 7 in SE., and S 12 in SW. quad.; from which, A paloverde tree 8 ins. diam. brs. S. 60° E. 97 lks. dist., marked T 1 N R 10 W S 7 B T. A paloverde tree 12 ins. diam. brs. N. 26° W. 265 lks. dist., marked T 1 N R 11 W S 1 B T. No other bearings available, pits impracticable. Raise a mound of stone 3 ft. base, 2 ft. high W. of cor. A monument of stone on line of Yuma & Maricopa Counties brs. East, 20 lks. dist. Land, stony, broken, heavily rolling. Soil, 3rd rate, stony, gravelly, Greasewood, paloverde, few ironwood trees and cacti.

50.

Chains.

- 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 & 30, marked on brass cap, 1914 on S. rim,
 T 1 N in N. half,
 R 11 W S 24 in NW.,
 R 10 W S 19 in NE.,
 S 30 in SE., and
 S 25 in SW. quad.; from which,
 An ironwood tree 10 ins. diam. brs. S. 49° W. 118 lks. dist.,
 marked T 1 N R 11 W S 25 B T.
 A paloverde tree 10 ins. diam. brs. N. 76° W. 91 lks. dist.,
 marked T 1 N R 11 W S 24 B T. No other
 bearings available, pits impracticable.
 Raise a mound of stone 2 ft. base $1\frac{1}{2}$ ft. high W. of cor.
 Land, broken.
 Soil, 3rd rate, stony, gravelly, dry.
 Greasewood, cacti, paloverde, ironwood.

North, bet. secs. 19 & 24.

- Over broken, stony land, through dense brush.
 26.00 Stony wash, 30 lks. wide, course SW.
 Point for $\frac{1}{4}$ sec. cor. will fall in wash, therefore, at
 39.30 Set an iron post 3 ft. long, 1 in. in diam. 26 ins. in the ground for witness cor. to $\frac{1}{4}$ sec. cor., marked on brass cap, 1914 on S. rim,
 W C $\frac{1}{4}$ N. of centre,
 S 19 in SE., and
 S 24 in SW. quad.; no bearings available,
 pits impracticable. Raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high W. of cor.
 40.00 Pt. for $\frac{1}{4}$ sec. cor. in gulch, 50 lks. wide, course SE. Ascend steep.
 56.00 Top of rocky ridge, brs. WNW. & ESE., ends about 15 chs. to SE.,
 58.00 Desc. steep NNE. slope.
 64.00 Foot, brs. NW. & SE., gulch 40 lks. wide, course ESE. Asc.
 79.90 Top of granite pinnacle, 15 ft. high, desc. abrupt.
 80.00 Set an iron post 3 ft. long, 3 ins. in diam., on bed-rock, in mound of stone for cor. of secs. 13, 18, 19 & 24, marked on brass cap, 1914 on S. rim,
 T 1 N in N. half,
 R 11 W S 13 in NW.,
 R 10 W S 18 in NE.,
 S 19 in SE., and
 S 24 in SW. quad.; pits impracticable.
 Raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high W. of cor.
 Land, broken, heavily rolling.
 Soil, 3rd rate, stony, dry.
 Greasewood, sage brush, cacti, paloverde, few ironwoods.
 Note: At this cor., at noon, I set off 13° 07' N. on the decl. arc, and observe the sun on the meridian.
 The resulting lat. is 33° 25' N.

Chains.

April 25, 1914.

At 8h a.m., l.m.t., at my tangential point, 24 1/2 lks. S. of the Std. cor. of Tps. 1 N., Rs. 10 & 11 W, recently established by me, I deflect an angle of 89°56 1/2' from my tangent line to the east, S. of Gila & Salt River Base Line, as described in book "C"; this angle of 89°56 1/2' from E. to N. gives a theoretic meridian, brought from true meridian previously established from observation of Polaris at Std. cor. of Tps. 1 N., Rs. 9 & 10 W.

Since the sky is overcast, and weather unfavorable for solar observation, I run on this theoretic meridian, as per instructions, Var. 14°30' E., by back & fore sight, North, bet. secs. 31 & 36, measure from cor. Over rough, mts., stony land, desc. steep.

- 7.00 Gulch, 30 lks. wide, course W., asc. steep.
- 16.00 Top of rocky malpais spur, brs. W. & E., desc. steep.
- 30.00 Foot of main slope, brs. E. & W., desc. grad.
- 33.50 Gulch, 40 lks. wide, course SW., asc. grad.
- 40.00 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 W., and S 31 in E. half, 1914 on S. rim;

No bearings available, pits impracticable. Raise a mound of stone 2 ft. base 1 1/2 ft. high W. of cor.

- 57.00 Top of rise, E. slope of spur, from high rocky malpais hill to W., brs. E. & W., desc. NE. slope.

- 69.00 Gulch, 30 lks. wide, course SE., asc. grad.

- 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 & 36, marked on brass cap, 1914 on S. rim,

T 1 N in N. half,
R 11 W S 25 in NW.,
R 10 W S 30 in NE.,
S 31 in SE., and
S 36 in SW. quad.; from which,

A paloverde tree 10 ins. diam. brs. N. 3 1/2° E. 214 lks. dist., marked T 1 N R 10 W S 30 B T.

A paloverde tree 12 ins. diam. brs. S. 33° E. 190 lks. dist., marked T 1 N R 10 W S 31 B T.

A paloverde tree 10 ins. diam. brs. S. 19° W. 182 lks. dist., marked T 1 N R 11 W S 36 B T.

A paloverde tree 7 ins. diam. brs. N. 27 1/4° W. 260 lks. dist., marked T 1 N R 11 W S 25 B T.

Land, mts., broken, rolling.
Soil, 3rd rate, stony, dry, coarse texture.
Greasewood, sage brush, cacti, paloverde.

Note: At this cor., at 9h 30m a.m., l.m.t., I set off 13°05' N. on the decl. arc, and 33°23 1/2' N. on the lat. arc, and determine a meridian with the solar, which meridian agrees with the line of the theoretic meridian as above determined.

North, bet. secs. 25 & 30.

Over broken, heavily rolling land, through dense brush.

- 3.00 Wash, 10 lks. wide, course SW.
- 40.00 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 25 in W., and
S 30 in E. half, 1914 on S. rim; from which,

A paloverde tree 12 ins. diam. brs. S. 31° W. 28 lks. dist., marked 1/4 S 25 B T.

A paloverde tree 6 ins. diam. brs. N. 25° E. 29 lks. dist., marked 1/4 S 30 B T.

- 41.70 Wash, 20 lks. wide, course SW.
- 56.30 Wash, 20 lks. wide, course SW.
- 77.00 High granite bluff brs. East, about 7 chs. dist. to foot, faces W., brs. N. & S.

Chains.

East, bet. secs. 2 & 35.
 Over level land, through dense low 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 35 in N., and S 2 in S. half, 1914 on S. rim; dig pits 18x18x12 ins. E. & W. of cor. 3 ft. dist., and raise a mound of earth $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high N. of cor.
 80.00 Set an iron post 3 ft. long, 3 ins. in diam. 24 ins. in the ground for cor. of secs. 1, 2, 35 & 36, marked on brass cap, 1914 on S. rim, T 2 N in N., T 1 N in S., and R 9 W in W. half, S 35 in NW., S 36 in NE., S 1 in SE., and S 2 in SW. quad.; from which,
 A mesquite tree 6 ins. diam. brs. N. $37\frac{1}{2}^{\circ}$ W. 99 lks. dist., marked T 2 N R 9 W S 35 B T.
 A mesquite tree 6 ins. diam. brs. N. $88\frac{1}{2}^{\circ}$ E. 204 lks. dist., marked T 2 N R 9 W S 36 B T.
 A mesquite tree 4 ins. diam. brs. S. $26\frac{1}{2}^{\circ}$ E. 177 lks. dist., marked T 1 N R 9 W S 1 B T.
 A mesquite tree 6 ins. diam. brs. S. 67° W. 240 lks. dist., marked T 1 N R 9 W S 2 B T.
 Land, level. Soil, 2nd rate, loamy, sandy, loose, dry. Greasewood, mesquite, sage brush, few cacti.

East, bet. secs. 1 & 36.
 Over level plain, through scattering 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 in S. half, 1914 on S. rim; dig pits 18x18x12 ins. E. & W. of cor. 3 ft. dist., and raise a mound of earth $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high N. of cor.
 80.00 To cor. of Tps. 1 & 2 N., Rs. 8 & 9 W., hereinbefore established and described.
 Land, level. Soil, 2nd rate, loamy, loose, sandy, dry. Greasewood, sage brush, scrub mesquite and paloverde.

General Description.

The west and north boundaries of T. 1 N., R. 9 W. run over a smooth level plain, drainage in general to the SE. The land is covered in general with dense greasewood sage brush, with but little native grass; some mesquite, paloverde and ironwood in places.

There is no water nor timber on or near the lines.

Boundaries of T. 1 N., R. 9 W.
 Latitudes, departures and closing errors.

Line designated.	True bearing.	Dist..	Latitudes.		Departures.	
			N.	S.	E.	W.
South Boundary (G. & S. R. Base Line)	West,	Chs.	Chs.	Chs.	Chs.	Chs.
West Boundary,	North,	480.00	480.00	-----	-----	480.00
North Boundary,	East,	479.50	-----	-----	479.50	-----
East Boundary,	South,	480.00	-----	480.00	-----	-----
Convergency,	-----	-----	-----	-----	0.48	-----
Totals,		-----	480.00	480.00	479.98	480.00
			480.00	-----	-----	479.98
Error in lat.,		-----	0.00	Error in dep.,	0.02	

Note :- To the critic.

Above closure seems almost impossible, but being correct, I have to report the facts. April 13, 1914. J.B.W.

Chains.	East, bet. secs. 4 & 33. Over level plain, through dense low 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 33 in N., and S 4 in S. half, 1914 on S. rim; dig pits 18x18x12 ins. E. & W. of cor. 3 ft. dist., and raise a mound of earth $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high N. of cor.
57.48	Old road, brs. WNW. & ESE.
80.00	Set an iron post 3 ft. long, 3 ins. in diam. 24 ins. in the ground for cor. of secs. 3, 4, 33 & 34, marked on brass cap, 1914 on S. rim, T 2 N in N., T 1 N in S., and R 9 W in W. half, S 33 in NW., S 34 in NE., S 3 in SE., and S 4 in SW. quad., no bearings available. Dig pits 18x18x12 ins. in each sec. $5\frac{1}{2}$ ft. dist., and raise a mound of earth 4 ft. base 2 ft. high W. of cor. Land, level. Soil, 2nd rate, sandy, gravelly, loose, dry. Greasewood, sage brush, few paloverde and scrub mesquite.
<hr/>	
	East, bet. secs. 3 & 34. Over level plain, drains to SE., 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 34 in N., and S 3 in S. half, 1914 on S. rim; dig pits 18x18x12 ins. E. & W. of cor. 3 ft. dist., and raise a mound of earth $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high N. of cor.
61.20	Old road, brs. NW. & SE.
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 & 35, marked on brass cap, 1914 on S. rim, T 2 N in N., T 1 N in S., and R 9 W in W. half, S 34 in NW., S 35 in NE., S 2 in SE., and S 3 in SW. quad.; dig pits 18x18x12 ins. in each sec. $5\frac{1}{2}$ ft. dist., and raise a mound of earth 4 ft. base 2 ft. high W. of cor. Land, level. Soil, 1st and 2nd rate, loamy, sandy, loose, dry. Greasewood, sage brush, scattering scrub mesquite.

46. North hdy. of Township 1 North, Range 9 West.

Chains.

April 13, 1914.

At 8h.a.m., l.m.t., at the cor. of Ts. 1 and 2 N., Rs. 8 and 9 W., recently established by me as hereinbefore described, I set off 8°54' N. on the decl. arc; and 33°28' N. on the lat. arc; and determine a meridian with the solar. Thence I run, as per instructions, setting temp. ¼ sec. and sec. cors. at intervals of 40 chs.

West, on a random line.

At 5 miles, 79.50 chs., I intersect the cor. of Ts. 1 and 2 N., Rs. 9 and 10 W., hereinbefore described; whence I run, on a true line, East, bet. secs. 6 and 31.

Var. 14.15' E.

Over level land, through dense greasewood, sage brush, few scrub mesquite, palo verde and ironwood trees.

39.50 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 31 in N., and

S 6 in S. half;

1914 on S. rim;

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

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

1914 on S. rim,

T 1 N in S.,

T 2 N in N., and

R 9 W in W. half;

S 31 in NW.,

S 32 in NE.,

S 5 in SE., and

S 6 in SW. quadrant; from which,

A mesquite tree, 10 ins. in diam., brs. N. 86½° W., 128 lks. dist., marked T 2 N R 9 W S 31 B T.

A mesquite tree, 18 ins. in diam., brs. N. 70° E., 350 lks. dist., marked T 2 N R 9 W S 32 B T.

A mesquite tree, 8 ins. in diam., brs. S. 55½° E., 50 lks. dist., marked T 1 N R 9 W S 5 B T.

A mesquite tree, 10 ins. diam., brs. S. 14½° W., 177 lks. dist., marked T 1 N R 9 W S 6 B T.

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, gently undulating.

Soil, 2nd rate, sandy, gravelly, dry, loose.

Note: At this cor. at noon, I set off 8°57½' N. on the decl. arc; and observe the sun on the meridian; the resulting lat. is 33°28' N.

East, bet. secs. 5 and 32.

Over level plain, drains to ESE., 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 32 in N., and

S 5 in S. half; 1914 on S. rim;

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

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

1914 on S. rim;

T 2 N in N.,

T 1 N in S., and

R 9 W in W. half;

S 32 in NW.,

S 33 in NE.,

S 4 in SE., and S 5 in SW. quadrant; no bearings available. 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, gently undulating.

Soil, 2nd rate, sandy, loose, dry.

Greasewood, sage brush, few cacti, scrub mesquite.

West boundary of Township 1 North, Range 9 West. 45.

Chains.

North, bet. secs. 7 and 12.
Over gently rolling land, drains to east, through dense brush.

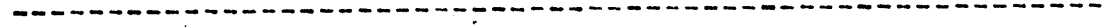
40.00 Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked on brass cap,
 $\frac{1}{4}$ S 12 in W., and
S 7 in E. half;
1914 on S. rim; from which,
An ironwood tree, 9 ins. in diam., brs. N. $12\frac{3}{4}$ ° W., 206 lks. dist., marked $\frac{1}{4}$ S 12 B T.

No other trees available. Dig pits 18x18x12 ins. N. and S. of cor. 3 ft. dist., and raise a mound of earth $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high, W. of cor.

80.00 Set an iron post 3 ft. long, 3 ins. in diam., 24 ins. in the ground, for cor. of secs. 1, 6, 7 and 12, marked on brass cap,
1914 on S. rim,
T 1 N in N. half;
R 10 W S 1 in NW.,
R 9 W S 6 in NE.,
S 7 in SE., and
S 12 in SW. quadrant;

no bearings available. Dig pits 18x18x12 ins., in each sec. $5\frac{1}{2}$ ft. dist., and raise a mound of earth 4 ft. base, 2 ft. high, W. of cor.

Land, level, gently rolling.
Soil, 2nd rate, sandy, gravelly, loose, stony in places.
Greasewood, sage brush, few palo verde and ironwood trees.



North, bet. secs. 1 and 6.
Over gently undulating land, drains to E., through dense greasewood and sage 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., and
S 6 in E. half;
1914 on S. rim;

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

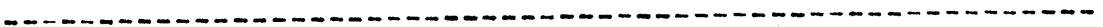
80.00 Set an iron post, 3 ft. long, 3 ins. in diam., 24 ins. in the ground, for cor. of T 2 N and 2 N., R 9 and 10 W., marked on brass cap,

1914 on S. rim,
T 2 N in N.,
T 1 N in S.,
R 9 W in E., and
R 10 W in W. half;
S 36 in NW.,
S 31 in NE.,
S 6 in SE., and
S 1 in SW. quadrant;

no trees available. Dig pits 24x24x12 ins. on each line, N., E. and W. 4 ft., and S. of cor. 8 ft. dist., and raise a mound of earth 5 ft. base, $2\frac{1}{2}$ ft. high, S. of cor.

From this Tp. cor.,
South pinnacle Eagle Nail Peak, brs. S. $44^{\circ}49'$ W., about 5 miles dist.
Buckhorn Peak brs. N. $25^{\circ}16'$ E., about 20 miles dist.
Highest peak, Saddle Back Mts. brs. S. $81^{\circ}13'$ E., about 11 miles dist.
Magnetic variation, $14^{\circ}15'$ E.

April 12, 1914.



Chains.

- North, bet. secs. 19 & 24.
Over level plain, through dense low brush.
- 7.00 Road, brs. ESE. & WNW.
- 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 24 in W., and
S 19 in E. half, 1914 on S. rim;
dig pits 18x18x12 ins. N. & S. of cor. 3 ft. dist., and raise a mound of earth $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high W. of cor.
- 80.00 Set an iron post 3 ft. long, 3 ins. in diam. 24 ins. in the ground for cor. of secs. 13, 18, 19 & 24, marked on brass cap, 1914 on S. rim,
T 1 N in N. half,
R 10 W S 13 in NW.,
R 9 W S 18 in NE.,
S 19 in SE., and
S 24 in SW. quad.;
dig pits 18x18x12 ins. in each sec. $5\frac{1}{2}$ ft. dist., and raise a mound of earth 4 ft. base 2 ft. high W. of cor.
Land, level. Soil, 2nd rate, sandy, gravelly, loose, dry. Greasewood, sage brush, few cacti.
-
- North, bet. secs. 13 & 18.
Over level plain, through dense greasewood.
- 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 13 in W., and
S 18 in E. half, 1914 on S. rim;
dig pits 18x18x12 ins. N. & S. of cor. 3 ft. dist., and raise a mound of earth $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high W. of cor.
- 80.00 Set an iron post 3 ft. long, 3 ins. in diam. 24 ins. in the ground for cor. of secs. 7, 12, 13 & 18, marked on brass cap, 1914 on S. rim,
T 1 N in N. half,
R 10 W S 12 in NW.,
R 9 W S 7 in NE.,
S 18 in SE., and
S 13 in SW. quad.; from which,
An ironwood tree 24 ins. diam. brs. N. 69° E. 78 lks. dist., marked T 1 N R 9 W S 7 B T.
No other bearings available.
Dig pits 18x18x12 ins. in each sec. $5\frac{1}{2}$ ft. dist., and raise a mound of earth 4 ft. base, 2 ft. high W. of cor.
Land, level.
Soil, 2nd rate, gravelly, loose, sandy, dry, loamy. Greasewood, sage brush, few ironwood trees and cacti.
- Note: At this cor. at noon, I set off $8^{\circ}36'$ N. on the decl. arc, and observe the sun on the meridian.
The resulting lat. is $33^{\circ}26'$ N.

Chains.

April 12, 1914.

At 8h a.m., l.m.t., at the std. cor. of Tps. 1 N., Rs. 9 & 10 W., (G. and S. R. Base line) as described in book "C."

I set off 8°35' N. on the decl. arc, and 33°22½' N. on the lat. arc, and determine a meridian with the solar, and mark a point in this meridian by a tack in the stake 5 chs. N. of my station, on the true meridian as established by me on evening of Apr. 11th, heretofore described in book "C", of Survey of Gila and Salt River Base Line. My solar point falls .25 ins. E. of the point in the meridian established by Polaris.

I set my instrument on the true meridian established from Polaris observation, and run thence, by back & fore sight, as per instructions, Var. 14°30' E.

North, between secs. 31 & 36.

Over level plain, through dense greasewood, sage brush, few paloverde and scrub mesquite bushes.

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., and S 31 in E. half, 1914 on S. rim;

dig pits 18x18x12 ins. N. & S. of cor. 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. 25, 30, 31 & 36, marked on brass cap, 1914 on S. rim,

T 1 N in N. half,
R 10 W S 25 in NW.,
R 9 W S 30 in NE.,
S 31 in SE., and
S 36 in SW. quad.; from which,

An ironwood tree 6 ins. diam. brs. N. 28° E. 57 lks. dist., marked T 1 N R 9 W S 29 B T.

No other bearings available;

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, drains to E.

Soil, 2nd rate, sandy, gravelly, loose, dry.

Greasewood, paloverde, few mesquite trees.

North, bet. secs. 25 & 30.

Over level plain, 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 25 in W., and S 30 in E. half, 1914 on S. rim;

dig pits 18x18x12 ins. N. & S. of cor. 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. 19, 24, 25 & 30, marked on brass cap, 1914 on S. rim,

T 1 N in N. half,
R 10 W S 24 in NW.,
R 9 W S 19 in NE.,
S 30 in SE., and
S 25 in SW. quad.; no trees available.

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, 2nd rate, sandy, gravelly, loose, dry.

Greasewood, sage brush, few paloverde and scrub mesquite.

General Description.

The W. bdy. of T. 2 N., R. 8 W. runs over smooth level land, loose and fertile in the S. 4 miles, trending into sandy, gravelly land in the north 2 miles.

The N. bdy. runs over gravelly land in the E. & W. portions, being rough, stony and mts. in the central portion. There is no water nor timber on or near the lines.

Boundaries of T. 2 N., R. 8 W.
Latitudes, departures, and closing errors.

Line designated.	True bearing.	Dist.	Latitudes.		Departures.	
			N.	S.	E.	W.
		Chs.	Chs.	Chs.	Chs.	Chs.
South Boundary,	S. 89°59' W.	479.69	-----	0.14	-----	479.69
West Boundary,	North,	480.00	480.00	-----	-----	-----
North Boundary,	N. 89°59' E.	479.03	0.14	-----	479.03	-----
East Boundary,	South,	480.00	-----	480.00	-----	-----
Convergency,	-----	-----	-----	-----	0.48	-----
Totals, -----			480.14	480.14	479.51	479.69
			<u>480.14</u>	-----	-----	<u>479.51</u>
Error in Lat., -----			0.00	Error in Dep. -----	-----	0.18

April 1, 1914.

Chains.

N. 89°59' E. bet. secs. 2 & 35.
 Over gently rolling land, through dense brush.
 24.90 Wash, 20 lks. wide, course S.
 31.00 Road, brs. NNW. & SSE.
 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 in S. half, 1914 on S. rim; from which,
 An ironwood tree 10 ins. diam. brs. N. 85° E. 170 lks. dist.,
 marked $\frac{1}{4}$ S 35 B T.
 An ironwood tree 4 ins. diam. brs. S. 88° E. 210 lks. dist.,
 marked $\frac{1}{4}$ S 2 B T.
 41.40 Wash, 25 lks. wide, course SE.
 59.80 Wash, 25 lks. wide, course SSE.
 64.80 Wash, 15 lks. wide, course S.
 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 & 36, marked on
 brass cap, 1914 on S. rim,
 T 3 N in N.,
 T 2 N in S., and
 R 8 W in W. half,
 S 35 in NW.,
 S 36 in NE.,
 S 1 in SE., and
 S 2 in SW. quad.; from which,
 An ironwood tree 4 ins. diam. brs. N. 79 $\frac{1}{2}$ ° E. 73 lks. dist.,
 marked T 3 N R 8 W S 36 B T.
 No other trees available.
 Dig pits 18x18x12 ins. in each sec. 5 $\frac{1}{2}$ ft. dist., and
 raise a mound of earth 4 ft. base 2 ft. high W. of cor.
 Land, rolling.
 Soil, 2nd rate, sandy, gravelly, dry, loose.
 Paloverde, few ironwood and mesquite trees, greasewood.

N. 89°59' E. bet. secs. 1 & 36.
 Over rolling land, through dense brush.
 7.10 Wash, 20 lks. wide, course S.
 19.30 Wash, 10 lks. wide, course S.
 20.95 Wash, 20 lks. wide, course S.
 27.40 Wash, 25 lks. wide, course S.
 28.00 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 $\frac{1}{4}$ sec. cor., marked on brass cap,
 $\frac{1}{4}$ S 36 in N., and
 S 1 in S. half, 1914 on S. rim; pits imprac.
 Raise a mound of stone 2 ft. base, 1 $\frac{1}{2}$ ft. high N. of cor.
 50.75 Wash, 30 lks. wide, course SE.
 70.45 Wash, 30 lks. wide, course S.
 80.00 To cor. of Tps. 2 & 3 N., Rs. 7 & 8 W., hereinbefore
 described.
 Land, rolling, broken.
 Soil, 2nd rate, sandy, loose, gravelly, dry.
 Greasewood, sage brush, few paloverre and ironwood trees
 along washes.

Chains.	N. 89°59' E. bet. secs. 4 & 33. Over mts. land, asc. steep, stony W. slope.
35.00	Asc. prec.
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 33 in N., and S 4 in S. half, 1914 on S. rim; pits imprac. raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high N. of cor.
44.00	Asc. steep from cor. Top of malapais mountain, 1300 ft. above vally, brs. NNW. & SSE.
57.00	Desc. ENE. slope.
80.00	Set an iron post 3 ft. long, 3 ins. in diam. 24 ins. in the ground for cor. of secs. 3, 4, 33 & 34, marked on brass cap, 1914 on S. rim, T 3 N in N., T 2 N in S., and R 8 W in W. half, S 33 in NW., S 34 in NE., S 3 in SE., and S 4 in SW. quad.; pits imprac. raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor. Land, mts., very rough. Soil, stony, 3rd rate. Paloverde, cacti.
<hr/>	
	N. 89°59' E. bet. secs. 3 & 34. Over mts. land, desc. stony NE. slope.
9.40	Gulch, 20 lks. wide, course NE.
23.10	Gulch, 20 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 34 in N., and S 4 in S. half, 1914 on S. rim; pits imprac. raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high N. of cor.
60.00	Foot of main slope, brs. NW. & SSE., desc. grad., through dense brush.
70.30	Wash, 30 lks. wide, course SSE.
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 & 35, marked on brass cap, 1914 on S. rim, T 3 N in N., T 2 N in S., and R 8 W in W. half, S 34 in NW., S 35 in NE., S 2 in SE., and S 3 in SW. quad.; pits impracticable. raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high W. of cor. Land, mts., rolling. Soil, 2nd rate, stony, gravelly, dry. Greasewood, sage brush, few cacti, paloverde.

Chains.

April 1, 1914.
 At 8h a.m., l.m.t., at the cor. of Tps. 2 & 3 N., Rs. 7 & 8 W., as established by me, as hereinbefore described, lat. 33°32'59"N. Long. 113°01'57"W.
 I set off 4°24' N. on the decl. arc, and 33°33' N. on the lat. arc, and determine a meridian with the solar. Thence I run, as per instructions, West, on a random line, setting temp. $\frac{1}{4}$ sec. and sec. cors. at intervals of 40 chs.
 At 5 miles, 79.03 chs. I fall 14 lks. N. of the cor. of Tps. 2 & 3 N., Rs. 8 & 9 W. hereinbefore described, whence I run, on a true line, N. 89°59' E. bet. secs. 31 & 6.
 Over gently rolling land, drain SW., through dense greasewood, paloverde, ironwood, sparse grass.
 Wash, 10 lks. wide, course SW.
 26.90
 39.03 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 31 in N., and S 6 in S. half, 1914 on S. rim, pits imprac. raise a mound of stone 2 ft. base, 1 $\frac{1}{2}$ ft. high N. of cor.
 61.00 Wash, 20 lks. wide, course S.
 79.03 Set an iron post 3 ft. long, 3 ins. in diam. 24 ins. in the ground for cor. of secs. 5, 6, 31 & 32, marked on brass cap, 1914 on S. rim,
 T 3 N in N.,
 T 2 N in S., and
 R 8 W in W. half,
 S 31 in NW.,
 S 32 in NE.,
 S 5 in SE., and
 S 6 in SW. quad.; pits impracticable.
 raise a mound of stone 2 ft. base, 1 $\frac{1}{2}$ ft. high W. of cor.
 Land, rolling. Soil, 2nd rate, sandy, gravelly, dry.
 Greasewood, paloverde.
 Note: At this cor., at noon, I set off 4°27 $\frac{1}{2}$ ' N. on the decl. arc, and observe the sun on the meridian.
 The resulting lat. is 33°33' N.

N. 89°59' E. bet. secs. 5 & 32.
 Over rolling land, through dense brush.
 3.90 Wash, 20 lks. wide, course S.
 16.60 Wash, 30 lks. wide, course SW.
 37.20 Wash, 30 lks. wide, course SW.
 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 32 in N., and S 5 in S. half, 1914 on S. rim; from which,
 An ironwood tree 4 ins. diam. brs. N. 78 $\frac{1}{4}$ °W. 175 lks. dist. marked $\frac{1}{4}$ S 32 B T.
 An ironwood tree 12 ins. diam. brs. S. 82°W. 220 lks. dist. marked $\frac{1}{4}$ S 5 B T.
 58.00 Wash, 20 lks. wide, course S.
 70.00 Asc. W. slope.
 80.00 Set an iron post 3 ft. long, 3 ins. in diam. 24 ins. in the ground for cor. of secs. 4, 5, 32 & 33, marked on brass cap, 1914 on S. rim,
 T 3 N in N.,
 T 2 N in S., and
 R 8 W in W. half,
 S 32 in NW.,
 S 33 in NE.,
 S 4 in SE., and
 S 5 in SW. quad.; pits impracticable.
 raise a mound of stone 2 ft. base, 1 $\frac{1}{2}$ ft. high W. of cor.
 Land, rolling.
 Soil, 2nd rate, gravelly, stony, dry.
 Greasewood, paloverde, sage brush, ironwood.

Chains.

North, bet. secs. 7 & 12, from true point for cor.
 Over gently undulating land, asc. slightly, through dense brush.
 0.10 Wit. cor. to cor. of secs. 7, 12, 13 and 18.
 32.00 Wash, 35 lks. wide, course SW.
 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 12 in W., and S 7 in E. half, 1914 on S. rim; dig pits 18x18x12 ins. N. & S. of cor. 3 ft. dist., and raise a mound of earth $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high W. of cor.
 68.50 Wash, 10 lks. wide, course SW.
 78.50 Wash, 30 lks. wide, course SW., from NNE., thence in wash.
 79.80 Leave wash, to NE.
 80.00 Set an iron post 3 ft. long, 3 ins. in diam. 24 ins. in the ground for cor. of secs. 1, 6, 7 & 12, marked on brass cap, 1914 on S. rim, T 2 N in N. half, R 9 W S 1 in NW., R 8 W S 6 in NE., S 7 in SE., and S 12 in SW. quad.; from which,
 An ironwood tree 24 ins. diam. brs. N. 27° E. 40 lks. dist., marked T 2 N R 8 W S 6 B T.
 An ironwood tree 10 ins. diam. brs. S. 3 $\frac{1}{2}$ ° E. 130 lks. dist., marked T 2 N R 8 W S 7 B T.
 No other bearings available.
 Dig pits 18x18x12 ins. in each sec. 5 $\frac{1}{2}$ ft. dist., and raise a mound of earth 4 ft. base 2 ft. high W. of cor.
 Land, gently rolling. Soil, 2nd rate, sandy, gravelly, Greasewood, sage brush, few cacti, ironwood & paloverde.

North, bet. secs. 1 & 6.
 Over rolling 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., and S 6 in E. half, 1914 on S. rim; from which,
 An ironwood tree 10 ins. diam. brs. N. 14° W. 93 lks. dist., marked $\frac{1}{4}$ S 1 B T.
 An ironwood tree 18 ins. diam. brs. N. 18° E. 198 lks. dist., marked $\frac{1}{4}$ S 6 B T.
 41.80 Wash, 20 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 Tps. 2 & 3 N., Rs. 8 & 9 W., marked on brass cap, 1914 on S. rim, T 3 N in N., T 2 N in S., R 8 W in E., and R 9 W in W. half, S 36 in NW., S 31 in NE., S 6 in SE., and S 1 in SW. quad.; from which,
 An ironwood tree 10 ins. diam. brs. N. 24° W. 233 lks. dist., marked T 3 N R 9 W S 36 B T.
 A paloverde tree 10 ins. diam. brs. N. 75° E. 40 lks. dist., marked T 3 N R 8 W S 31 B T.
 A paloverde tree 6 ins. diam. brs. S. 30 $\frac{3}{4}$ ° E. 83 lks. dist., marked T 2 N R 8 W S 6 B T.
 A paloverde tree 9 ins. diam. brs. S. 53 $\frac{1}{2}$ ° W. 106 lks. dist., marked T 2 N R 9 W S 1 B T.
 Land, gently rolling, drains to SW.
 Soil, 2nd rate, sandy, gravelly, loose, dry.
 Greasewood, paloverde, ironwood, few mesquites.

March 31, 1914.

Chains.

North, bet. secs. 19 & 24.

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 24 in W., and

S 19 in E. half, 1914 on S. rim;

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

80.00

Set an iron post 3 ft. long, 3 ins. in diam. 24 ins. in the ground for cor. of secs 13, 18, 19 & 24, marked on brass cap, 1914 on S. rim,

T 2 N in N. half.

R 9 W S 13 in NW.,

R 8 W S 18 in NE.,

S 19 in SE., and

S 24 in SW. quad.;

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

Land, level, gently undulating.

Soil, 2nd rate, sandy, loamy, loose, gravelly, dry.

Greasewood, sage brush, paloverde, few ironwood trees.

North, bet. secs. 13 & 18.

Over level land, drains SW., 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 13 in W., and

S 18 in E. half, 1914 on S. rim;

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

79.95

Main road, Phoenix to Harrisburg & Wenden, etc., brs. WNW. & ESE.

80.00

Point for cor. of secs. 7, 12, 13 & 18 falls in N. edge of road; therefore; continue N. to

80.10

On N. side of road,

Set an iron post 3 ft. long, 3 ins. in diam. 24 ins. in the ground for witness cor. to cor. of secs. 7, 12, 13 & 18; marked on brass cap, 1914 on S. rim,

W C, N. of centre,

T 2 N in N. half,

R 9 W S 12 in NW.,

R 8 W S 7 in NE.,

S 18 in SE., and

S 13 in SW. quad.; from which,

An ironwood tree 18 ins. diam. brs. N. 2° W. 217 lks. dist., marked T 2 N R 9 W S 12 W C B T.

An ironwood tree 10 ins. diam. brs. N. $25\frac{1}{4}^{\circ}$ E. 121 lks. dist., marked T 2 N R 8 W S 7 W C B T.

No other trees or bearings available.

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

Land, level, gently undulating.

Soil, 2nd rate, loose, dry, gravelly, sandy, loamy.

Greasewood, sage brush, few paloverde, ironwood and mesquite trees.

Note: At this cor. at noon, I set off $4^{\circ}04'$ N. on the decl. arc, and observe the sun on the meridian. The resulting lat. is $33^{\circ}30\frac{1}{2}'$ N.

36. West boundary of Township 2 North, Range 8 West.

Chains.

March 31, 1914:
At 8h. a.m., l.m.t., at the cor. of Ts. 1 and 2 N., Rs. 8 and 9 W., hereinbefore described,
I set off $4^{\circ} 01' N.$ on the decl. arc; and $33^{\circ} 28' N.$ on the lat. arc; and determine a meridian with the solar.
Thence I run, as per instructions,
North, bet. secs. 31 and 36.

Var. $14^{\circ} 35' E.$

Over level plain, drains to SSW., through dense sage brush, greasewood, no grass, few small palo verde trees.

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,
 $\frac{1}{2} S 36$ in W., and
 $S 31$ in E. half;
1914 on S. rim.

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

80.00 Set an iron post 3 ft. long, $\frac{3}{8}$ ins. in diam., 24 ins. in the ground, for cor. of secs. 25, 30, 31 and 36, marked on brass cap,

1914 on S. rim,
T 2 N in N. half;
R 9 W S 25 in NW.,
R 8 W S 30 in NE.,
S 31 in SE., and
S 36 in SW. quadrant;

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

Land, level.

Soil 2nd rate, sandy, loamy, dry.

Greasewood, sage brush, few palo verde trees.

North, bet. secs. 25 and 30.

Over level plain, 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,
 $\frac{1}{2} S 25$ in W., and
 $S 30$ in E. half;
1914 on S. rim;

dig pits $18 \times 18 \times 12$ ins., N. and S. of cor. 3 ft. dist., and raise a mound of earth $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high, 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. 19, 24, 25 and 30, marked on brass cap,

1914 on S. rim;
T 2 N in N. half;
R 9 W S 24 in NW.,
R 8 W S 19 in NE.,
S 30 in SE., and
S 25 in SW. 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, gently undulating.

Soil, 2nd rate, loamy, sandy, loose, gravelly, dry.

Greasewood, sage brush, few small palo verde trees.

Chains.

North bet. secs. 19 & 24.
 Over level lands, drain S., 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 24 in W., and S 19 in E. half, 1914 on S. rim; dig pits 18x18x12 ins. N. & S. of cor. 3 ft. dist., and raise a mound of earth $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high W. of cor.
 80.00 Set an iron post 3 ft. long, 3 ins. in diam. 24 ins. in the ground for cor. of secs. 13, 18, 19 & 24, marked on brass cap, 1914 on S. rim, T 3 N in N. half, R 10 W S 13 in NW., R 9 W S 18 in NE., S 19 in SE., and S 24 in SW. quad.; from which, An ironwood tree 4 ins. diam. brs. N. $3\frac{1}{4}$ ° E. 187 lks. dist., marked T 3 N R 9 W S 18 B T.
 No other trees near.
 Dig pits 18x18x12 ins. in each sec. $5\frac{1}{2}$ ft. dist., and raise a mound of earth 4 ft. base 2 ft. high W. of cor.
 Land, level, drains S.
 Soil, 2nd rate, loamy, sandy, loose, medium texture.
 Greasewood, sage brush, few ironwood & paloverde trees.

North bet. secs. 13 & 18.
 Over level land, through dense brush, drainage S.
 40.00 Set an iron post 3 ft. long, 1 in. in diam. 26 ins. in the ground for $\frac{1}{4}$ sec. cor., marked on brass cap, $\frac{1}{4}$ S 13 in W., and S 18 in E. half, 1914 on S. rim; from which, An ironwood tree 4 ins. diam. brs. N. 77 ° E. 140 lks. dist., marked $\frac{1}{4}$ S 18 B T.
 An ironwood tree 5 ins. diam. brs. S. $81\frac{3}{4}$ ° W. 95 lks. dist., marked $\frac{1}{4}$ S 13 B T.
 80.00 Set an iron post 3 ft. long 3 ins. in diam. 24 ins. in the ground for cor. of secs. 7, 12, 13 & 18, marked on brass cap, 1914 on S. rim, T 3 N in N. half; R 10 W S 12 in NW., R 9 W S 7 in NE., S 18 in SE., and S 13 in SW. quad.; no trees near.
 Dig pits 18x18x12 ins. in each sec. $5\frac{1}{2}$ ft. dist., and raise a mound of earth 4 ft. base 2 ft. high W. of cor.
 Land, level.
 Soil, 2nd rate, sandy, loamy, loose, dry, fine texture.
 Greasewood, sage brush, few ironwood & palo verde trees.

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66.

East Boundary of T. 3 N., R. 10 W.

Chains.

- North bet. secs. 7 & 12.
Over level land, through dense brush, drainage S.
- 40.00 Set an iron post 3 ft. long, 1 in. in diam. 26 ins. in the ground for $\frac{1}{4}$ sec. cor., marked on brass cap,
 $\frac{1}{4}$ S 12 in W., and
S 7 in E. half, 1914 on S. rim; from which,
An ironwood tree 7 ins. diam. brs. N. 57° E. 192 lks. dist., marked $\frac{1}{4}$ S 7 B T.
An ironwood tree 9 ins. diam. brs. S. 10° W. 208 lks. dist., marked $\frac{1}{4}$ S 12 B T.
- 80.00 Set an iron post 3 ft. long 3 ins. in diam. 24 ins. in the ground for cor. of secs. 1, 6, 7 & 12, marked on brass cap, 1914 on S. rim,
T 3 N in N. half,
R 10 W S 1 in NW.,
R 9 W S 6 in NE.,
S 7 in SE., and
S 12 in SW. quad.; from which,
An ironwood tree 4 ins. diam. brs. N. 15° W. 310 lks. dist., marked T 3 N R 10 W S 1 B T.
An ironwood tree 4 ins. diam. brs. N. 14° E. 249 lks. dist., marked T 3 N R 9 W S 6 B T.
An ironwood tree 8 ins. diam. brs. S. 4 $\frac{1}{4}$ ° E. 23 lks. dist., marked T 3 N R 9 W S 7 B T.
An ironwood tree 6 ins. diam. brs. S. 11° W. 143 lks. dist., marked T 3 N R 10 W S 12 B T.

Land, level.

Soil, 2nd rate, sandy, gravelly, dry, loose,

X Undergrowth, greasewood, palo verde, ironwood, few cacti.

- North bet. secs. 1 & 6.
Over gently undulating land, drains S., 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., and
S 6 in E. half, 1914 on S. rim;
dig pits 18x18x12 ins. N. & S. of cor. 3 ft. dist., and raise a mound of earth 3 $\frac{1}{2}$ ft. base, 1 $\frac{1}{2}$ ft. high W. of cor.
- 80.00 Set an iron post 3 ft. long 3 ins. in diam. 24 ins. in the ground for cor. of Tps. 3 & 4 N., Rs. 9 & 10 W., marked on brass cap, 1914 on S. rim,
T 4 N in N.,
T 3 N in S.,
R 9 W in E., and
R 10 W in W. half,
S 36 in NW.,
S 31 in NE.,
S 6 in SE., and
S 1 in SW. quad.; no trees available.
dig pits 24x18x12 ins. on each line, E., W. & N. 4 ft., and S. of cor. 8 ft. dist., and raise a mound of earth 5 ft. base 2 $\frac{1}{2}$ ft. high S. of cor., from which,
Buckhorn Peak brs. S. 67° 16' E.
Saddle-back Peak brs. S. 38° 44' E.
Eagle Tail Peak brs. S. 14° 44' W.
- Land, gently undulating.
Soil, 2nd rate, gravelly, sandy, coarse texture.
Greasewood, sage brush, few cacti, paloverde, ironwood and mesquite trees.

General Description.

The E. bdy. of T. 3 N., R. 10 W. runs over a smooth level plain, draining S. into the main draw of Centennial Wash. There is no water nor timber on or near the line.

May 10, 1914. 11h 30m a.m.

No field work in afternoon.

Chains.

May 16, 1914.

At 8h a.m., l.m.t., at the cor. of Tps. 2 & 3 N., Rs. 10 & 11 W., established by me, as

hereinbefore described,

I set off 19°01' N. on the decl. arc, and 33°33' N. on the lat. arc, and determine a meridian with the solar. Thence I run, as per instructions,

North, bet. secs. 31 & 36.

Var. 14°40' E.

Over rolling land, through dense brush.

40.00 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 W., and S 31 in E. half, 1914 on S. rim;

No bearings available.

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

80.00 Set an iron post 3ft. long, 3 ins. in diam. 24 ins. in the ground for cor. of secs. 25, 30, 31 & 36, marked on brass cap, 1914 on S. rim,

T 3 N in N. half,
R 11 W S 25 in NW.,
R 10 W S 30 in NE.,
S 31 in SE., and
S 36 in SW. quad.;

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, gently rolling.

Soil, 2nd rate, sandy, loamy, loose, dry.

Greasewood, paloverde, sage brush, few cacti.

North, bet. secs. 25 & 30.

Over level plain, drains SE., through dense brush.

40.00 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 25 in W., and S 30 in E. half, 1914 on S. rim; from which,

A mesquite tree 8 ins. diam. brs. N. 42° E. 23 lks. dist., marked 1/4 S 30 B T.

A mesquite tree 14 ins. diam. brs. S. 80° W. 96 lks. dist., marked 1/4 S 25 B T.

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 & 30, marked on brass cap, 1914 on S. rim,

T 3 N in N. half,
R 11 W S 24 in NW.,
R 10 W S 19 in NE.,
S 30 in SE., and
S 25 in SW. quad.;

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, 2nd rate, loamy, sandy, loose, dry.

Greasewood, sage brush, scrub mesquite.

Note: At this cor., at noon, I set off 19°03' N. on the decl. arc, and observe the sun on the meridian. The resulting lat. is 33°35' N.

Chains.

- North bet. secs. 19 & 24.
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 19 in W., and S 24 in E. half, 1914 on S. rim; dig pits 18x18x12 ins. N. & S. of cor. 3 ft. dist., and raise a mound of earth $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high W. of cor.
- 80.00 Set an iron post 3 ft. long, 3 ins. in diam. 24 ins. in the ground for cor. of secs. 13, 18, 19 & 24, marked on brass cap, 1914 on S. rim, T 3 N in N. half, R 11 W S 13 in NW., R 10 W S 18 in NE., S 19 in SE., and S 24 in SW. quad.;; dig pits 18x18x12 ins. in each sec. $5\frac{1}{2}$ ft. dist., and raise a mound of earth 4 ft. base 2 ft. high W. of cor. Land, level. Soil, 1st & 2nd rate, loamy, sandy, dry. Greasewood, sage brush, few paloverde, mesquite, & cacti.

- North bet. secs. 13 & 18.
Over level valley, drains SSE., through dense brush.
- 21.00 Dim old road, brs. NW. & SE.
- 40.00 Set an iron post 3 ft. long, 1 in. in diam. 26 ins. in the ground for $\frac{1}{4}$ sec. cor., marked on brass cap, $\frac{1}{4}$ S 13 in W., and S 18 in E. half, 1914 on S. rim; dig pits 18x18x12 ins. N. & S. of cor. 3 ft. dist., and raise a mound of earth $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high W. of cor.
- 80.00 Set an iron post 3 ft. long, 3 ins. in diam. 24 ins. in the ground for cor. of secs. 7, 12, 13 & 18, marked on brass cap, 1914 on S. rim, T 3 N in N. half, R 11 W S 12 in NW., R 10 W S 7 in NE., S 18 in SE., and S 13 in SW. quad.;; dig pits 18x18x12 ins. in each sec. $5\frac{1}{2}$ ft. dist., and raise a mound of earth 4 ft. base 2 ft. high W. of cor. Land, level. Soil, 2nd rate, loamy, sandy, dry, loose. Greasewood, sage brush, few scrub mesquites & paloverde.

- North bet. secs. 7 & 12.
Over level land, drains SSE., 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 12 in W., and S 7 in E. half, 1914 on S. rim; dig pits 18x18x12 ins. N. & S. of cor. 3 ft. dist., and raise a mound of earth $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high W. of cor.
- 80.00 Set an iron post 3 ft. long, 3 ins. in diam. 24 ins. in the ground for cor. of secs. 1, 6, 7 & 12, marked on brass cap, 1914 on S. rim, R 11 W S 1 in NW., R 10 W S 6 in NE., S 7 in SE., and S 12 in SW. quad.;; dig pits 18x18x12 ins. in each sec. $5\frac{1}{2}$ ft. dist., and raise a mound of earth 4 ft. base 2 ft. high W. of cor. Land, level, drains SSE. Soil, 1st & 2nd rate, loamy, dry, loose. Greasewood, sage brush, few scrub mesquite and paloverde.

West Boundary of T. 3 N., R. 10 W.

Chains.

North bet. secs. 1 & 6.
 Over level plain, through dense brush.

13.20 Main road, Phoenix & Buckeye to Harrisburg & Wenden, brs. NW. & SE.

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

80.00 Set an iron post 3 ft. long, 3 ins. in diam. 24 ins. in the ground for cor. of Tps. 3 & 4 N., Rs. 10 & 11 W., marked on brass cap, 1914 on S. rim,
 T 4 N in N.,
 T 3 N in S.,
 R 10 W in E., and
 R 11 W in W. half,
 S 36 in NW.,
 S 31 in NE.,
 S 6 in SE., and
 S 1 in SW. quad.; no trees near.
 dig pits 24x18x12 ins., on each line, E., W., & N., 4 ft., and S. of cor. 8 ft. dist., and raise a mound of earth 5 ft. base $2\frac{1}{2}$ ft. high S. of cor.
 Buckhorn Peak brs. S. $79^{\circ}39'$ E.
 Hazel Tail Peak brs. S. $6^{\circ}18'$ E.
 Saddle-back Peak brs. S. $51^{\circ}13'$ E.
 East edge of high vertical bluff on E. side of high granite peak in mts. to SW. brs. S. $6^{\circ}52'$ W.
 Magnetic variation at this cor. is $14^{\circ}30'$ E.
 Land, level, drains SSE.
 Soil, 1st & 2nd rate, loamy, sandy, loose, dry, fine texture.
 Greasewood, sage brush, scrub mesquite, paloverde, few cacti.

General description.

The W. bdy. of T. 3 N., R. 10 W. runs over a smooth, level plain or valley of the Centennial Draw, the middle of this broad draw being near the SW. cor. of the Tp.
 There is no water nor timber on or near the line, nor any indications of settlement.

May 16, 1914.

North Boundary of T. 3 N., R. 10 W.

May 17, 1914.
 At 8h a.m., l.m.t., at the cor. of Tps. 3 & 4 N., Rs. 9 & 10 W., as estab. by me, and hereinbefore described, I set off $19^{\circ}15'$ N. on the decl. arc, and $33^{\circ}38'$ N. on the lat. arc, and determine a meridian with the solar. Thence I run, as per instructions, West, on a random line, setting temp. $\frac{1}{4}$ sec. cor. at intervalls of 40 and 20 chs.
 At 5 miles, 79.24 chs., I fall 14 lks. N. of the cor. of Tps. 3 & 4 N., Rs. 10 & 11 W. hereinbefore described, whence I run, on a random line, to the cor. of Tps. 3 & 4 N., Rs. 10 & 11 W.,

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70.

North Boundary of T. 3 N., R. 10 W.

- Chains. N. $89^{\circ}59'$ E., bet. secs. 6 & 31.
Over gently rolling land, through dense greasewood, sage brush, scrub paloverde, few cacti.
- 39.24 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 31 in N., and S 6 in S. half, 1914 on S. rim, dig pits 18x18x12 ins. E. & W. of cor. 3 ft. dist., and raise a mound of earth $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high N. of cor.
- 79.24 Set an iron post 3 ft. long, 3 ins. in diam. 24 ins. in the ground for cor. of secs. 5, 6, 31 & 32, marked on brass cap, 1914 on S. rim, T 4 N in N., T 3 N in S., and R 10 W in W. half, S 31 in NW., S 32 in NE., S 5 in SE., and S 6 in SW. quad.; dig pits 18x18x12 ins. in each sec. $5\frac{1}{2}$ ft. dist., and raise a mound of earth 4 ft. base 2 ft. high W. of cor. Land, gently rolling, level. Soil, 2nd rate, loose, dry. Greasewood, sage brush, few paloverde and cacti.
- Note: At this cor., at noon, high winds render it impracticable to make satisfactory observation for lat.

- N. $89^{\circ}59'$ E. bet. secs. 5 & 32.
Over level land, drains S., 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 32 in N., and S 5 in S. half, 1914 on S. rim; dig pits 18x18x12 ins. E. & W. of cor. 3 ft. dist., and raise a mound of earth $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high N. of cor.
- 56.00 Wash, 10 lks. wide, course S.
- 80.00 Set an iron post 3 ft. long, 3 ins. in diam. 24 ins. in the ground for cor. of secs. 4, 5, 32 & 33, marked on brass cap, 1914 on S. rim, T 4 N in N., T 3 N in S., and R 10 W in W. half, S 32 in NW., S 33 in NE., S 4 in SE., and S 5 in SW. quad.; dig pits 18x18x12 ins. in each sec. $5\frac{1}{2}$ ft. dist., and raise a mound of earth 4 ft. base 2 ft. high W. of cor. Land, level, drains S. Soil, 2nd rate, sandy, loamy, gravelly, dry, loose. Greasewood, few paloverde and mesquite trees.

- N. $89^{\circ}59'$ E. bet. secs. 4 & 33.
Over level land, drains S., through dense brush.
- 36.00 Wash, 20 lks. wide, course S.
- 40.00 Set an iron post 3 ft. long, 1 in. in diam. 26 ins. in the ground for $\frac{1}{4}$ sec. cor., marked on brass cap, 1914 on S. rim, $\frac{1}{4}$ S 33 in N., and S 4 in S. half; from which; A mesquite tree 8 ins. diam. brs. S. 40° E. 19 lks. dist., marked $\frac{1}{4}$ S 4 B T. A mesquite tree 9 ins. diam. brs. N. 29° W. 53 lks. dist., marked $\frac{1}{4}$ S 33 B T.
- 42.30 Wash, 20 lks. wide, course S.
- 80.00 Set an iron post 3 ft. long, 3 ins. in diam. 24 ins. in the ground for cor. of secs. 3, 4, 33 & 34, marked on brass cap, 1914 on S. rim, T 4 N in N., T 3 N in S., and R 10 W in W. half, S 33 in NW., S 34 in NE., S 3 in SE., & S 4 in SW. quad.; from which,

Chains.

An ironwood tree 36 ins.diam.brs.N.65°E. 28 lks. dist.,
 marked T 4 N R 10 W S 34 B T.
 A mesquite tree 10 ins.diam.brs.S.50½°E. 82 lks. dist.,
 marked T 3 N R 10 W S 3 B T.
 A paloverde tree 14 ins.diam.brs.S.48°W. 261 lks. dist.,
 marked T 3 N R 10 W S 4 B T.
 A paloverde tree 4 ins.diam.brs.N.79½°W. 189 lks. dist.,
 marked T 4 N R 10 W S 33 B T.

Land, level, gently undulating.
 Soil, 2nd rate, loamy, loose, gravelly, dry.
 Greasewood, paloverde, few mesquites and ironwoods.

N. 89°59' E. bet. secs. 3 & 34.
 Over gently rolling land, through dense brush.

0.70 Wash, 20 lks. wide, course S.
 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 34 in N., and
 S 3 in S. half, 1914 on S. rim; from which,
 A paloverde tree 4 ins.diam.brs.N.48°W. 18 lks. dist.,
 marked ¼ S 34 B T.
 An ironwood tree 24 ins.diam.brs.S.62°W.65 lks. dist.,
 marked ¼ S 3 B T.

52.05 Wash, 30 lks. wide, course SW.
 76.00 Wash, 15 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. 2, 3, 34 & 35, marked on
 brass cap, 1914 on S. rim,
 T 4 N in N.,
 T 3 N in S., and
 R 10 W in W. half,
 S 34 in NW.,
 S 35 in NE.,
 S 2 in SE., and
 S 3 in SW. quad.; no bearings available.
 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, drains S.
 Soil, 2nd rate, sandy, gravelly, loose, dry, coarse.
 Greasewood, paloverde, ironwood, scrub mesquite.

N. 89°59' E. bet. secs. 2 & 35.
 Over gently undulating land, drains S., 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 35 in N., and
 S 2 in S. half, 1914 on S. rim;
 dig pits 18x18x12 ins. E. & W. of cor. 3 ft. dist., and
 raise a mound of earth 3½ ft.base,1½ ft.high N.of cor.

42.70 Wash, 20 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. 1, 2, 35 & 36, marked on
 brass cap, 1914 on S. rim,
 T 4 N in N.,
 T 3 N in S., and
 R 10 W in W. half,
 S 35 in NW.,
 S 36 in NE.,
 S 1 in SE., and
 S 2 in SW. quad.; from which,
 A paloverde tree 5 ins.diam.brs.N.32°E. 190 lks. dist.,
 marked T 4 N R 10 W S 36 B T.
 An ironwood tree 8 ins.diam.brs.S.59°E. 216 lks. dist.,
 marked T 3 N R 10 W S 1 B T.

No other trees near.
 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, drains S., gently rolling in places.
 Soil, 2nd rate, gravelly, sandy, dry, loose.
 Greasewood, sage brush, paloverde, few ironwood trees.

Chains. N. 89°59' E. bet. secs. 1 & 36.
Over gently undulating land, drains S., 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 in S. half, 1914 on S. rim; dig pits 18x18x12 ins. E. & W. of cor. 3 ft. dist., and raise a mound of earth $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high N. of cor.

50.90 Wash, 15 lks. wide, course SW.

69.90 Wash, 15 lks. wide, course SW.

80.00 To cor. of Tps. 3 & 4 N., Rs. 9 & 10 W., hereinbefore described.

Land, level, rolling.
Soil, 2nd rate, sandy, loose, gravelly, dry.
Greasewood, scrub paloverde, ironwood and mesquite.

General description.

The N. bdy. of T. 3 N., R. 10 W. runs over a smooth, level, or gently undulating plain, draining S. into the main draw of Centennial Wash.

There is no water nor timber on or near the line, nor any indications of settlement.

Boundaries of T. 3 N., R. 10 W.
Latitudes, departures, and closing errors.

Line designated.	True bearing.	Dist.	Latitudes.		Departures.	
			N.	S.	E.	W.
		Chs.	Chs.	Chs.	Chs.	Chs.
South Boundary,	S. 89°58' W.	479.60	-----	0.28	-----	479.60
West Boundary,	North,	480.00	480.00	-----	-----	-----
North Boundary,	N. 89°59' E.	479.24	0.14	-----	479.24	-----
East Boundary,	South,	480.00	-----	480.00	-----	-----
Convergency,	-----	-----	-----	-----	0.48	-----
Totals, -----			480.14	480.28	479.72	479.60
			-----	<u>480.14</u>	<u>479.60</u>	-----
Error in Lat., -----			-----	-0.14	-----	-----
Error in Dep., -----			-----	-----	-0.12	-----

May 17, 1914.

Chains.

May 18, 1914.

At 8h a.m., l.m.t., at the cor. of Tps. 2 & 3 N., Rs. 10 & 11 W., hereinbefore described,

I set off 19°28' N. on the decl. arc, and 33°33' N. on the lat. arc, and determine a meridian with the solar. Thence I run, as per instructions,

West, on a true line, bet. secs. 1 & 36. Var. 14°30' E.

Over level plain, drains SSE., through dense greasewood, sage brush, few paloverde, ironwood and scrub mesquite trees, and giant cacti.

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

80.00 Set an iron post 3 ft. long, 3 ins. in diam. 24 ins. in the ground for cor. of secs. 1, 2, 35 & 36, marked on brass cap, 1914 on S. rim, T 3 N in N., T 2 N in S., and R 11 W in W. half, S 35 in NW., S 36 in NE., S 1 in SE., and S 2 in SW. quad.; no bearings available. 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, 1st rate, loamy, sandy, dry. Greasewood, sage brush, few cacti.

West, bet. secs. 2 & 35.

Over level plain, through dense brush.

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

80.00 Set an iron post 3 ft. long, 3 ins. in diam. 24 ins. in the ground for cor. of secs. 2, 3, 34 & 35, marked on brass cap, 1914 on S. rim, T 3 N in N., T 2 N in S., and R 11 W in W. half, S 34 in NW., S 35 in NE., S 2 in SE., and S 3 in SW. quad.; no trees near. 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, drains SSE. Soil, 1st & 2nd rate, loamy, sandy, dry, fine texture. Greasewood, sage brush, few cacti.

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South Boundary of T. 3 N., R. 11 W.

Chains.

- West, bet. secs. 3 & 34.
Over level plain, drains SSE., 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 34 in N., and
S 3 in S. half, 1914 on S. rim;
dig pits 18x18x12 ins. E. & W. of cor. 3 ft. dist., and raise a mound of earth $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high N. of cor.
- 80.00 Set an iron post 3 ft. long, 3 ins. in diam. 24 ins. in the ground for cor. of secs. 3, 4, 33 & 34, marked on brass cap, 1914 on S. rim,
T 3 N in N.,
T 2 N in S., and
R 11 W in W. half,
S 33 in NW.,
S 34 in NE.,
S 3 in SE., and
S 4 in SW. quad.;
dig pits 18x18x12 ins. in each sec. $5\frac{1}{2}$ ft. dist., and raise a mound of earth 4 ft. base 2 ft. high W. of cor.
- Land, level.
Soil, 1st rate, loamy, dry, loose.
Greasewood, sage brush, few paloverde, ironwood trees and cacti.
- Note: At this cor., at noon, I set off $19^{\circ}30'$ N. on the decl. arc, and observe the sun on the meridian.
The resulting lat. is $33^{\circ}33'$ N.

- West, bet. secs. 4 & 33.
Over level plain, drains SSE., 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 33 in N., and
S 4 in S. half, 1914 on S. rim;
dig pits 18x18x12 ins. E. & W. of cor. 3 ft. dist., and raise a mound of earth $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high N. of cor.
- 70.00 Enter dense scrub mesquite, brs. NW. & SE., Centennial Draw, centre of drainage, to SE.
- 80.00 Set an iron post 3 ft. long, 3 ins. in diam. 24 ins. in the ground for cor. of secs. 4, 5, 32 & 33, marked on brass cap, 1914 on S. rim,
T 3 N in N.,
T 2 N in S., and
R 11 W in W. half,
S 32 in NW.,
S 33 in NE.,
S 4 in SE., and
S 5 in SW. quad.;
dig pits 18x18x12 ins. in each sec. $5\frac{1}{2}$ ft. dist., and raise a mound of earth 4 ft. base 2 ft. high W. of cor.
- Land, level.
Soil, 1st rate, loamy, fine texture.
Greasewood, scrub mesquite.

Chains.

West bet. secs. 5 & 32.
 Over level land, drains SE., through dense brush.
 20.76 Old road, brs. NW. & SE.
 40.00 Set an iron post 3 ft. long, 1 in. in diam. 26 ins. in
 the ground for $\frac{1}{4}$ sec. cor., marked on brass cap,
 $\frac{1}{4}$ S 32 in N., and
 S 5 in S. half, 1914 on S. rim;
 dig pits 18x18x12 ins. E. & W. of cor. 3 ft. dist., and
 raise a mound of earth $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high N. of cor.
 60.00 Drain, 10 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. 5, 6, 31 & 32, marked on
 brass cap, 1914 on S. rim,
 T 3 N in N.,
 T 2 N in S., and
 R 11 W in W. half,
 S 31 in NW.,
 S 32 in NE.,
 S 5 in SE., and
 S 6 in SW. quad.;
 dig pits 18x18x12 ins. in each sec. $5\frac{1}{2}$ ft. dist., and
 raise a mound of earth 4 ft. base 2 ft. high W. of cor.
 Land, level, drains SE.
 Soil, 1st rate, loamy, fine texture.
 Greasewood, scrub mesquite, few cacti.

West, bet. secs. 6 & 31.
 Over level land, drains SE., through dense brush.
 36.00 Leave scrub mesquite, and Centennial Draw, course SE.
 40.00 Set an iron post 3 ft. long, 1 in. in diam. 26 ins. in
 the ground for $\frac{1}{4}$ sec. cor., marked on brass cap,
 $\frac{1}{4}$ S 31 in N., and
 S 6 in S. half, 1914 on S. rim;
 dig pits 18x18x12 ins. E. & W. of cor. 3 ft. dist., and
 raise a mound of earth $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high N. of cor.
 50.10 Dim old road, brs. N. & S.
 Allowing 96 lks. for convergency, as per instructions, at
 79.04 Set an iron post 3 ft. long, 3 ins. in diam. 24 ins. in
 the ground for cor. of Tps. 2 & 3 N., Rs. 11 & 12 W.,
 marked on brass cap, 1914 on S. rim,
 T 3 N in N.,
 T 2 N in S.,
 R 11 W in E., and
 R 12 W in W. half,
 S 36 in NW.,
 S 31 in NE.,
 S 6 in SE., and
 S 1 in SW. quad.; from which,
 A mesquite tree 6 ins. diam. brs. N. 82° W. 163 lks. dist.,
 marked T 3 N R 12 W S 36 B T.
 A mesquite tree 9 ins. diam. brs. S. 68° W. 316 lks. dist.,
 marked T 2 N R 12 W S 1 B T.
 No other trees available.
 Dig pits 24x18x12 ins. on each line, E., W. & N. 4 ft.,
 and S. of cor. 8 ft. dist., and raise a mound of earth
 5 ft. base $2\frac{1}{2}$ ft. high S. of cor.; from which,
 Buckhorn Peak brs. N. $71^{\circ}20'$ E.
 Saddle-back Peak brs. S. $71^{\circ}37'$ E.
 A high, and most prominent sharp granite peak towards
 N. end of Eagle-Tail Mts. brs. S. $37^{\circ}02'$ E.
 Land, level.
 Soil, 1st & 2nd rate, sandy, loamy, gravelly, dry.
 Greasewood, scrub mesquite, few paloverde trees and cacti.
 May 18, 1914.

General description.

The S. bdy. of T. 3 N., R. 11 W. runs over a smooth, level
 plain, the valley of the Centennial Wash. The land to the
 South is more broken, approaching the foothills of Eagle
 Tail Mts. at from two to 4 miles.

BOOK 2791

796.

West Boundary of T. 3 N., R. 11 W.

Chains.

May 19, 1914.

At 8h a.m., l.m.t., at the cor. of Tps. 2 & 3 N., Rs. 11 & 12 W. hereinbefore described,

I set off $19^{\circ}41'$ N. on the decl. arc, and $33^{\circ}33'$ N. on the lat. arc, and determine a meridian with the solar.

Thence I run, as per instructions,

North, ~~of~~ line, bet. secs. 31 & 36.Var. $14^{\circ}30'$ E.

Over level plain, through dense greasewood, sage brush, few cacti.

25.00 Enter Centennial Draw, dense mesquite, course SE.

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

S 31 in E. half, 1914 on S. rim, from which,

A mesquite tree 6 ins. diam. brs. S. 2° W. 123 lks. dist., marked $\frac{1}{4}$ S 36 B T.A mesquite tree 6 ins. diam. brs. S. 61° E. 75 lks. dist., marked $\frac{1}{4}$ S 31 B T.

45.00 Leave draw, and dense mesquite, brs. NW. & 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 & 36, marked on brass cap, 1914 on S. rim,

T 3 N in N. half,

R 12 W S 25 in NW.,

R 11 W S 30 in NE.,

S 31 in SE., and

S 36 in SW. quad.; no trees available.

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, 1st rate, loamy, fine texture.

Greasewood, sage brush, mesquite, cacti.

North bet. secs. 25 & 30.

Over level plain, drains SSE., 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 25 in W., and

S 30 in E. half, 1914 on S. rim;

dig pits $18 \times 18 \times 12$ ins. N. & S. of cor. 3 ft. dist., andraise 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. in diam. 24 ins. in the ground for cor. of secs. 19, 24, 25 & 30, marked on brass cap, 1914 on S. rim,

T 3 N in N. half,

R 12 W S 24 in NW.,

R 11 W S 19 in NE.,

S 30 in SE., and

S 25 in SW. quad.;

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, 1st rate, sandy, loamy, loose, dry.

Greasewood, sage brush, few scrub mesquite, cacti.

Note: At this cor., at noon, I set off $19^{\circ}43'$ N. on the decl. arc, and observe the sun on the meridian.The resulting lat. is $33^{\circ}35'$ N.

Chains.

North bet. secs. 19 & 24.

Over level plain, 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 24 in W., and

S 19 in E. half, 1914 on S. rim;

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

51.30 Old road, brs. NW. & SE.

80.00 Set an iron post 3 ft. long, 3 ins. in diam. 24 ins. in the ground for cor. of secs. 13, 18, 19 & 24, marked on brass cap, 1914 on S. rim,

T 3 N in N. half,

R 12 W S 13 in NW.,

R 11 W S 18 in NE.,

S 19 in SE., and

S 24 in SW. quad.;

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

Land, level, drains SE.

Soil, 1st rate, loamy, sandy, dry, loose, fine texture.

Greasewood, sage brush, scrub mesquite, few cacti.

North bet. secs. 13 & 18.

Over level land, through dense brush, drainage SE.

10.00 Enter draw, course SE., dense mesquite.

38.00 Leave draw.

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 13 in W., and

S 18 in E. half, 1914 on S. rim;

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

80.00 Set an iron post 3 ft. long, 3 ins. in diam. 24 ins. in the ground for cor. of secs. 7, 12, 13 & 18, marked on brass cap, 1914 on S. rim,

T 3 N in N. half,

R 12 W S 12 in NW.,

R 11 W S 7 in NE.,

S 18 in SE., and

S 13 in SW. quad.; no trees near.

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

Land, level. Soil, 1st rate, loamy, dry, loose.

Greasewood, mesquite, few paloverde and ironwood trees.

North bet. secs. 7 & 12.

Over level land, drains SSE., 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 12 in W., and

S 7 in E. half, 1914 on S. rim;

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

80.00 Set an iron post 3 ft. long, 3 ins. in diam. 24 ins. in the ground for cor. of secs. 1, 6, 7 & 12, marked on brass cap, 1914 on S. rim;

T 3 N in N. half,

R 12 W S 1 in NW.,

R 11 W S 6 in NE.,

S 7 in SE., and

S 12 in SW. quad.; no trees near.

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

Land, level, drains SSE. Soil, 1st rate, loamy, loose.

Greasewood, few scrub mesquites and paloverde trees.

78.

West Boundary of T. 3 N., R. 11 W.

Chains. North bet. secs. 1 & 6.
 Over level plain, drains SSE., through dense brush.

9.30 Dim old road, brs. E. & W.

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

80.00 Set an iron post 3 ft. long, 3 ins. in diam. 24 ins. in the ground for cor. of Tps. 3 & 4 N., Rs. 11 & 12 W., marked on brass cap, 1914 on S. rim,
 T 4 N in N.,
 T 3 N in S.,
 R 11 W in E., and
 R 12 W in W. half,
 S 36 in NW.,
 S 31 in NE.,
 S 6 in SE., and
 S 1 in SW. quad.; no trees available;
 dig pits 24x18x12 ins. on each line, E. & W. & N. 4 ft., and S. of cor. 8 ft. dist., and
 raise a mound of earth 5 ft. base $\frac{3}{4}$ ft. high S. of cor.
 Eagle Tail peak brs. S. $24^{\circ}35'$ E.
 Buckhorn Peak brs. S. $83^{\circ}22'$ E.
 A large stone monument on highest peak of granite mts. to NW. brs. N. $66^{\circ}09'$ W., about 15 miles dist.
 Land, level.
 Soil, 1st & 2nd rate, loamy, sandy, loose, dry, fine texture.
 Greasewood, sage brush, scrub paloverde and mesquite.

General description.

The W. bdy. of T. 3 N., R. 11 W. runs over a smooth, level plain, draining SSE. into the main draw of Centennial Wash, near the SW. cor. of Tp.

There is no water nor timber on or near the line, nor any indications of settlement or other occupation of the land. The land to the west of line extends comparatively smooth for from eight to 15 miles, opening out into the large valley to the west of the Eagle Tail Mts.

May 19, 1914.

North Boundary of T. 3 N., R. 11 W. 79.

Chains.

May 20, 1914.

At 8h a.m., l.m.t., at the cor. of Tps. 3 & 4 N., Rs. 10 & 11 W., hereinbefore described,

I set off 19°54' N. on the decl. arc, and 33°38' N. on the lat. arc, and determine a meridian with the solar. Thence I run, as per instructions,

West, on a random line, setting temp. $\frac{1}{4}$ sec. cor. at intervals of 40 chains.

At 5 miles, 78.50 chs. I intersect cor. of Tps. 3 & 4 N., Rs. 11 & 12 W., hereinbefore described, whence I run, East, on a true line bet. secs. 6 & 31.

Over level plain, drainage SSE., through dense greasewood, sage brush, few scrub mesquites and paloverde. Var. 14°30' E.

38.50 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 31 in N., and S 6 in S. half, 1914 on S. rim;

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

43.50 Old road, brs. N. & S.

78.50 Set an iron post 3 ft. long, 3 ins. in diam. 24 ins. in the ground for cor. of secs. 5, 6, 31 & 32, marked on brass cap, 1914 on S. rim,

T 4 N in N.,
T 3 N in S., and
R 11 W in W. half,
S 31 in NW.,
S 32 in NE.,
S 5 in SE., and
S 6 in SW. quad.; no trees near.

Dig pits 18x18x12 ins. in each sec. $5\frac{1}{2}$ ft. dist., and raise a mound of earth 4 ft. base 2 ft. high W. of cor. Land, level, drains SSE. Soil, 1st rate, loamy, loose. Greasewood, scrub mesquite and paloverde.

Note.

At this cor., at noon, I set off 19°56' N. on the decl. arc, and observe the sun on the meridian. The resulting lat. is 33°38' N.

East, bet. secs. 5 & 32.

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 32 in N., and S 5 in S. half, 1914 on S. rim;

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

80.00 Set an iron post 3 ft. long, 3 ins. in diam. 24 ins. in the ground for cor. of secs. 4, 5, 32 & 33, marked on brass cap, 1914 on S. rim,

T 4 N in N.,
T 3 N in S., and
R 11 W in W. half,
S 32 in NW.,
S 33 in NE.,
S 4 in SE., and
S 5 in SW. quad.;

dig pits 18x18x12 ins. in each sec. $5\frac{1}{2}$ ft. dist., and raise a mound of earth 4 ft. base 2 ft. high W. of cor. Land, level, drains SSE. Soil, 1st rate, sandy, loamy, loose, dry. Greasewood, sage brush, few cacti and scrub mesquite.

180.

North Boundary of T. 3 N., R. 11 W.

Chains.

East, bet. secs. 4 & 33.

Over level plain, through dense brush, drainage SSE.

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 33 in N., and

S 4 in S. half, 1914 on S. rim;

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

47.20

Old road, brs. WNW. & ESE.

80.00

Set an iron post 3 ft. long, 3 ins. in diam. 24 ins. in the ground for cor. of secs. 3, 4, 33 & 34, marked on brass cap, 1914 on S. rim,

T 4 N in N.,

T 3 N in S., and

R 11 W in W. half,

S 33 in NW.,

S 34 in NE.,

S 3 in SE., and

S 4 in SW. quad.; no trees in limits.

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

Land, level. Soil, 1st & 2nd rate, loamy, sandy, dry.

Greasewood, sage brush, few cacti, and scrub mesquites.

East bet. secs. 3 & 34.

Over level land, through dense brush, drainage S.

40.00

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

S 3 in S. half, 1914 on S. rim;

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

80.00

Set an iron post 3 ft. long, 3 ins. in diam. 24 ins. in the ground for cor. of secs. 2, 3, 34 & 35, marked on brass cap, 1914 on S. rim,

T 4 N in N.,

T 3 N in S., and

R 11 W in W. half,

S 34 in NW.,

S 35 in NE.,

S 2 in SE., and

S 3 in SW. quad.; no trees near.

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

Land, level.

Soil, 1st and 2nd rate, sandy, loamy, loose, medium texture.

Greasewood, sage brush, few cacti.

Chains.

East bet. secs. 2 & 35.
 Over level land, through dense brush.
 6.75 Wash, 20 lks. wide, course S.
 22.20 Wash, 20 lks. wide, course SSW.
 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,
 $\frac{1}{2}$ S 35 in N., and
 $\frac{1}{2}$ S 2 in S. half, 1914 on S. rim;
 dig pits 18x18x12 ins. E. & W. of cor. 3 ft. dist., and
 raise a mound of earth $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high N. of cor.
 51.20 Main road, Harrisburg to Phoenix, brs. NW. & 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 & 36, marked on
 brass cap, 1914 on S. rim,
 T 4 N in N.,
 T 3 N in S., and
 R 11 W in W. half,
 S 35 in NW.,
 S 36 in NE.,
 S 1 in SE., and
 S 2 in SW. quad.;
 dig pits 18x18x12 ins. in each sec. $5\frac{1}{2}$ ft. dist., and
 raise a mound of earth 4 ft. base 2 ft. high W. of cor.
 Land, level, drains S.
 Soil, 1st & 2nd rate, loamy, sandy, loose, dry.
 Greasewood, sage brush, few cacti.

East bet. secs. 1 & 36.
 Over level land, drains S., through dense brush.
 5.00 Wash, 20 lks. wide, course S.
 40.00 Set an iron post 3 ft. long, 1 in. in diam. 26 ins. in
 the ground for $\frac{1}{4}$ sec. cor., marked on brass cap,
 $\frac{1}{4}$ S 36 in N., and
 $\frac{1}{2}$ S 1 in S. half, 1914 on S. rim;
 dig pits 18x18x12 ins. E. & W. of cor. 3 ft. dist., and
 raise a mound of earth $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high N. of cor.
 64.00 Wash, 20 lks. wide, course SSW.
 80.00 To cor. of Tps. 3 & 4 N., Rs. 10 & 11 W. hereinbefore
 described.
 Land, level. Soil, 2nd rate, sandy, loose, dry.
 Greasewood, sage brush, few paloverde, scrub mesquite,
 May 20, 1914.

General description.

The N. bdy. of T. 3 N., R. 11 W. runs over a smooth, level valley or plain, draining south into the main draw of Centennial Wash. There is no water nor timber on or near the line.

782.

Boundaries of T. 3 N., R. 11 W.

Latitudes, departures and closing errors.

Line designated.	True bearing.	Dist.	Latitudes.		Departures.	
			N.	S.	E.	W.
		Chs.	Chs.	Chs.	Chs.	Chs.
South Boundary,	West,	479.04	-----	-----	-----	479.04
West Boundary,	North,	480.00	480.00	-----	-----	-----
North Boundary,	East,	478.50	-----	-----	478.50	-----
East Boundary,	South,	480.00	-----	480.00	-----	-----
Convergency,	-----	-----	-----	-----	0.48	-----
			480.00	480.00	478.98	479.04
			480.00	-----	-----	478.98
			<u>480.00</u>	<u>480.00</u>	<u>478.98</u>	<u>479.04</u>
			<u>480.00</u>	<u>480.00</u>	<u>478.98</u>	<u>478.98</u>
Error in Lat.,			-----	0.00	Error in Dep.,	---0.06

East Boundary of T. 4 S., R. 12 W.

83

Chains.

June 8, 1914.

At 8h a.m., l.m.t., at the cor. of Tps. 4 & 5 S., Rs. 11 & 12 W., an old post was re-established by me, as described in book "D.4"

I set off $22^{\circ}49\frac{1}{2}'$ N. on the decl. arc, and $33^{\circ}01\frac{1}{2}'$ N. on the lat. arc, and determine a meridian with the solar. Thence I run,

North, 14° E. bet. secs. 31 & 36.

Var. 14° E.

Over rolling land, asc. gently through dense greasewood, cacti, few paloverde and scrub mesquite and ironwoods.

9.25 Wash, 12 lks. wide, course SE.

25.00 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 $\frac{1}{4}$ sec. cor., marked on brass cap,

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

S 31 in E. half, 1914 on S. rim;

No trees available, pits impracticable.

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

Set an iron post 3 ft. long 3 ins. in diam. 24 ins. in the ground for cor. of secs. 25, 30, 31 & 36, marked on brass cap, 1914 on S. rim,

T 4 S in N. half,

R 12 W S 25 in NW.,

R 11 W S 30 in NE.,

S 31 in SE., and

S 36 in SW. quad.; from which,

A mesquite tree 9 ins. diam. brs. N. $55\frac{1}{2}^{\circ}$ E. 122 lks. dist., marked T 4 S R 11 W S 30 B T.

A paloverde tree 12 ins. diam. brs. S. 48° E. 138 lks. dist., marked T 4 S R 11 W S 31 B T.

A paloverde tree 8 ins. diam. brs. S. $46\frac{1}{2}^{\circ}$ W. 32 lks. dist., marked T 4 S R 12 W S 36 B T.

A paloverde tree 8 ins. diam. brs. N. $8\frac{1}{2}^{\circ}$ W. 108 lks. dist., marked T 4 S R 12 W S 25 B T.

Land, rolling.

Soil, 3rd rate, gravelly, dry, loose.

Greasewood, sage brush, paloverde, mesquite.

North bet. secs. 25 & 30.

15.50 Over rolling land, asc. gently, through dense brush.

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 $\frac{1}{4}$ sec. cor., marked on brass cap,

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

S 30 in E. half, 1914 on S. rim; pits imprac.

raise a mound of stone 2 ft. base, $1\frac{1}{2}$ 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. 19, 24, 25 & 30, marked on brass cap, 1914 on S. rim,

T 4 S in N. half,

R 12 W S 24 in NW.,

R 11 W S 19 in NE.,

S 30 in SE., and

S 25 in SW. quad.; from which,

An ironwood tree 8 ins. diam. brs. N. 10° W. 65 lks. dist., marked T 4 S R 12 W S 24 B T.

No other trees near, pits impracticable.

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

Land, rolling.

Soil, 3rd rate, sandy, gravelly, dry, loose.

Greasewood, sage brush, few cacti, ironwood, and mesquite.

Chains.

North bet. secs. 19 & 24.
 Over rolling land, through dense brush.
 35.60 Wash, 30 lks. wide, course SW.
 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 24 in W., and
 S 19 in E. half, 1914 on S. rim; from which,
 An ironwood tree 8 ins. diam. brs. N. $89\frac{3}{4}^{\circ}$ E. 95 lks. dist.,
 marked $\frac{1}{4}$ S 19 B T. No other trees near. Pits
 imprac. Raise a mound of stone 2 ft. base, $1\frac{1}{2}$ 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 & 24, marked on
 brass cap, 1914 on S. rim,
 T 4 S in N. half,
 R 12 W S 13 in NW.,
 R 11 W S 18 in NE.,
 S 19 in SE., and
 S 24 in SW. quad.; pits impracticable.
 Raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high W. of cor.
 Land, rolling.
 Soil, 2nd rate, sandy, gravelly, dry.
 Greasewood, cacti, few ironwood, paloverde trees.

North bet. secs. 13 & 18.
 Over rolling land, asc. gently, through dense brush.
 18.25 Wash, 20 lks. wide, course SW.
 39.75 Leave plain, brs. E. & W., asc. stony S. slope.
 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 18 in W., and
 S 13 in E. half, 1914 on S. rim; pits imprac.
 Note: At this cor., at noon, I set off $22^{\circ}50'$ N. on the decl.
 arc, and observe the sun on the meridian.
 The resulting lat. is $33^{\circ}05'$ N.
 80.00 Set an iron post 3 ft. long, 3 ins. in diam. 10 ins. in
 the ground to bed-rock, in mound of stone for cor. of
 secs. 7, 12, 13 & 18, marked on brass cap,
 1914 on S. rim,
 T 4 S in N. half,
 R 12 W S 12 in NW.,
 R 11 W S 7 in NE.,
 S 18 in SE., and
 S 13 in SW. quad.; pits impracticable.
 Raise a mound of stone 3 ft. base 2 ft. high W. of cor.
 Land, rolling, mts.
 Soil, 3rd rate, gravelly, stony, dry.
 Greasewood, sage brush, cacti.

East Boundary of T. 4 S., R. 12 W.

85

Chains.

North bet. secs. 7 & 12.
 Over mts. land, asc. prec. SW. slope of volcanic ridge.
 8.54 Top of ridge, brs. E. & W., desc. steep.
 25.00 Foot, brs. E. & W., desc. grad.
 40.00 Set an iron post 3 ft. long, 1 ins. in diam. 26 ins. in
 the ground for $\frac{1}{4}$ sec. cor., marked on brass cap,
 $\frac{1}{4}$ S 12 in W., and
 S 7 in E. half, 1914 on S. rim, pits imprac.
 Raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high W. of cor.
 Foot of slope, enter rolling valley, brs. E. & W.
 49.90 Wash, 60 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, 6, 7 & 12, marked on
 brass cap, 1914 on S. rim,
 T 4 S in N. half,
 R 12 W S 1 in NW.,
 R 11 W S 6 in NE.,
 S 7 in SE., and
 S 12 in SW. quad.;
 dig pits 18x18x12 ins. in each sec. $5\frac{1}{2}$ ft. dist., and
 raise a mound of earth 4 ft. base 2 ft. high W. of cor.
 Land, mts., rolling.
 Soil, 2nd & 3rd rate, stony, gravelly, dry, coarse.
 Greasewood, cacti, scrub mesquite and ironwood.

North bet. secs. 1 & 6.
 Over level land, through dense brush.
 28.50 Dim road, brs. NW. & SE.
 32.80 Wash, 60 lks. wide, course SE.
 40.00 Set an iron post 3 ft. long, 1 in. in diam. 26 ins. in
 the ground for $\frac{1}{4}$ sec. cor., marked on brass cap,
 $\frac{1}{4}$ S 1 in W., and
 S 6 in E. half, 1914 on S. rim; from which,
 A paloverde tree 12 ins. diam. brs. N. 42° W. 108 lks. dist.,
 marked $\frac{1}{4}$ S 1 B T.
 An ironwood tree 14 ins. diam. brs. S. $31\frac{1}{2}^\circ$ E. 244 lks. dist.,
 marked $\frac{1}{4}$ S 6 B T.
 70.50 Wash, 20 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 Tps. 3 & 4 S., Rs. 11 & 12 W.,
 marked on brass cap, 1914 on S. rim,
 T 3 S in N.,
 T 4 S in S.,
 R 11 W in E., and
 R 12 W in W. half,
 S 36 in NW.,
 S 31 in NE.,
 S 6 in SE., and
 S 1 in SW. quad.; from which,
 A paloverde tree 6 ins. diam. brs. N. $29\frac{3}{4}^\circ$ W. 278 lks. dist.,
 marked T 3 S R 12 W S 36 B T.
 A paloverde tree 8 ins. diam. brs. S. $24\frac{1}{2}^\circ$ W. 344 lks. dist.,
 marked T 4 S R 12 W S 1 B T.
 No other bearings available.
 Dig pits 24x24x12 ins. on each line, N., E., and W., 4 ft.,
 and S. of cor. 8 ft. dist., and
 raise a mound of earth 5 ft. base $2\frac{1}{2}$ ft. high S. of cor.
 Land, level, gently rolling.
 Soil, 1st & 2nd rate, loamy, sandy, loose, dry, fine.
 Greasewood, paloverde, few scrub ironwood and mesquites.

General Description.

The E. bdy. of T. 4 S., R. 12 W. runs over a rolling plain, ascending gradually for $3\frac{1}{2}$ miles, crossing near the E. end of small range of volcanic hills, thence descending into the valley again to the north.

There is no water, timber, nor settlement along or near the line.

June 8, 1914.

Chains.

June 22, 1914.

At 8h a.m., l.m.t., at the cor. of Tps. 4 & 5 S., Rs. 9 & 10 W., an iron post ~~re-~~re-established by me, as described in book "D."

I set off $23^{\circ}27\frac{1}{2}'$ N. on the decl. arc, and $33^{\circ}01\frac{1}{2}'$ N. on the lat. arc, and determine a meridian with the solar. Thence I run, as per instructions,

North, ~~course~~, bet. secs. 31 & 36.

Var. 14° E.

Over gently undulating land, through dense greasewood, few paloverde trees and cacti.

3.90 Wash, 150 lks. wide, course SE.

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

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

S 31 in E. half, 1914 on S. rim,

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

80.00 Set an iron post 3 ft. long, 3 ins. in diam. 24 ins. in the ground for cor. of secs. 25, 30, 31 & 36, marked on brass cap, 1914 on S. rim,

T 4 S in N. half,

R 9 W S 30 in NE.,

R 10 W S 25 in NW.,

S 31 in SE., and

S 36 in SW. quad.; no trees near.

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, gently rolling.

Soil, 1st and 2nd rate, loamy, sandy, dry, loose.

Greasewood, sage brush, cacti, few paloverde trees.

North bet. secs. 25 & 30.

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 25 in W., and

S 30 in E. half, 1914 on S. rim,

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

80.00 Set an iron post 3 ft. long, 3 ins. in diam. 24 ins. in the ground for cor. of secs. 19, 24, 25 & 30, marked on brass cap, 1914 on S. rim,

T 4 S in N. half,

R 10 W S 24 in NW.,

R 9 W S 19 in NE.,

S 30 in SE., and

S 25 in SW. quad.;

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, 1st and 2nd rate, loamy, sandy, dry, loose, fine t.

Greasewood, sage brush, few cacti.

East Boundary of T. 4 S., R. 10 W.

Chains.

North bet. secs. 19 & 24.
 Over level plain, drains S., 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 24 in W., and S 19 in E. half, 1914 on S. rim; dig pits 18x18x12 ins. N. & S. of cor. 3 ft. dist., and raise a mound of earth $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high W. of cor.

80.00 Set an iron post 3 ft. long, 3 ins. in diam. 24 ins. in the ground for cor. of secs. 13, 18, 19 & 24, marked on brass cap, 1914 on S. rim, T 4 S in N. half, R 10 W S 13 in NW., R 9 W S 18 in NE., S 19 in SE., and S 24 in SW. quad.; no trees near. Dig pits 18x18x12 ins. in each sec. $5\frac{1}{2}$ ft. dist., and raise a mound of earth 4 ft. base 2 ft. high W. of cor. Land, level. Soil, 2nd rate, loamy, sandy, dry. Greasewood, sage brush, few cacti.

Note: At this cor., at noon, I set off $23^{\circ}27'$ N. on the decl. arc, and observe the sun on the meridian. The resulting lat. is $33^{\circ}04\frac{1}{2}'$ N.

North bet. secs. 13 & 18.
 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 13 in W., and S 18 in E. half, 1914 on S. rim; dig pits 18x18x12 ins. N. & S. of cor. 3 ft. dist., and raise a mound of earth $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high W. of cor.

80.00 Set an iron post 3 ft. long, 3 ins. in diam. 24 ins. in the ground for cor. of secs. 7, 12, 13 & 18, marked on brass cap, 1914 on S. rim, T 4 S in N. half, T 10 W S 12 in NW., R 9 W S 7 in NE., S 18 in SE., and S 13 in SW. quad.; from which,
 A paloverde tree 8 ins. diam. brs. N. $45\frac{1}{2}^{\circ}$ W. 110 lks. dist., marked T 4 S R 10 W S 12 B T.
 A paloverde tree 8 ins. diam. brs. N. $37\frac{1}{2}^{\circ}$ E. 256 lks. dist., marked T 4 S R 9 W S 7 B T.
 A paloverde tree 12 ins. diam. brs. S. 32° E. 160 lks. dist. marked T 4 S R 9 W S 18 B T.
 A paloverde tree 8 ins. diam. brs. S. 57° W. 40 lks. dist., marked T 4 S R 10 W S 13 B T.

Land, level.
 Soil, 1st & 2nd rate, loamy, sandy, loose, dry.
 Greasewood, sage brush, paloverde, cacti.

Chains.

North bet. secs. 7 & 12.

- 40.00 Over level plain, drains S., through dense brush.
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 12 in W., and S 7 in E. half; 1914 on S. rim; from which, A paloverde tree 12 ins. diam. brs. N. $24\frac{1}{4}^{\circ}$ E. 138 lks. dist., marked $\frac{1}{4}$ S 7 B T.
No other trees near. Dig pits 18x18x12 ins. N. & S. of cor. 3 ft. dist., and raise a mound of earth $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high W. of cor.
- 80.00 Set an iron post 3 ft. long, 3 ins. in diam. 24 ins. in the ground for cor. of secs. 1, 6, 7 & 12, marked on brass cap, 1914 on S. rim;
T 4 S in N. half,
R 10 W S 1 in NW.,
R 9 W S 6 in NE.,
S 7 in SE., and
S 12 in SW. quad.; from which,
A paloverde tree 10 ins. diam. brs. N. 15° W. 96 lks. dist., marked T 4 S R 10 W S 1 B T.
A paloverde tree 8 ins. diam. brs. N. $18\frac{1}{4}^{\circ}$ E. 162 lks. dist., marked T 4 S R 9 W S 6 B T.
A paloverde tree 14 ins. diam. brs. S. 20° E. 353 lks. dist., marked T 4 S R 9 W S 7 B T.
A paloverde tree 18 ins. diam. brs. S. $23\frac{1}{4}^{\circ}$ W. 117 lks. dist., marked T 4 S R 10 W S 12 B T.
Land, level. Soil, 2nd rate, loamy, sandy, loose, dry. Greasewood, sage brush, paloverde, few cacti.

North bet. secs. 1 & 6.

- 40.00 Over level land, through dense brush.
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., and S 6 in E. half, 1914 on S. rim; from which, A paloverde tree 18 ins. diam. brs. N. 37° W. 95 lks. dist., marked $\frac{1}{4}$ S 1 B T.
A paloverde tree 14 ins. diam. brs. S. $8\frac{1}{2}^{\circ}$ E. 232 lks. dist., marked $\frac{1}{4}$ S 6 B T.
- 80.00 Set an iron post 3 ft. long, 3 ins. in diam. 24 ins. in the ground for cor. of tps. 3 & 4 S., Rs. 9 & 10 W., marked on brass cap, 1914 on S. rim,
T 3 S in N.,
T 4 S in S.,
R 9 W in E., and
R 10 W in W. half,
S 36 in NW.,
S 31 in NE.,
S 6 in SE., and
S 1 in SW. quad.; from which,
A paloverde tree 8 ins. diam. brs. N. $49\frac{1}{2}^{\circ}$ W. 352 lks. dist., marked T 3 S R 10 W S 36 B T.
An ironwood tree 48 ins. diam. brs. N. $68\frac{1}{2}^{\circ}$ E. 152 lks. dist., marked T 3 S R 9 W S 31 B T.
A paloverde tree 8 ins. diam. brs. S. $57\frac{3}{4}^{\circ}$ E. 187 lks. dist., marked T 4 S R 9 W S 6 B T.
A paloverde tree 8 ins. diam. brs. S. $89\frac{1}{2}^{\circ}$ W. 320 lks. dist., marked T 4 S R 10 W S 6 B T.
Land, level.
Soil, 2nd rate, loamy, sandy, dry, loose, fine texture. Greasewood, sage brush, few cacti, paloverde, ironwood, scrub mesquite.

June 22, 1914.

North Boundary of T. 4 S., R. 10 W.

89

Chains.

June 23, 1914.

At 8h a.m., l.m.t., at the cor. of Tps. 3 & 4 S., Rs. 9 & 10 W., hereinbefore described,

I set off $23^{\circ}27\frac{1}{2}'$ N. on the decl. arc, and $33^{\circ}07'$ N. on the lat. arc, and determine a meridian with the solar.

Thence I run, as per instructions,

West, on a random line, setting temp. $\frac{1}{4}$ chs. cors. at intervals of 40 chs.

At 5 miles, 77.07 chs. I intersect W. bdy. of Tp. 126 lks.

S. of cor. of Tps. 3 & 4 S., Rs. 10 & 11 W., as described in Book "B." described by John D. Wingo,

whence I run,

S. $89^{\circ}51'$ E. on a true line, bet. secs. 6 & 31.Var. 14° E.

Over level or gently rolling plain, drains S., through dense greasewood, sage brush, few cacti, paloverde, scrub mesquite and ironwood trees.

37.07 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 31 in N., and

S 6 in S. half, 1914 on S. rim; from which,

A paloverde tree 10 ins. diam. brs. S. $13\frac{1}{2}^{\circ}$ E. 268 lks. dist., marked $\frac{1}{4}$ S 6 B T.A mesquite tree 8 ins. diam. brs. N. $68\frac{1}{4}^{\circ}$ E. 311 lks. dist., marked $\frac{1}{4}$ S 31 B T.

77.07 Set an iron post 3 ft. long, 3 ins. in diam. 24 ins. in the ground for cor. of secs. 5, 6, 31 & 32, marked on brass cap, 1914 on S. rim;

T 3 S in N.,

T 4 S in S., and

R 10 W in W. half,

S 31 in NW.,

S 32 in NE.,

S 5 in SE., and

S 6 in SW. quad.; from which,

A paloverde tree 8 ins. diam. brs. N. $22\frac{1}{2}^{\circ}$ W. 430 lks. dist., marked T 3 S R 10 W S 31 B T.A paloverde tree 8 ins. diam. brs. N. $77\frac{1}{4}^{\circ}$ E. 59 lks. dist., marked T 3 S R 10 W S 32 B T.A paloverde tree 8 ins. diam. brs. S. 31° E. 86 lks. dist., marked T 4 S R 10 W S 5 B T.A paloverde tree 8 ins. diam. brs. S. $4\frac{1}{2}^{\circ}$ W. 312 lks. dist., marked T 4 S R 10 W S 6 B T.

Land, level. Soil, 2nd rate, loamy, sandy, loose, dry. Greasewood, paloverde, ironwood, mesquite.

S. $89^{\circ}51'$ E. bet. secs. 5 & 32.

Over level plain, 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 32 in N., and

S 5 in S. half, 1914 on S. rim; from which,

A paloverde tree 9 ins. diam. brs. N. $79\frac{1}{2}^{\circ}$ W. 363 lks. dist., marked $\frac{1}{4}$ S 32 B T.A paloverde tree 9 ins. diam. brs. S. 77° E. 190 lks. dist., marked $\frac{1}{4}$ S 5 B T.

72.75 Wash, 30 lks. wide, course S.

80.00 Set an iron post 3 ft. long, 3 ins. in diam. 24 ins. in the ground for cor. of secs. 4, 5, 32 & 33, marked on brass cap, 1914 on S. rim,

T 3 S in N., T 4 S in S., and

R 10 W in W. half,

S 32 in NW., S 33 in NE.,

S 4 in SE., & S 5 in SW. quad.; from which,

A paloverde tree 6 ins. diam. brs. N. 29° W. 173 lks. dist., marked T 3 S R 10 W S 32 B T.A paloverde tree 14 ins. diam. brs. N. 57° E. 226 lks. dist., marked T 3 S R 10 W S 33 B T.A paloverde tree 14 ins. diam. brs. S. $62\frac{1}{2}^{\circ}$ E. 176 lks. dist., marked T 4 S R 10 W S 4 B T.A paloverde tree 6 ins. diam. brs. S. $73\frac{1}{2}^{\circ}$ W. 367 lks. dist., marked T 4 S R 10 W S 5 B T.

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

90

North Boundary of T. 4 S., R. 10 W.

Chains.

- S. $89^{\circ}51'$ E. bet. secs. 4 & 33.
Over level land, through dense brush.
- 31.25 Road, brs. N. & S.
- 40.00 Set an iron post 3 ft. long, 1 in. in diam. 26 ins. in the ground for $\frac{1}{4}$ sec. cor., marked on brass cap, $\frac{1}{4}$ S 33 in N., and 1914 on S. rim, and S 4 in S. half; from which,
A paloverde tree 14 ins. diam. brs. N. $57^{\circ}4'$ E. 300 lks. dist., marked $\frac{1}{4}$ S 33 B T.
A paloverde tree 8 ins. diam. brs. S. 30° W. 60 lks. dist., marked $\frac{1}{4}$ S 4 B T.
- Note: At this cor., at noon, I set off $23^{\circ}27'$ N. on the decl. arc, and observe the sun on the meridian.
The resulting lat. is $33^{\circ}07'$ N.
- 78.00 Wash, 4 chs. wide, course S.
- 80.00 Set an iron post 3 ft. long, 3 ins. in diam. 24 ins. in the ground for cor. of secs. 3, 4, 33 & 34, marked on brass cap, 1914 on S. rim,
T 3 S in N.,
T 4 S in S., and
R 10 W in W. half,
S 33 in NW.,
S 34 in NE.,
S 3 in SE., and
S 4 in SW. quad.; from which,
A paloverde tree 8 ins. diam. brs. N. $52^{\circ}1'$ W. 190 lks. dist., marked T 3 S R 10 W S 33 B T.
- No other trees near.
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, 2nd rate, loamy, dry.
Greasewood, paloverde.

- S. $89^{\circ}51'$ E. bet. secs. 3 & 34.
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, 1914 on S. rim;
 $\frac{1}{4}$ S 34 in N., and
S 3 in S. half; from which,
A paloverde tree 12 ins. diam. brs. N. $69^{\circ}3'$ W. 133 lks. dist., marked $\frac{1}{4}$ S 34 B T.
A paloverde tree 8 ins. diam. brs. S. 81° W. 188 lks. dist., marked $\frac{1}{4}$ S 3 B T.
- 46.00 Wash, 50 lks. wide, course S.
- 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 & 35, marked on brass cap, 1914 on S. rim;
T 3 S in N.,
T 4 S in S., and
R 10 W in W. half,
S 34 in NW.,
S 35 in NE.,
S 2 in SE., and
S 3 in SW. quad.; no trees available.
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, 2nd rate, loamy, dry, loose.
Greasewood, sage brush, few cacti, paloverde, ironwoods.

- S. $89^{\circ}51'$ E. bet. secs. 2 & 35.
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 35 in N., and
S 2 in S. half, 1914 on S. rim; from which,
A paloverde tree 8 ins. diam. brs. N. $79^{\circ}2'$ W. 106 lks. dist., marked $\frac{1}{4}$ S 35 B T.
A paloverde tree 12 ins. diam. brs. S. $18^{\circ}2'$ E. 57 lks. dist., marked $\frac{1}{4}$ S 2 B T.

Chains.

57.73 Road, brs. N. & S.
 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 & 36, marked on brass cap, 1914 on S. rim,
 T 3 S in N.,
 T 4 S in S., and
 R 10 W in W. half,
 S 35 in NW.,
 S 36 in NE.,
 S 1 in SE., and
 S 2 in SW. quad.; from which,
 A paloverde tree 10 ins. diam. brs. N. $40\frac{1}{2}^{\circ}$ W. 124 lks. dist., marked T 3 S R 10 W S 35 B T.
 No other trees available, pits impracticable.
 Raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high W. of cor. Land, level, drains S.
 Soil, 2nd rate, sandy, gravelly.
 Greasewood, paloverde, sage brush, cacti.

S. 89*51' E. bet. secs. 1 & 36.
 Over level land, drains S., through dense brush.
 6.20 Wash, 1 ch. wide, course S.
 40.00 Set an iron post 3 ft. long, 1 in. in diam. 26 ins. in the ground for $\frac{1}{4}$ sec. cor., marked on brass cap,
 $\frac{1}{4}$ S 36 in N., and
 S 1 in S. half, 1914 on S. rim; from which,
 A paloverde tree 16 ins. diam. brs. N. 67° W. 148 lks. dist., marked $\frac{1}{4}$ S 36 B T.
 A paloverde tree 8 ins. diam. brs. S. $53\frac{1}{4}^{\circ}$ W. 58 lks. dist., marked $\frac{1}{4}$ S 1 B T.
 45.00 Draw, 8 chs. wide, course S.
 80.00 To cor. of Tps. 3 & 4 S., Rs. 9 & 10 W., hereinbefore described.
 Land, level, drains S.
 Soil, 1st & 2nd rate, loamy, sandy, loose, dry, fine.
 Greasewood, paloverde, sage brush, few cacti.

General Description.

The E. & N. bdrs. of T. 4 S., R. 10 W. run over smooth or gently rolling plain, draining S. into the Gila River.
 There is no water, timber, nor settlement along or near these lines.

June 23, 1914.

Latitudes, departures, and closing errors.

Line Designated.	True bearing.	Dist.	Latitude.		Departure.	
			N.	S.	E.	W.
		Chs.	Chs.	Chs.	Chs.	Chs.
South Boundary	N. 89°06' W.	78.90	1.23	-----	-----	78.89
	N. 89°14' W.	39.64	0.53	-----	-----	39.64
	S. 89°50' W.	39.30	-----	0.11	-----	39.30
	N. 89°40' W.	79.66	0.47	-----	-----	79.66
	S. 89°25' W.	40.24	-----	0.41	-----	40.24
	N. 89°50' W.	40.20	0.11	-----	-----	40.20
	West,	40.19	-----	-----	-----	40.19
	S. 89°45' W.	40.21	-----	0.18	-----	40.21
	S. 89°55' W.	40.03	-----	0.06	-----	40.03
	S. 89°55' W.	39.42	-----	0.06	-----	39.42
West Boundary, North,		480.00	480.00	-----	-----	-----
North Boundary, S. 89°51' E.		477.07	-----	1.26	477.07	-----
East Boundary, South,		480.00	-----	480.00	-----	-----
Convergency,	-----	-----	-----	-----	0.48	-----
Totals, -----			482.34	482.08	477.55	477.78
			482.08	-----	-----	477.55
Error in Lat., -----			0.26	Error in Dep., -----	0.23	

Done 13, 1914.

East Boundary of T. 4 S., R. 8 W.

93

Chains.

- July 5, 1914. orig.
 At 8h a.m., l.m.t., at the cor. of Tps. 4 & 5 S., Rs. 7 & 8 W., which is an iron post, marked and witnessed as described by the Surveyor General,
 I set off $22^{\circ}51\frac{1}{2}'$ N. on the decl. arc, and $33^{\circ}01\frac{1}{2}'$ N. on the lat. arc, and determine a meridian with the solar. Thence I run, as per instructions,
 North, bet. secs. 31 & 36.
 Over heavily rolling, broken land, through scattering greasewood, paloverde, scrub mesquite, cacti.
- 10.70 Wash, 30 lks. wide, course WNW.
 20.60 Wash, 30 lks. wide, course WNW.
 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 W., and
 $\frac{1}{4}$ S 31 in E. half, 1914 on S. rim;
 No bearings available, pits impracticable.
 Raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high W. of cor.
- 45.80 Wash, 20 lks. wide, course NW.
 68.10 Wash, 20 lks. wide, course WNW.
 75.00 Wash, 30 lks. wide, course WSW.
 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 & 36, marked on brass cap, 1914 on S. rim,
 T 4 S in N. half,
 R 8 W S 25 in NW.,
 R 7 W S 30 in NE.,
 S 31 in SE., and
 S 36 in SW. quad.; no trees near. Pits imprac.
 Raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high W. of cor.
 Land, rolling, broken.
 Soil, 2nd & 3rd rate, gravelly, stony, dry.
 Greasewood, cacti, few paloverde trees.
-
- North bet. secs. 25 & 30.
 Over heavily rolling, broken land, along near W. foot of mountains to E.
- 22.50 Gulch, 30 lks. wide, course W.
 33.08 A windlass over shaft brs. S. $59^{\circ}05'$ W.
 Smokestack of Rowley Copper Co. brs. N. $55^{\circ}43'$ W.
 40.00 Set an iron post 3 ft. long, 1 in. in diam. 26 ins. in the ground for $\frac{1}{4}$ sec. cor., marked on brass cap,
 $\frac{1}{4}$ S 25 in W., and
 $\frac{1}{4}$ S 30 in E. half, 1914 on S. rim; pits imprac.
 raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high W. of cor.
- 41.00 Gulch, 15 lks. wide, course W., asc. steep.
 45.77 Spur, brs. SW. & NE., thence asc. SW. slope.
 Windlass over shaft brs. S. $32^{\circ}40'$ W.
 Smokestack of Rowley mine brs. N. $84^{\circ}42'$ W.
 47.00 Rowley mining camp brs. West, 22 chs. dist.
 65.60 Top of high rocky peak on ridge, brs. NW. & SE., desc. prec.
 79.00 Foot of prec. descent, brs. NW. & SE.
 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 & 30, marked on brass cap, 1914 on S. rim,
 T 4 S in N. half,
 R 8 W S 24 in NW.,
 R 7 W S 19 in NE.,
 S 30 in SE., and
 S 25 in SW. quad.; pits impracticable.
 Raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high W. of cor.
 Land, mts., broken, rough.
 Soil, 3rd & 4th rate, stony.
 Greasewood, cacti.

Chains.

- North bet. secs. 19 & 24.
Over mts. land, desc. along E. slope of mountain ridge.
- 8.70 Spur, brs. E. & W.
14.00 Spur, brs. E. & W., from W.,
30.00 Spur, brs. W. & E., desc.
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 24 in W., and
S 19 in E. half, 1914 on S. rim; pits imprac.
Raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high W. of cor.
47.80 Wash, 40 lks. wide, course NW.
73.60 Gulch, 20 lks. wide, course NE., asc. SE. slope.
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 & 24, marked on
brass cap, 1914 on S. rim,
T 4 S in N. half,
R 8 W S 13 in NE.,
R 7 W S 18 in NE.,
S 19 in SE., and
S 24 in SW. quad.; no trees near. Pits imprac.
Raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high W. of cor.
Land, broken, mts.
Soil, 3rd rate, gravelly, stony, dry.
Greasewood, cacti, few paloverde and small ironwood trees.
- Note: At this cor., at noon, I set off $22^{\circ}50'$ N. on the decl.
arc, and observe the sun on the meridian.
The resulting lat. is $33^{\circ}04'$ N.

- North bet. secs. 13 & 18.
Over mts. land, asc. SE. slope.
- 19.00 Top of rise, on E. side of rocky volcanic hill, brs. E.
& W., desc. steep N. slope.
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 13 in W., and
S 18 in E. half, 1914 on S. rim; pits imprac.
raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high W. of cor.
Foot of main slope, brs. E. & W.
53.00 Enter land in Gila River valley, subject to overflow,
brs. E. & W., very dense brush, arrowweed, paloverde.
56.60 Canal, (dry), 15 lks. wide, 5 ft. deep, course W.
75.60 Leave overflow land, brs. E. & W., asc. bank, 20 ft. high.
80.00 On an island in Gila River channel,
Set an iron post 3 ft. long, 3 ins. in diam. 24 ins. in
the ground for cor. of secs. 7, 12, 13 & 18, marked on
brass cap, 1914 on S. rim,
T 4 S in N. half,
R 8 W S 12 in NW.,
R 7 W S 7 in NE.,
S 18 in SE., and
S 13 in SW. quad.; from which,
A paloverde tree 12 ins. diam. brs. N. 43° W. 73 lks. dist. m
marked T 4 S R 8 W S 12 B T.
A paloverde tree 10 ins. diam. brs. N. 86° E. 86 lks. dist.,
marked T 4 S R 7 W S 7 B T.
A paloverde tree 10 ins. diam. brs. S. $13\frac{1}{2}^{\circ}$ E. 123 lks. dist.,
marked T 4 S R 7 W S 18 B T.
A paloverde tree 8 ins. diam. brs. S. $33\frac{1}{2}^{\circ}$ W. 104 lks. dist.,
marked T 4 S R 8 W S 13 B T.
A monument on lone volcanic hill brs. S. $46^{\circ}36'$ W.
Land, mts., rolling, level.
Soil, 1st & 2nd rate, stony, sandy, gravelly, loose, dry.
Greasewood, arrowweed, cacti, paloverde, ironwood,
cottonwood in valley of Gila.

Chains	
	North bet. secs. 7 & 12. Over level land, through dense brush.
12.30	S. bank of Main channel of Gila River, brs. WSW. & ENE., desc. abruptly 5 ft. to Gila River, now dry, course WSW.
40.00	Point for $\frac{1}{4}$ sec. cor. falls in river bed.
51.00	N. bank of River 20 ft. high, brs. WSW. & ENE.
52.50	Wash, 75 lks. wide, 18 ft. deep, course SW.
55.00	Set an iron post 3 ft. long, 1 in. in diam. 26 ins. in the ground for witness cor. to $\frac{1}{4}$ sec. cor., marked on brass cap, 1914 on S. rim, W C. $\frac{1}{4}$ S. of centre, S 12 in NW., and S 7 in NE. quad.; from which, A paloverde tree 10 ins. diam. brs. N. 69° E. 75 lks. dist., marked $\frac{1}{4}$ S 7 W C B T. A mesquite tree 8 ins. diam. brs. S. 50° W. 71 lks. dist., marked $\frac{1}{4}$ S 12 W C B T.
67.50	Wash, 2 chs. wide, course SW.
72.00	Wash, 40 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. 1, 6, 7 & 12, marked on brass cap, 1914 on S. rim, T 4 S in N. half, R 8 W S 1 in NW., R 7 W S 6 in NE., S 7 in SE., and S 12 in SW. quad.; no trees near. Pits imprac. Raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high W. of cor. Land, level, rolling. Soil, 1st, and 2nd rate, loamy, sandy, loose, dry. Greasewood, arrowweed, cacti, paloverde, cottonwood along river.
	<hr/>
	North bet. secs. 1 & 6. Over rolling land, asc. grad., through scattering brush.
8.50	Gulch, 20 lks. wide, course SW.
38.00	Gulch, 20 lks. wide, course SW.
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., and S 6 in E. half, 1914 on S. rim, pits imprac. raise a mound of stone 2 ft. base, $1\frac{1}{2}$ 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 Tps. 3 & 4 S., Rs. 7 & 8 W., marked on brass cap, 1914 on S. rim, T 3 S in N., T 4 S in S., R 7 W in E., and R 8 W in W. half, S 36 in NW., S 31 in NE., S 6 in SE., and S 1 in SW. quad.; pits impracticable. Raise a mound of stone 3 ft. base 2 ft. high S. of cor. Land, mts., broken. Soil, 3rd rate, gravelly, stony, dry. Greasewood, scrub mesquite, paloverde, cacti. July 5, 1914.
	<hr/>
	General Description. The E. bdy. of T. 4 S., R. 8 W. runs over broken, or mts. land, near the W. foot of rocky range of mts. to E., gradually ascending, and crossing this range at 2 miles, thence descending into the valley of the Gila River. From the Gila River the line ascends over broken, gravelly or stony land. There is no water nor timber on or near the line, nor any indications of any settlement.

Chains.

July 6, 1914.

At 7h a.m., l.m.t., at the cor. of Tps. 3 & 4 S., Rs. 7 & 8 W., hereinbefore described,

I set off $22^{\circ}46'$ N. on the decl. arc, and $33^{\circ}06\frac{1}{2}'$ on the lat. arc, and determine a meridian with the solar.

Thence I run, as per instructions,

West, $0^{\circ}00'$, bet. secs. 1 & 36.

Var. $14^{\circ}10'$ E.

Over hilly land, desc., through scattering brush.

13.00 Gulch, 30 lks. wide, course SW.

25.90 Gulch, 30 lks. wide, course SW.

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 in S. half, 1914 on S. rim, Pits imprac.

raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high N. of cor.

41.90 Gulch, 1 ch. wide, course SW.

49.85 Road, Phoenix to Caliente and Yuma, brs. NE. & SW.

67.12 Wash, 3 chs. wide, course S.

69.70 Low ridge, brs. N. & S.

70.75 Wash, 50 lks. wide, course S.

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 & 36, marked on brass cap, 1914 on S. rim,

T 3 S in N.,

T 4 S in S., and

R 8 W in W. half,

S 35 in NW.,

S 36 in NE.,

S 1 in SE., and

S 2 in SW. quad.; no trees near. Pits imprac.

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

Land, mts., heavily rolling, broken.

Soil, 2nd & 3rd rate, gravelly, dry, stony.

Greasewood, scrub mesquite, paloverde, cacti.

West, bet. secs. 2 & 35.

Over rolling land, through scattering brush.

31.50 Wash, 30 lks. wide, course S.

40.00 Set an iron post 3 ft. long, 1 in. in diam. 26 ins. in the ground for $\frac{1}{4}$ sec. cor., marked on brass cap,
 $\frac{1}{4}$ S 35 in N., and

S 2 in S. half, 1914 on S. rim, Pits imprac.

raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high N. of cor.

55.00 Wash, 150 lks. wide, course S.

63.25 Wash, 1 ch. wide, course S.

67.50 Wash, 1 ch. wide, course S.

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 & 35, marked on brass cap, 1914 on S. rim,

T 3 S in N.,

T 4 S in S., and

R 8 W in W. half;

S 34 in NW.,

S 35 in NE.,

S 2 in SE., and

S 3 in SW. quad.; from which,

An ironwood tree 10 ins. diam. brs. N. $21\frac{1}{2}^{\circ}$ W. 116 lks. dist., marked T 3 S R 8 W S 34 B T.

A paloverde tree 8 ins. diam. brs. N. $54\frac{1}{2}^{\circ}$ E. 164 lks. dist., marked T 3 S R 8 W S 35 B T.

A paloverde tree 8 ins. diam. brs. S. 71° E. 145 lks. dist., marked T 4 S R 8 W S 2 B T.

A paloverde tree 16 ins. diam. brs. S. $4\frac{1}{2}^{\circ}$ W. 123 lks. dist., marked T 4 S R 8 W S 3 B T.

Land, broken.

Soil, 3rd rate, gravelly, dry.

Greasewood, scrub mesquite, paloverde, ironwood, cacti.

Chains.

- West, bet. secs. 3 & 34.
Over rolling land, through scattering brush.
- 5.20 Wash, 150 lks. wide, course SSE.
- 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 34 in N., and
S 3 in S. half, 1914 on S. rim; from which,
A paloverde tree 8 ins. diam. brs. N. $37\frac{1}{4}^{\circ}$ E. 1 ch. dist., marked $\frac{1}{4}$ S 34 B T.
A paloverde tree 10 ins. diam. brs. S. $73\frac{1}{2}^{\circ}$ W. 173 lks. dist., marked $\frac{1}{4}$ S 3 B T.
- 80.00 Set an iron post 3 ft. long, 3 ins. in diam. 24 ins. in the ground for cor. of secs. 3, 4, 33 & 34, marked on brass cap, 1914 on S. rim,
T 3 S in N.,
T 4 S in S., and
R 8 W in W. half,
S 33 in NW.,
S 34 in NE.,
S 3 in SE., and
S 4 in SW. quad.; from which,
A paloverde tree 14 ins. diam. brs. N. $28\frac{1}{4}^{\circ}$ E. 157 lks. dist., marked T 3 S R 8 W S 34 B T. No other trees available.
Dig pits 18x18x12 ins. in each sec. $5\frac{1}{2}$ ft. dist., and raise a mound of earth 4 ft. base 2 ft. high W. of cor. Land, level, rolling. Soil, 2nd rate, gravelly.
Greasewood, cacti, paloverde, scrub mesquite.
- Note: At this cor., at noon, I set off $22^{\circ}44'$ N. on the decl. arc, and observe the sun on the meridian.
The resulting lat. is $33^{\circ}06\frac{1}{2}'$ N.
-
- West, bet. secs. 4 & 33.
Over rolling 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 33 in N., and
S 4 in S. half, 1914 on S. rim; from which,
A paloverde tree 12 ins. diam. brs. N. 77° E. 115 lks. dist., marked $\frac{1}{4}$ S 33 B T. No other trees available.
Dig pits 18x18x12 ins. E. & W. of cor. 3 ft. dist., and raise a mound of earth $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high N. of cor.
- 71.50 Wash, 1 ch. wide, course SSE.
- 80.00 Set an iron post 3 ft. long, 3 ins. in diam. 24 ins. in the ground for cor. of secs. 4, 5, 32 & 33, marked on brass cap, 1914 on S. rim,
T 3 S in N.,
T 4 S in S., and
R 8 W in W. half,
S 32 in NW.,
S 33 in NE.,
S 4 in SE., and
S 5 in SW. quad.; no trees available. Pits im-
- prac. Raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high W. of cor. Land, rolling. Soil, 2nd rate, sandy, gravelly, dry.
Greasewood, sage brush, cacti, scrub mesquite.
-
- West, bet. secs. 5 & 32.
Over rolling land, through scattering brush.
- 28.20 Wash, 1 ch. wide, course SSE.
- 30.50 Wash, 1 ch. wide, course SSE.
- 36.80 Wash, 25 lks. wide, course S.
- 40.00 Set an iron post 3 ft. long, 1 in. in diam. 26 ins. in the ground for $\frac{1}{4}$ sec. cor., marked on brass cap,
 $\frac{1}{4}$ S 32 in N., and
S 5 in S. half; no trees near.
Dig pits 18x18x12 ins. E. & W. of cor. 3 ft. dist., and raise a mound of earth $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high N. of cor.
- 80.00 Set an iron post 3 ft. long, 3 ins. in diam. 24 ins. in the ground for cor. of secs. 5, 6, 31 & 32, marked on brass cap,

Chains. 1914 on S. rim,
 T 3 S in N.,
 T 4 S in S., and
 R 8 W in W. half,
 S 31 in NW.,
 S 32 in NE.,
 S 5 in SE., and
 S 6 in SW. quad.; no trees near. Pits imprac.
 Raise a mound of stone 2-ft. base, 1½ ft. high W. of cor.
 Land, rolling.
 Soil, 2nd rate, sandy, gravelly, loose, dry.
 Greasewood, sage brush, cacti, scrub mesquite.

West, bet. secs. 6 & 31.
 Over rolling land, through scattering brush.
 19.90 Wash, 20 lks. wide, course S.
 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 31 in N., and
 S 6 in S. half, 1914 on S. rim, Pits imprac.
 raise a mound of stone 2 ft. base, 1½ ft. high N. of cor.
 46.98 Old road, brs. N. & S.
 59.00 Wash, 20 lks. wide, course S.
 83.82 Intersect E. bdy. of T. 4 S., R. 9 W., at a point whence
 cor. of Tps. 3 & 4 S., R. 9 W. brs. North, 24.32 chs.
 dist., as established,
 by John F. Hesse as described in Book "B."
 Set an iron post 3 ft. long, 3 ins. in diam. 24 ins. in
 the ground for closing cor. of Tps. 3 & 4 S., R. 8 W.,
 marked on brass cap, 1914 on S. rim,
 C C, W. of centre,
 R 8 W, in E., and
 T 3 S, S 36, T 4 S, S 1, R 9 W, in W. half,
 T 3 S, S 31, in NE., and
 S 6, T 4 S, in SE. quad.; pits impracticable.
 Raise a mound of stone 2 ft. base, 1½ ft. high E. of cor.
 Land, rolling. Soil, 2nd rate, sandy, gravelly, dry.
 Greasewood, cacti, scrub mesquite, paloverde.

General Description.

The N. bdy. of T. 4 S., R. 8 W. runs over a rolling,
 or broken valley, draining S. into the Gila River.
 There is no water nor timber on or near the line, nor
 any indications of settlement. The land is non-mineral,
 soil composed mostly of granite gravel.

Boundaries of T. 4 S., R. 8 W.
 Latitudes, departures, and closing errors.

Line Designated.	True bearing.	Dist. .	Latitudes.		Departures.	
			N. .	S. .	E. .	W. .
		Chs.	Chs.	Chs.	Chs.	Chs.
South Boundary,	West,	483.70	-----	-----	-----	483.70
West Boundary,	North,	479.68	479.68	-----	-----	-----
North Boundary,	East,	483.82	-----	-----	483.82	-----
East Boundary,	South,	480.00	-----	480.00	-----	-----
Convergency,					0.48	-----
			479.68	480.00	484.30	483.70
			479.68	479.68	483.70	-----
			Error in Lat., ----- 0.32			
			Error in Dep., -----		0.60	-----

July 6, 1914.

Jesse B. Wright
 U. S. Surveyor.

CERTIFICATE OF ASSISTANTS.
(Same applies to Book " D ")

We, the undersigned, hereby certify upon honor that we assisted, to the best of our skill and ability, Jesse B. Wright, U. S. Surveyor, during the periods and in the capacities stated opposite our several signatures, in surveying under instructions for Group 32, Ariz., all those parts or portions of the East, West & North bdrs. of T.1 N., R.6 W. & T.3 N., R.10 W., the West & North bdrs. of Ts.1 N., Rs. 7, 8, 9 & 10 W. & Ts.2 N., Rs. 7, 8 & 10 W., the Northbdy. of T.2N., R.9 W., the South, West & North bdrs. of T.3 N., R.11 W., the South & West bdrs. of T.1 S., R.8 W., the East bdy. of T.4 S., R.12 W., & the East & North bdrs. of Ts.4 S., Rs. 8 & 10 W., & in retracing & resurveying all those parts or portions of the West bdy. of T.1 S., R.5 W., the Gila & Salt River Base Line in R. 5 W., & the North bdrs. of Ts.5 S., Rs. 9, 10, 11 & 12 W.

of the Gila & Salt River Base & Meridian, in the State of Arizona, which are represented in the foregoing field notes and those in Book " D " notes as having been executed by him, and under his direction; and that said surveys have been, in all respects, to the best of our knowledge and belief, well and faithfully executed.

NAME.	PERIOD OF SERVICE.		CAPACITY.
	BEGUN.	ENDED.	
<i>Frank J. McSherry</i>	Feb. 5, 1914	July 10, 1914	Chainman.
<i>Red J. Lindsey</i>	"	"	"
<i>Wm. D. Deussen</i>	"	"	Flagman.
<i>Thomas A. Shimfussel</i>	"	May 9, 1914	Axeman.
<i>Everett B. White</i>	May 12, 1914	July 10, 1914	Axeman.
<i>Thomas E. Polley</i>	Feb. 5, 1914	"	Moundman.

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

Jesse B. Wright
U. S. Surveyor.

FINAL OATH OF UNITED STATES SURVEYOR.
(Same applies to Book "D")

I, Jesse B. Wright, 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 and 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 East, West & North bdrs. of T. 1 N., R. 6 W. & T. 3 N., R. 10 W., the West & North bdrs. of Ts. 1 N., Rs. 7, 8, 9 & 10 W. & Ts. 2 N., Rs. 7, 8 & 10 W., the North bdy. of T. 2 N., R. 9 W., the South, West & North bdrs. of T. 3 N., R. 11 W., the South & West bdrs. of T. 1 S., R. 8 W., the East bdy. of T. 4 S., R. 12 W. & the East & North bdrs. of Ts. 4 S., Rs. 8 & 10 W., and Retraced & Resurveyed all those parts or portions of the West bdy. of T. 1 S., R. 5 W., the G. & S. R. Base Line in R. 5 W. & the North bdrs. of Ts. 5 S., Rs. 9, 10, 11 & 12 W. of the Gila & Salt River Base & Meridian, in the State of Arizona, which are represented in the foregoing field notes ^{and those in Book "D"} as having been executed by me, and under my direction; and I do further solemnly swear that all the corners of said surveys, retracements and resurveys have been established or reestablished and perpetuated in strict accordance with the Manual of Surveying Instructions, and the special written instructions of the U. S. Surveyor General for Arizona for Group 32 and in the specific manner described in the field notes, and that the foregoing ^{and notes in Book "D"} are the original field notes of such surveys, retracements & resurveys.

Jesse B. Wright
U. S. Surveyor.

Subscribed by said Jesse B. Wright, and sworn to before me }
this 11th day of September, 1914 }

Frank S. Sigall
SURVEYOR-GENERAL OF ARIZONA



APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Phoenix, Ariz. Aug 21, 1915, 1915.

The foregoing field notes of the survey of the East, West & North bdrs. of T. 1 N., R. 6 W. and T. 3 N., R. 10 W., the West & North bdrs. of Ts. 1 N., Rs. 7, 8, 9 & 10 W. and Ts. 2 N., Rs. 7, 8 & 10 W., the North bdy. of T. 2 N., R. 9 W., the South, West & North bdrs. of T. 3 N., R. 11 W., the South & West bdrs. of T. 1 S., R. 8 W., the East bdy. of T. 4 S., R. 12 W. and the East & North bdrs. of Ts. 4 S., Rs. 8 & 10 W. of the Gila & Salt River Base & Meridian in the State of Arizona.

executed by Jesse B. Wright U.S. Surveyor
under his special instructions dated Oct. 21, 1913 and 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. Sigall
U. S. Surveyor General.
OF ARIZONA.

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