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179

Book "Q"

Subdivisions

BOOK 2782

FIELD NOTES

OF THE SURVEY OF THE

PART OF THE SUBDIVISION LINES OF

AND RESURVEY OF

EAST AND WEST BOUNDARIES OF

TOWNSHIP NO. 15 SOUTH RANGE NO. 30 EAST

Of the Gila and Salt River Base and Meridian,

In the State of Arizona

EXECUTED BY

WILLIAM B. KIMMEL

In the capacity of U. S. Surveyor, under instructions dated December 30, 1913,

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

Group No. 26, which were approved by the Commissioner of the General Land

Office, January 9, 1914, pursuant to authority contained in the Act of

Congress dated August 1, 1914

Survey & Re Survey commenced September 3, 1914

Survey & Re Survey completed October 5, 1914

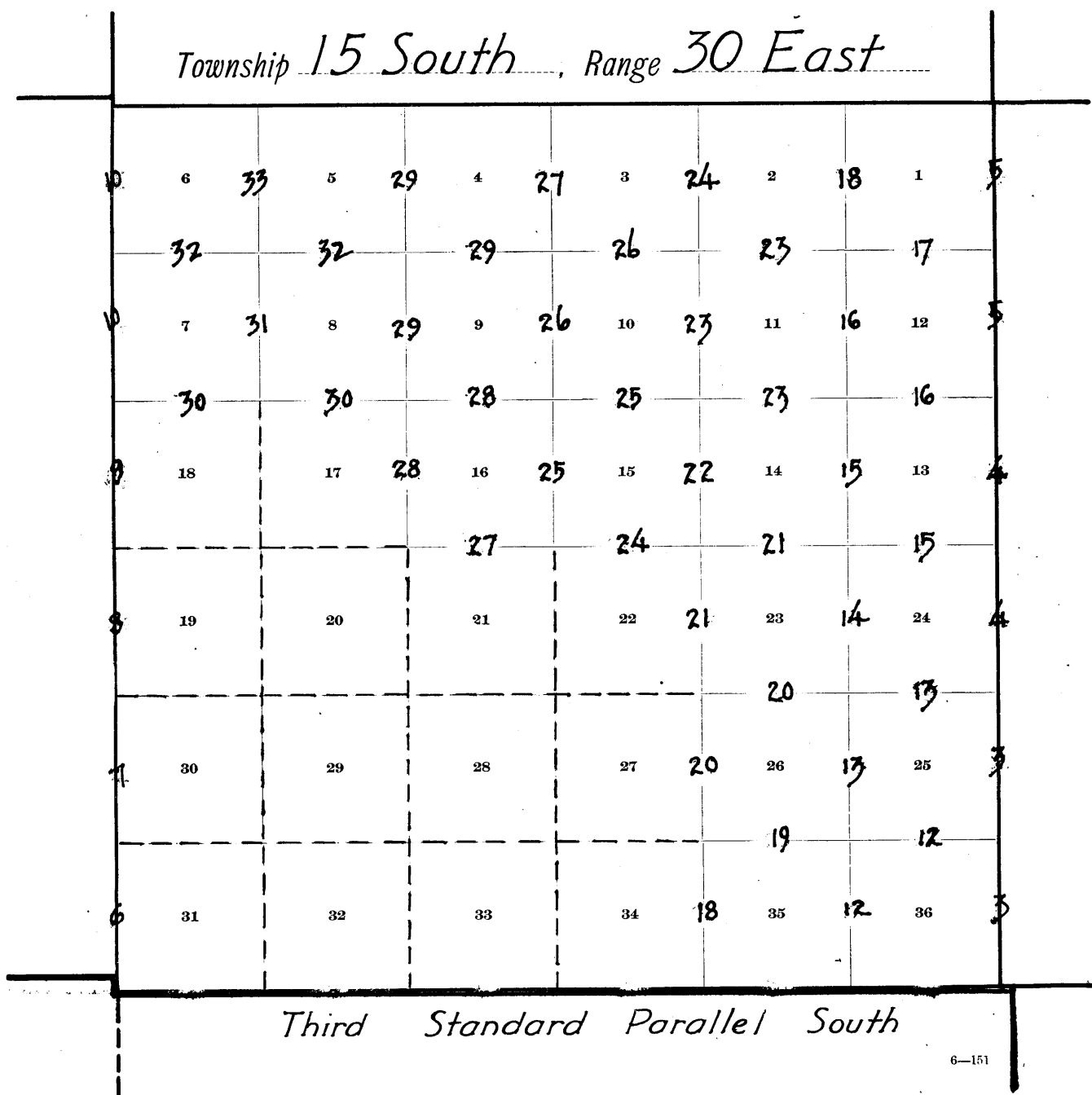
Books No. 2782

Book "Q"

BOOK 2782

INDEX DIAGRAM.

Township 15 South, Range 30 East



Third Standard Parallel South

- Accepted surveys
- - - - - Unsurveyed
- Notes in Book "B".

Retracement of the East bdy. of Township 15 S., R. 30 E.

1. ^B

Chains.

Retracement and resurvey commenced Sept. 3, 1914, and executed with a Young and Sons' light mountain transit No. 8541, to Sept. 8, 1914, after that date, with Young and Sons' light mountain transit No. 8588. As both instruments are alike, see Book "A" for description, Knowing from recent and repeated tests of No. 8541 that it is in correct adjustment,
 I run, from the corner of Ts. 14 and 15 S., Rs. 30 and 31 E., which is an iron post 3 ins. in diam., 12 ins. above ground, with brass cap, marked and witnessed as described by the U.S. Surveyor General (reestablished by John F. Hesse, U.S. Surveyor, May 4, 1913).
 South, on a random line, bet. secs. 1 and 6.
 40.00 No corner found; set temp. $\frac{1}{4}$ sec. cor.
 80.43 Fall 40 lks. west of the point for the original corner of secs. 1, 6, 7 and 12, which I locate $5\frac{1}{2}$ ft. N. 45° W. of a redwood stake 2 ins. sq., 4 ins. above ground, faintly marked in indication of SE. pit.
 True course and dist. of this mile is therefore N. $0^\circ 17'$ W., 80.43 chs.

Sept. 3, 1914.
 Sept. 4, 1914: At 7h. 40m., a.m., 1.m.t., I set off $32^\circ 08\frac{1}{2}'$ N. on the lat. arc; $7^\circ 23'$ N. on the decl. arc; and determine with the solar a meridian at the true point for the original corner of secs. 1, 6, 7 and 12, above described.
 Thence I run, South, on random line, bet. secs. 7 and 12.
 40.00 No cor. found; set temp. $\frac{1}{4}$ sec. cor.
 80.32 Fall 98 lks. west of the original corner of secs. 7, 12, 13 and 18, which is a limestone $6 \times 7 \times 8$ ins., above ground, loosely set, marked 2 notches on N., and 4 notches on S. edges alongside of which was a redwood stake 2 ins. square, 5 ins. above ground, faintly marked.
 True course and distance of this mile is therefore N. $0^\circ 42'$ W., 80.33 chs.

Thence I run,
 South, on a random line, bet. secs. 13 and 18.
 40.00 No corner found; set temp. $\frac{1}{4}$ sec. cor.
 80.00 No corner found; set temp. cor. for secs. 13, 18, 19 and 24. Continue measurement south, on random line, bet. secs. 19 and 24.
 120.00 No corner found; set temp. $\frac{1}{4}$ sec. cor.
 160.98 Fall 163 lks. west of the original cor. of secs. 19, 24, 25 and 30, which is a limestone $4 \times 8 \times 9$ ins., above ground, loosely set, marked 4 notches on N., and 2 notches on S. edges; no pits or mound of stone visible.
 True course and distance of line bet. secs. 13 and 18, and also line bet. secs. 19 and 24 is therefore N. $0^\circ 35'$ W., 80.495 chs.

Thence I run,
 South on random line, bet. secs. 25 and 30.
 40.12 Fall 56 lks. west of the original $\frac{1}{4}$ sec. cor., which is a stone $5 \times 8 \times 9$ ins. above ground, loosely set, marked $\frac{1}{4}$ on west face, with a mound of stone west of same. True course and dist. of N. $\frac{1}{2}$ of line bet. secs. 25 and 30 is therefore N. $0^\circ 48'$ W., 40.12 chs.
 Thence South on a random line, bet. secs. 25 and 30.
 40.06 Fall 43 lks. west of the original cor. of secs. 25, 30, 31 and 36, which is a stone $5 \times 6 \times 8$ ins. above ground, loosely set marked 5 notches on N. edge, and 1 notch on S. edge. No pits or mound of stone visible.
 True course and dist. of S. $\frac{1}{2}$ of line, bet. secs. 25 and 30, is therefore N. $0^\circ 37'$ W., 40.06 chs.

2. Retracement of the East bdy. of Township 15 S. R. 30 E.

Chains.

40.00 Thence I run,
 80.07 South, on a random line, bet. secs. 31 and 36.
 No corner found; set temp. $\frac{1}{4}$ sec. cor.
 Fall 74 lks. west of the original standard cor. of Ts. 15
 S., Rs. 30 and 31 E. on the Third Standard Parallel
 South, which is a stone 8x9x10 ins. above ground,
 marked 6 notches on the E., W. and N. edges, and
 S C on N., with a mound of stone north of corner;
 stone is firmly set under wire fence, bears east and
 west.
 True course and distance of line bet. secs. 31 and 36 is
 therefore N. 0° 32' W., 80.07 chs.
 Sept. 4, 1914.

BOOK 2781

Resurvey of East bdy. of Township 15 S., Range 30 East. 3.

Chains.

Sept. 4, 1914:
 From the original standard corner of T. 15 S., Rs. 30 and 31 E., on Third Standard Parallel South, described above, I run,
 N. 0° 32' W., on a true line, bet. secs. 31 and 36.
 Over rolling land, through dense undergrowth.

16.55 Wash, 20 lks. wide, 2 ft. deep, course NE.
 30.00 Wagon road, brs. NW. and SE.
 34.10 Wash, 20 lks. wide, 2 ft. deep, course east.
 40.035 Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in the ground, for reestablished $\frac{1}{4}$ sec. cor., marked on brass cap,
 1914 on S. rim,
 $\frac{1}{4}$ S 36 on W., and
 S 31 on E. half;
 raise a mound of stone 2 ft. base, 1 $\frac{1}{2}$ ft. high, west of corner. Pits impracticable.

44.70 Old wagon road, brs. NE. and SW.
 48.15 Wash, 10 lks. wide, 18 ins. deep, course NE.
 59.25 Wash, 30 lks. wide, 2 ft. deep, course NE.
 72.30 Wash, 15 lks. wide, 18 ins. deep, course NE.
 80.07 The original cor. of secs. 25, 30, 31 and 36, hereinbefore described, alongside of which I set an iron post 3 ft. long, 3 ins. in diam., 24 ins. in the ground, for reestablished cor. of secs. 25, 30, 31 and 36, marked on brass cap,
 1914 on S. rim,
 T 15 S in N. half;
 R 30 E S 25 in NW.,
 R 31 E S 30 in NE.,
 S 31 in SE., and
 S 36 in SW. quadrant;
 raise a mound of stone 2 ft. base, 1 $\frac{1}{2}$ ft. high, west of corner. Pits impracticable.

Land, rolling.
 Soil, sandy loam, and gumbo, gravelly, 2nd and 3rd rate.
 No timber.
 Undergrowth, dense mesquite, catclaw and greasewood.
 Sept. 4, 1914.

Sept. 23, 1914:
 N. 0° 37' W., on a true line, bet. secs. 25 and 30.
 Over rolling land, through dense undergrowth.

2.00 Wash, 35 lks. wide, 2 ft. deep, course NE.
 22.30 Wash, 60 lks. wide, 2 ft. deep, course NE.
 25.10 Wash, 15 lks. wide, 1 ft. deep, course NE.
 30.50 Wash, 80 lks. wide, 3 ft. deep, course NE.
 38.30 Wash, 20 lks. wide, 1 ft. deep, course NE.
 40.06 The original $\frac{1}{4}$ sec. cor., hereinbefore described, alongside which I set an iron post 3 ft. long, 1 in. in diam., 26 ins. in the ground, for reestablished $\frac{1}{4}$ sec. cor., marked on brass cap,
 1914 on S. rim, $\frac{1}{4}$ S 25 on W., and
 S 30 on E. half; raise a mound of stone
 2 ft. base, 1 $\frac{1}{2}$ ft. high, west of cor. Pits impracticable.

Thence I run,
 N. 0° 48' W., on a true line, N. $\frac{1}{2}$, bet. secs. 25 and 30.

15.10 Wash, 20 lks. wide, 1 ft. deep, course east.
 20.70 Wash, 40 lks. wide, 3 ft. deep, course east.
 27.25 Old wagon road, brs. NW. and SE.
 35.50 Wash, 18 ins. deep, course NE.
 40.12 The original cor. of secs. 19, 24, 25 and 30, hereinbefore described, alongside which I set an iron post 3 ft. long, 3 ins. in diam., 24 ins. in the ground, for reestablished cor. of secs. 19, 24, 25 and 30, marked on brass cap,
 1914 on S. rim,

4. Resurvey of the East bdy. of Township 15 South, Range 30 E.

Chains.

T 15 S in N. half;
 R 30 E S 24 in NW.,
 R 31 E S 19 in NE.,
 S 30 in SE., and
 S 25 in SW. quadrant;

raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high, west of corner. Pits impracticable.

Land, rolling.

Soil, sandy loam and gumbo, gravelly, 2nd and 3rd rate.

Timber, a few scattering cedar.

Undergrowth, dense mesquite, catclaw and greasewood.

Sept. 23, 1914.

Sept. 24, 1914:

N. $0^{\circ}35'$ W., on a true line, on west bdy. of sec. 19, T. 15 S., R. 31 E.

Over rolling, and through dense undergrowth.

9.50 Wash, 90 lks. wide, 3 ft. deep, course NE.

15.00 Wash, course NE.

22.50 Wash, 5 lks. wide, 18 ins. deep, course east.

34.00 Wash, 15 lks. wide, 2 ft. deep, course NE.

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

1914 on S. rim,
 S 24 on W., and
 S 19 on E. half;

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

42.90 Wagon road, brs. NE. and SW.

60.80 Wash, 15 lks. wide, 2 ft. deep, course NE.

63.00 Wagon road, brs. SE. and N.; continue along road.

66.60 Wash, 15 lks. wide, 2 ft. deep, course east.

70.00 Wagon road brs. SW., continue along road.

80.495 Set an iron post 3 ft. long, 3 ins. in diam., 30 ins. in the ground, for reestablished cor. of secs. 18 and 19, T. 15 S., R. 31 E., marked on brass cap,

1914 on S. rim,
 T 15 S in N., and
 R 30 E S 13 S 24 in W. half;
 S 18 in NE., and
 S 19, R 31 E in SE. quadrant;

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

Land, rolling.

Soil, sandy loam and gumbo, gravelly, 2nd and 3rd rate.

No timber.

Undergrowth, dense mesquite, catclaw and greasewood.

N. $0^{\circ}35'$ W., on true line, on west bdy. of sec. 18 T. 15 S., R. 31 E.

Over gently rolling land, along wagon road; dense undergrowth on both sides of road.

40.25 Set an iron post 3 ft. long, 1 in. in diam., 30 ins. in the ground, for reestablished $\frac{1}{4}$ sec. cor., marked on brass cap,

1914 on S. rim,
 S 13 in W., and

$\frac{1}{4}$ S 18 in E. half; raise a mound of stone

2 ft. base, $1\frac{1}{2}$ ft. high, east of cor. Pits impracticable.

80.495 Original cor. of secs. 7, 12, 13 and 18 hereinbefore described, alongside which I set an iron post 3 ft. long, 3 ins. in diam., 30 ins. in the ground, for reestablished cor. of secs. 7 and 18, T. 15 S., R. 31 E., marked on brass

Resurvey of the East bdy. of T15 South, Range 30 East. 5.

Chains.

cap, 1914 on S.rim, T15 S on N., and R 30 E, S 12 S 13 in W.half; S 7 in NE., and S 18, R 31 E in SE.quadrant; raise a mound of stone 2 ft.base, 1 1/2 ft. high, east of corner. Pits impracticable.

Land, gently rolling. Soil, sandy loam, and gumbo, gravelly, 1st to 3rd rate. No timber. Undergrowth, dense mesquite, catclaw, and greasewood on both sides of road. Sept. 24, 1914.

Sept. 25, 1914: N.0° 42' W., on a true line, on west bdy. of sec.7, T.15 S., R.31 E.

40.165

Over gently rolling land, along wagon road; dense undergrowth on both sides of road. Set an iron post 3 ft.long, 1 in. in diam., 30 ins. in the ground, for reestablished 1/4 sec.cor., marked on brass cap,

1914 on S.rim, S 12 on W., and 1/4 S 7 on E.half;

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

40.50

Vacant adobe house brs. N.40°E. about 2 chs.dist. Wagon road, brs.west.

42.00

Wagon road, brs.N.60°W.

80.33

The true point for the original cor. of secs.1,6,7 and 12, hereinbefore described, where I set an iron post 3 ft. long, 3 ins. in diam., 30 ins. in the ground, for the reestablished cor.of secs.6 and 7, T15 S.,R.31 E., marked on brass cap,

1914 on S.rim, T 15 S in N., and R 30 E S 1, S 12 in W.half; S 6 in NE., and S 7, R 31 E in SE.quadrant;

raise a mound of stone 2 ft.base, 1 1/2 ft. high, east of corner. Pits impracticable.

Land, gently rolling. Soil, sandy loam and gumbo, gravelly, 1st and 2nd rate. No timber.

Undergrowth, dense mesquite, catclaw, and greasewood on both sides of road.

N.0°17' W., on true line, bet.secs.1 and 6. Over rolling land, along wagon road; dense undergrowth on both sides of road.

16.30

Wash, 12 lks.wide, 2 ft.deep, course NE.

27.90

Wash, 15 lks.wide, 3 ft.deep, course E.

33.00

Wash, 45 lks.wide, 6 ft.deep, course NE.

40.215

Set an iron post, 3 ft.long, 1 in.in diam., 30 ins.in the ground, for reestab. 1/4 sec.cor., marked on brass cap, 1914 on S.rim, S 1 on W., and 1/4 S 6 on E.half; raise a mound of stone 2 ft.base 1 1/2 ft.high, E.of cor.

Pits impracticable.

52.70

Wash, 15 lks.wide, 2 ft.deep, course NE.

59.10

Wash, 12 lks.wide, 1 ft.deep, course NE.

63.10

Wash, 15 lks.wide, 18 ins.deep, course NE.

66.50

Wash, 15 lks.wide, 2 ft.deep, course NE.

75.80

Wash, 10 lks.wide, 2 ft.deep, course NE.

80.43

The cor.of Ts.14 and 15 S.,Rs.30 and 31 E., an iron post 3 ins.in diam., 12 ins.above ground, with brass cap, marked and witnessed as described by Surveyor General.

6. Resurvey of the East bdy. of Township 15 South, Range 30 E.

Chains.

Land, rolling.
Soil, sandy loam and gumbo, gravelly; 2nd and 3rd rate.
No timber.
Undergrowth, dense mesquite, catclaw, and greasewood on both sides of road.

Sept. 25, 1914.

Resurvey of West bdy. of Township 15 South, Range 30 East.

Note: The survey of this bdy. by John F. Hesse, May 2, 1913, under instructions for Group 18, being unaccepted at this time, I re-mark and move all corners set by him south the proper dist., so as to throw all excess dist. to the north end of line, and thus rectify a great error in alignment in the 3rd. Standard Parallel S. in Rs. 29 and 30 E.

Sept. 17, 1914: At 8h. a.m., l.m.t., I set off $32^{\circ} 4' N.$ on the lat. arc; $2^{\circ} 27' N.$ on the decl. arc; and determine a meridian with the solar at the SW. cor. of T. 15 S., R. 30 E. on Third Standard Parallel South, re-established by me, as described in Book "B."

Thence I run,

North, on the west bdy. of sec. 31.

Ascend south slope, through scattering timber and dense undergrowth.

3.75 Spur slopes east, 55 ft. above cor., descend north slope.

7.70 Head of draw, course NE.

17.75 R. R. Taylor's house, brs. S. $79^{\circ} E.$, about 5 chs. dist.

19.55 Wagon road, brs. E. and W.

22.95 Gulch, course NE., 425 ft. below spur; ascend east slope.

25.75 Gulch, course east; ascend SE. slope.

34.80 Draw, course SE.

40.00 Set an iron post 3 ft. long, 1 in. in diam., 3 ins. in the ground, on bed rock, supported by a mound of stone, for reestablished $\frac{1}{4}$ sec. cor. to sec. 31, marked on brass cap,

1914 on S. rim,

S 36 on W., and

 $\frac{1}{4}$ S 31 on E. half; from which,An oak, 9 ins. in diam., brs. N. $67\frac{1}{2}^{\circ} E.$, 53 lks. dist., marked $\frac{1}{4}$ S 31 B T.A pine, 8 ins. in diam., brs. S. $60^{\circ} E.$, 23 lks. dist., marked $\frac{1}{4}$ S 31 B T.

42.00 Spur slopes east, 240 ft. above 22.95 ch. point; descend north slope.

50.35 Gulch, course NE., 220 ft. below spur; ascend SE. slope.

57.10 Top of ascent, 70 ft. above gulch.

Sept. 17, 1914: At this point I lay off $2^{\circ} 22\frac{1}{2}' N.$ on the decl. arc, and at apparent noon, observe the sun on the meridian; the resulting lat. is $32^{\circ} 04\frac{1}{2}' N.$

61.40 Draw, course SE., 30 ft. below 57.10 ch. point; ascend SE. slope.

64.70 Draw, course SE.

66.65 Draw, course SE.

70.00 Spur, slopes east 130 ft. above 61.40 ch. point; descend NE. slope.

79.15 Gulch, course NE., 110 ft. below spur; ascend E. slope.

80.00 Set an iron post 3 ft. long, 3 ins. in diam., 20 ins. in the ground, on bedrock, supported by a mound of stone, for the reestablished cor. of secs. 30 and 31, marked in brass cap,

1914 in S. rim,

T 15 S in N., and

S 25, S 36, R 29 E in W. half;

S 30 in NE., and

S 31 in SE. quadrant; from which,

Resurvey of the West bdy. of Township 15 South, Range 30 E. 7.

Chains.

An oak, 10 ins. in diam., brs. N. 19 1/2° E., 65 lks. dist., marked T 15 S R 30 E S 30 B T.
An oak, 5 ins. in diam., brs. S. 5° E., 23 lks. dist., marked T 15 S R 30 E S 31 B T.

Land, mountainous.
Soil, rocky, igneous formation and lime formation, 4th rate.
Timber, scattering pine, oak and juniper.
Undergrowth, dense scrub oak, mesquite and catclaw.

3.15
12.90
14.60

North, on west bdy. of sec. 30.
Ascend east slope, through scattering timber and dense undergrowth.
Draw, course SE.; ascend south slope.
Spur slopes east, 330 ft. above cor.; descend NE. slope.
Point for stadia, across cliffy canyon, course SE., about 350 ft. deep, 20 ft. below spur.

Sept. 17, 1914.

30.71
32.50
38.75
40.00

Sept. 18, 1914.
Rod reading 8,531 ft., ratio 1 ft. = 2.00 chs., focal constant 1.025 ft., vertical angle +13° 46'; therefore the distance is 8.531 x 2 x .9434 plus .016 = 16.11 chs., which added to 14.60 chs. makes 30.71 chs.
Rod point, 260 ft. above 14.60 ch. point; ascend SE. slope.
Ascend east slope.
Head of draw, course SE.; ascend rocky SE. slope.
Set an iron post 3 ft. long, 1 in. in diam., 6 ins. in the ground, on bed rock, supported by a mound of stone for reestablished 1/4 sec. cor. to sec. 30, marked on brass cap,

1914 on S. rim,
S 25 on W., and
1/4 S 30 on E. half; from which,
A mahogany, 6 ins. in diam., brs. S. 82° E., 70 lks. dist., marked 1/4 S 30 B T.
An oak, 5 ins. in diam., brs. N. 59 1/2° E., 103 lks. dist., marked 1/4 S 30 B T.

Sept. 18, 1914.

55.00
61.15
65.30
71.90
74.88

Sept. 20, 1914:
Note: At 8h. a.m., 1.m.t., I set off 32° 5 1/2' N. on the lat. arc; 1° 17 1/2' N. on the decl. arc; and determine a meridian with the solar at this 1/4 sec. cor.
Spur ridge, slopes east, 765 ft. above 30.71 ch. point; descend NE. slope.
Gulch, course NE., 200 ft. below spur; ascend east slope.
Top of ascent, 30 ft. above gulch; descend NE. slope.
Draw, course NE.
Point for stadia, 180 ft. below 65.30 ch. point, stadia down cliffy NE. slope, rod reading 3.025 ft., ratio 1 ft. = 2.00 chs., focal constant 1.025 ft., angle of depression -21° 52', the distance is therefore 3.025 x 2 x .8613 plus .016 = 5.22 chs., which added to 74.88 chs. makes 80.10 chs.

80.10
80.00

Rod point, 145 ft. below 74.88 ch. point; thence S. 10 lks.
Set an iron post 3 ft. long, 3 ins. in diam., 12 ins. in the ground, on bed rock, supported by a mound of stone for reestablished cor. of secs. 19 and 30, marked on brass cap,

1914 on S. rim,
T 15 S in N., and
S 24 S 25 R 29 E in W. half;
S 19 in NE., and
S 30 in SE. quadrant; from which,
An oak, 8 ins. in diam., brs. N. 3 1/2° E., 99 lks. dist., marked T 15 S R 30 E S 19 B T.

8. Resurvey of West bdy. of Township 15 South, Range 30 East.

Chains.

A pine, 8 ins. in diam., brs. S. $52\frac{1}{4}^{\circ}$ E., 75
lks. dist., marked T 15 S R 30 E S 30 B T.

Land, mountainous.

Soil, rocky, granite formation, 4th rate.

Timber, scattering pine, oak, cedar and juniper.

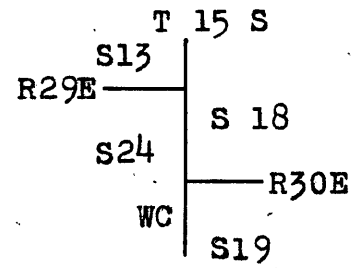
Undergrowth, dense scrub oak, mahogany, manzanita, mesquite
& catclaw.-----
North on west bdy. of sec. 19,Along cliffy east slope, through scattering timber and
dense undergrowth.

- .10 Point for stadia: Note: Sept. 20, 1914. At this point
I set off $1^{\circ}13'$ N. on the decl. arc, and at apparent
noon, observe the sun on the meridian; the resulting
latitude is $32^{\circ}6'$ N. Stadia across rocky cliffy E.
slope, rod reading 2.188 ft., ratio 1 ft. = 2.00 chs.,
focal constant, 1.025 ft., angle of depression $4^{\circ}52'$; the
distance is therefore $2.188 \times 2 \times .9928$ plus $.016 =$
4.36 chs., which added to .10 chs., makes 4.46 chs.
- 4.46 Rod point, point for stadia, across cliffy gulch, course
NE., 300 ft. deep; this stadia point is 25 ft. below
sec. cor., rod reading 9.633 ft., ratio 1 ft. = 2.00
chs., focal constant, 1.025 ft., angle of depression
 $-6^{\circ}56'$; the distance is therefore $9.633 \times 2 \times .9854$
plus $.016 = 19.00$ chs., which added to 4.46 chs., makes
23.46 chs.
- 23.46 Rod point on spur, slopes east, 155 ft. below 4.46 ch. point,
point for stadia, across box canyon, course east, 200 ft.
deep, rod reading 6.224 ft., ratio 1 ft. = 2.00 chs. level;
the distance is therefore 6.224×2 plus $.016 = 12.46$ chs.,
which added to 23.46 chs., makes 35.92 chs.
- 35.92 Rod point on spur, slopes SE. Point for stadia, across
head of box canyon, course SE., 80 ft. deep, rod
reading 2.481 ft., ratio, 1 ft. = 2.00 chs., focal con-
stant, 1.025 ft., vertical angle $23^{\circ}10'$; the distance
is therefore $2.481 \times 2 \times .8452$ plus $.016 = 4.21$ chs.,
which added to 35.92 chs. makes 40.13 chs.
- 40.13 Rod point, thence south 13 lks. to
- 40.00 Set an iron post 3 ft. long, 1 in. in diam., 22 ins. in
the ground, on bed rock, supported by a mound of stone
100 ft. above 35.92 ch. point for reestablished $\frac{1}{4}$
sec. cor. to sec 19 marked on brass cap,
1914 on S. rim,
S 24 on W., and
 $\frac{1}{4}$ S 19 on E. half; from which,
An oak, 5 ins. in diam., brs. N. $75\frac{1}{2}^{\circ}$ E., 19
lks. dist., marked $\frac{1}{4}$ S 19 B T.
An oak, 6 ins. in diam., brs. S $52\frac{1}{4}^{\circ}$ E., 60 lks.
marked $\frac{1}{4}$ S 19 B T.
- Sept. 20, 1914.
Sept. 21, 1914. Note: At 8h. 10m., a.m. l.m.t., I set
off $32^{\circ}6\frac{1}{2}'$ N. on the lat. arc. $0^{\circ}54'$ N. on the decl.
arc; and determine with a solar a meridian at this
 $\frac{1}{4}$ sec. cor.
- Ascend south slope.
- 55.75 Spur slopes SE., 635 ft. above $\frac{1}{4}$ sec. cor.; descend E. slope.
- 61.75 Head of a canyon, course SE., 60 ft. below spur; ascend
SE. slope.
- 77.50 Spur ridge, slopes east, 540 ft. above 61.75 ch. point;
descend N. slope.
- 79.60 Top of broken cliffs, 75 ft. high, brs. E. and W.; impossible
to set cor. at true point; thence S. 10 lks.
- 79.50 40 ft. below spur ridge, set an iron post, 3 ft. long, 3
ins. in diam., 14 ins. in the ground on bed rock, supe-
ported by a mound of stone, for witness cor. to rees-
tablished cor. of secs. 18 and 19, marked on brass cap,
1914 on S. rim,

Resurvey of West bdy. of Township 15 South, Range 30 E. 9.

Chains.

and as shown below:



raise a mound of stone 2 ft. base, 1 1/2 ft. high, east of cor. Trees below cliff, within limits, but not available. Pits impracticable.

Land, mountainous.

Soil, rocky, granite formation, 4th rate.

Timber, scattering pine, oak, cedar and juniper.

Undergrowth dense scrub oak, manzanita, mahogany, mesquite and catclaw.

North on west bdy. of sec. 18, by stadia as follows:

From the witness cor. to reestablished cor. of secs. 18 and 19, 50 lks. south of true cor. point, across rocky canyon, course east, 150 ft. deep, scattering timber and dense undergrowth.

Stadia rod reading 11.532 ft., ratio 1 ft. = 2.00 chs., focal constant 1.025 ft., vertical angle +8°40'; therefore the distance is 11.532 x 2 x .9773 plus .016 = 22.55 chs.

22.05 Rod point (22.55 chs. - 0.50 chs.) continue measurement by chain.

22.30 Ridge brs. E. and W., 110 ft. above witness cor. Note: Sept. 21, 1914: At this point I set off 0°49 1/2' N. on the decl. arc; and at apparant noon, observe the sun on the meridian; the resulting lat. is 32°7' N.

30.00 Descend N. slope.

40.00 Descend NE. slope.

Set an iron post 3 ft. long, 1 in. in diam., 14 ins. in the ground, on bedrock, supported by a mound of stone for reestablished 1/4 sec. cor. to sec. 18, marked on brass cap,

1914 on S. rim; S 13 on W., and 1/4 S 18 on E. half; raise a mound of stone 2 ft. base, 1 1/2 ft. high, east of cor. Pits impracticable.

47.00 Descend east slope.

56.00 Descend NE. slope.

60.00 Spur slopes NE.; descend NW. slope.

68.00 Descend N. slope.

74.00 Descend W. slope.

80.00 1630 ft. below 22.30 chs. point, set an iron post 3 ft. long, 3 ins. in diam., 24 ins. in the ground, for reestablished cor. of secs. 7 and 18, marked on brass cap,

1914 on S. rim, T 15 S in N., and S 12, S 13 R 29 E in W. half; S 7 in NE., and S 18 in SE. quadrant;

raise a mound of stone 2 ft. base, 1 1/2 ft. high, east of cor. Pits impracticable.

Land, mountainous.

Soil, rocky, granite formation.

Timber, scattering pine, oak, cedar and juniper.

Undergrowth, dense scrub oak, manzanita, mahogany, mesquite and catclaw.

Sept. 21 and Oct. 6, 1914.

10. Resurvey of Westshdy, of Township 15 S., R. 30 E.

Chains.

Sept. 21, 1914:
 North on west bdy, of sec. 7.
 Descend west slope, through scattering timber and dense undergrowth.

3.50 Descend NW slope.
 7.00 Gulch, course NE., 150 ft. below cor.; ascend S. slope.
 25.30 Ridge, brs. NE and SW., 350 ft. above gulch; descend NW slope.
 39.00 Top of spur ridge, slopes N., from SE.; thence descend spur.
 40.00 Set an iron post, 3 ft. long, 1 in. in diam., 4 ins. in the ground, on bedrock, supported by a mound of stone for reestablished $\frac{1}{4}$ sec. cor. to sec. 7, marked on brass cap,
 1914 on S. rim,
 S 12 in W., and
 $\frac{1}{4}$ S 7 in E. half;
 raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high, east of cor. Pits impracticable.
 48.00 Leave spur slopes NE.; descend NW. slope.
 69.65 Gulch, course NW., 740 ft. below 25.30 chs. point; ascend S. slope.
 77.65 Spur, slopes NW., 125 ft. above gulch; descend NW. slope.
 80.00 50 ft. below spur, set an iron post, 3 ft. long, 3 ins. in diam., 10 ins. in the ground, on bed rock, supported by a mound of stone, for reestablished cor. of secs. 6 and 7, marked on brass cap,
 1914 on S. rim,
 T 15 S in N., and
 S 1, S 12, R 29 E in W. half;
 S 6 in NE., and
 S 7 in SE. quadrant; from which,
 A cedar, 6 ins. in diam., brs. N. 20° E., 157 lks. dist., marked T 15 S R 30 E S 6 B T.
 A cedar, 8 ins. in diam., brs. S. $10\frac{1}{4}^{\circ}$ E., 122 lks. dist., marked T 15 S R 30 E S 7 B T.

Land, mountainous.
 Soil, rocky, granite formation, 4th rate.
 Timber, scattering oak, cedar and juniper.
 Undergrowth, dense scrub oak, mesquite and catclaw.
 Sept. 21 and Oct. 6, 1914.

Sept. 21, 1914:
 North on the west bdy. of sec. 6.
 Descend NW. slope, through scattering timber and undergrowth.

6.50 Descend N. slope.
 36.50 Draw, course NE.; foot of mountain, brs. NE and SW., 455 ft. below cor.; continue over rolling land, slopes NE.
 40.00 Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in the ground, for reestablished $\frac{1}{4}$ sec. cor. to sec. 6, marked on brass cap,
 1914 on S. rim;
 S 1 in W., and
 $\frac{1}{4}$ S 6 on E. half;
 raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high, east of corner. Pits impracticable.
 49.80 Wash, 20 lks. wide, 2 ft. deep, course NE.
 58.00 Wagon road, brs. E. and W.
 81.74 The cor. of Ts. 14 and 15 S., R. 30 E., which is an iron post 3 ins. in diam., 12 ins. above ground, with brass cap, marked and witnessed as described by the Surveyor General, (established by John F. Hesse, U.S. Surveyor, May 4, 1913).

Land, mountainous and rolling.
 Soil, on mountain, rocky, granite formation, 4th rate.
 Balance, sandy loam, gumbo, rocky, and gravelly, 2nd to 4th rate.

Resurvey of the West bdy. of Township 15 South, Range 30 E. 11.

Chains.

Timber, on mountain, scattering oak, cedar and juniper.
Undergrowth, scattering scrub oak, mesquite and catclaw.
Sept. 21, and Oct. 6, 1914.

Boundaries of Township 15 South, Range 30 East.
Latitudes, departures, and closing errors.

Line designated.	True course.	Dist.	Latitudes.		Departures.	
			N.	S.	E.	W.
West bdy..	North,	481.74	481.74			
North bdy..	East,	479.90			479.90	
East bdy.	S. 0° 17' E.	80.43		80.43	.40	
	S. 0° 42' E.	80.33		80.33	.98	
	S. 0° 35' E.	160.99		160.98	1.63	
	S. 0° 48' E.	40.12		40.12	.56	
	S. 0° 37' E.	40.06		40.06	.43	
	S. 0° 32' E.	80.07		80.07	.74	
S. bdy. (3rd. Std. Par. S)	West,	485.50				485.50
Convergency					.46	
Totals, -----			481.74	481.99	485.10	485.50
				<u>481.74</u>		<u>485.10</u>
Error in latitude, -----				0.25		
Error in departure, -----						0.40

12. Partial Subdivisions of Township 15 South, Range 30 East.

Chains.

Survey commenced Sept. 23, 1914, and executed with a Young and Sons' light mountain transit No. 8588, for description and tests of instrument, see Book "A."

At 7h. 45m., a.m., l.m.t., set off $32^{\circ}4'$ N. on the lat. arc; $0^{\circ}7'$ N. on the decl. arc, and determine with the solar a meridian at the reestablished Stand. cor. of secs. 35 and 36, on south bdy. of Tp. (3rd. Standard Parallel South) described in Book "B."

Thence I run,
 $N.0^{\circ}3'$ E., bet. secs. 35 and 36.
 Over rolling land, through dense undergrowth.

.57 Wire fence brs. N. $70^{\circ}W.$, and S. $70^{\circ}E.$
 2.70 Wash, course NE., 15 lks. wide, 4 ft. deep.
 16.55 Wash, 20 lks. wide, 18 ins. deep, course NE.
 20.65 Wash, 15 lks. wide, 2 ft. deep, 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,
 1914 on S' rim,
 $\frac{1}{4}$ S 35 on W., and
 S 36 on E. half;
 raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high, west of cor. Pits impracticable.

43.25 Wash, 15 lks. wide, 2 ft. deep, course NE.
 44.00 Wash, 15 lks. wide, 1 ft. deep, course E.
 48.60 Wash, 35 lks. wide, 2 ft. deep, course E.
 52.35 Wagon road, brs. NW. and SE.
 63.86 Wash, 30 lks. wide, 1 ft. deep, course NE.
 65.20 Wash, 25 lks. wide, 3 ft. deep, course E.
 74.00 Wash, 15 lks. wide, 3 ft. deep, course NE.
 79.60 Wash, 10 lks. wide, 1 ft. deep, course E.
 80.00 Set an iron post, 3 ft. long, 2 ins. in diam., 24 ins. in the ground, for the cor. of secs. 25, 26, 35 and 36, marked on brass cap,
 1914 on S' rim,
 T 15 S S 26 in NW.,
 R 30 E S 25 in NE.,
 S 36 in SE., and
 S 35 in SW. quadrant;
 raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high, west of cor. Pits impracticable.

Land, rolling.
 Soil, sandy loam, and gumbo, gravelly, stony, 3rd and 4th rate.
 No timber.
 Undergrowth, dense mesquite and catclaw.

40.00 East, on a random line, bet. secs. 25 and 36.
 Set temp. $\frac{1}{4}$ sec. cor.
 84.54 Intersect the E. bdy. of the township, 12 lks. S. of the cor. of secs. 25, 30, 31 and 36, reestablished by me, as hereinbefore described.

Thence I run,
 $S.89^{\circ}55'$ W., on a true line, bet. secs. 25 and 36.
 Over rolling land, through dense undergrowth.

1.10 Wash, 12 lks. wide, 18 ins. deep, course NE.
 15.70 Wash, 20 lks. wide, 2 ft. deep, course NE.
 18.40 Wash, 15 lks. wide, 30 ins. deep, course NE.
 24.70 Wash, 15 lks. wide, 2 ft. deep, course NE.
 32.00 Wash, 50 lks. wide, 2 ft. deep, course NE.
 35.90 Wash, 25 lks. wide, 2 ft. deep, course NE.
 44.54 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 25 on N., and
 S 36 on S. half;
 dig pits 18x18x12 ins., E. and W. of post, 3 ft. dist., and raise a mound of earth $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high, north of cor.

70.90 Wash, 15 lks. wide, 18 ins. deep, course NE.

Partial S. division of Township 15 South, Range 30 East. 13.

Chains.

77.90 Wash, 15 lks.wide. 2 ft. deep, course NE.
 84.54 The cor.of secs.25,26,35 and 36.
 Note: Sept.23, 1914, At this cor., I set off 0°31'N.on;
 the decl.arc; and at apparent noon, observe the sun
 on the meridian; the resulting lat.is 32° 5'N.
 Land, rolling.
 Soil, sandy loam and gumbo, rocky and gravelly, 2nd and
 4th rate.
 No timber.
 Undergrowth, dense mesquite and catclaw.

N. 0°3' E., bet. secs. 25 and 26.
 Over rolling land, through dense undergrowth.
 13.45 Wash, 10 lks.wide, 1 ft. deep, course NE.
 22.00 Wash, 50 lks.wide, 3 ft. deep, course east.
 25.15 Wash, 15 lks.wide, 18 ins. deep, course east.
 29.15 Wash, 15 lks.wide, 2 feet. deep, course NE.
 30.40 Wagon road, brs.E. and W.; foot of ridge brs. E. and W. ;
 ascend south slope.
 36.45 Spur ridge, slopes east, 75 ft. above road; descend N.
 slope.
 40.00 Set an iron post 3 ft.long, 1 in. in diam., 6 ins. in
 the ground, on bed rock, supported by a mound of
 stone for $\frac{1}{4}$ sec.cor., marked on brass cap,
 1914 on S.rim,
 $\frac{1}{4}$ S 26 on W., and
 S 25 on E.half;
 raise a mound of stone 2 ft.base, 1 $\frac{1}{2}$ ft. high, west
 of cor. Pits impracticable.
 41.55 Wash, 45 lks.wide, 2 ft.deep, course east; foot of spur
 65 ft. below 36.45 chain point; continue over rolling
 land.
 48.10 Old wagon road, brs.NE. and SW.
 51.50 Wash, course NE., 15 lks.wide, 2 ft. deep.
 58.85 Wash, 8 lks.wide, 1 ft. deep, course SE.
 64.20 Wash, 12 lks.wide, 2 ft. deep, course SE.
 74.60 Wash, 15 lks.wide. 2 ft deep, course NE.
 78.10 Wash, 20 lks.wide, 18 ins. deep, course SE.
 80.00 Set an iron post 3 ft.long, 2 ins. in diam., 24 ins.
 in the ground, for the cor.of secs. 23,24,25 and 26,
 marked on brass cap,
 1914 on S rim,
 T 15 S S 23 in NW.,
 R 30 E S 24 in NE.,
 S 25 in SE., and
 S 26 in SW.quadrant;
 raise a mound of stone 2 ft. base, 1 $\frac{1}{2}$ ft.high, west of
 corner. Pits impracticable.
 Land, rolling and hilly.
 Soil, sandy loam, and gumbo, rocky and gravelly, 2nd to
 4th rate.
 No timber.
 Undergrowth, dense mesquite and catclaw.

N. 89°55' E., on a random line, bet. secs. 24 and 25.
 40.00 Set temp. $\frac{1}{4}$ sec.cor.
 83.40 Intersect the east bdy.of the Tp., 9 lks.south of the cor.
 of secs. 19,24,25 and 30, reestablished by me, as here-
 inbefore described.
 Thence I run,
 S. 89°51' W., on a true line, bet. secs.24 and 25.
 Over rolling land, through dense undergrowth.
 12.30 Wash, 15 lks.wide, 2 ft. deep, course NE.

14. Partial Subdivision of Township 15 South, Range 30 East.

Chains.

13.25 Wagon road, brs.NE. and SW.
 18.20 Wash, 8 lks.wide, 2 ft. deep, course NE.
 29.30 Wash, 10 lks.wide, 1 ft. deep, course NE.
 35.60 Old wagon road, brs.NE and SW.
 43.40 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 24 on N., and S 25 on S.half; raise a mound of stone 2 ft.base, $1\frac{1}{2}$ ft. high, north of cor. Pits impracticable.
 44.26 Wash, 8 lks.wide, 2 ft. deep, course SE.; foot of mountain, brs. NE. and SW.; ascend SE. slope.
 68.40 Spur slopes S., 260 ft., above last wash; descend SW.slope.
 72.40 Draw, course SW.
 80.85 Draw, course SW.; foot of mountain brs.NW. and SE.;125 ft. below spur, continue rolling.
 83.00 Wash, 15 lks.wide, 2 ft. deep,course S.
 83.40 The cor.of secs.23,24,25 and 26.
 Land, rolling and mountainous.
 Soil, sandy loam and gumbo, gravelly and rocky, lime formation, 2nd to 4th rate.
 No timber.
 Undergrowth, dense mesquite and catclaw.
 Sept.23, 1914.

Sept. 24, 1914: At 7h. 30m., a.m.,l.m.t., I set off 32° 6'N. on the lat.arc; 9° 15 $\frac{1}{2}$ 'S.on the decl.arc;and determine a meridian with the solar at the cor.of secs. 23,24,26 and 26.

Thence I run,
 N.0 $^{\circ}$ 3'E., bet. secs. 23 and 24.
 Over rolling land, through dense undergrowth.
 1.05 Wash, 12 lks.wide, 3 ft. deep, course east; foot of mountain brs.E.and W.; ascend SW. slope.
 24.00 Rocky spur ridge, slopes SE., 640 ft. above cor.; descend NE. slope.
 31.25 Draw, course east, 185 ft. below 24 ch. point; ascend E. slope.
 34.25 Spur, slopes east, 10 ft. above draw; descend east slope.
 40.00 Set an iron post, 3 ft. long, 1 in. in diam., 4 ins. in the ground, on bedrock, supported by a mound of stone, for $\frac{1}{4}$ sec.cor., marked on brass cap, 1914 on S rim, $\frac{1}{2}$ S 23 on W., and S 24 on E.half; raise a mound of stone 2 ft.base, $1\frac{1}{2}$ ft. high,west of cor. Pits impracticable.
 42.50 Draw, course SE., 150 ft. below spur; ascend SE.slope.
 47.80 Draw, course SE.
 55.10 Rocky spur, slopes east, 265 ft. above 42.50 ch.point; descend NE. slope.
 68.60 Gulch, course NE., 450 ft. below spur; ascend SE. slope.
 71.60 Draw,course SE.
 73.75 Draw, course SE.
 80.00 90 ft. above gulch, set an iron post, 3 ft.long, 2 ins. in diam., 10 ins. in the ground, on bedrock, supported by a mound of stone, for the cor.of secs-13,14, 23 and 24, marked on brass cap, 1914 on S.rim, T 15 S S 14 in NW., R 30 E S 13 in NE., S 24 in SE., and S 23 in SW.quadrant; raise a mound of stone 2 ft.base, $1\frac{1}{2}$ ft. high,west of corner. Pits impracticable.
 Land, mountainous.
 Soil, rocky, lime formation, 4th rate.
 No timber.
 Undergrowth, dense mesquite and catclaw.

Partial Subdivision of Township 15 South, Range 30 East. 15.

Chains.

Knowing from the resurvey of the east bdy. of this Tp., that a closing corner will be necessary for secs. 13 and 24, I run, East, on a true line, bet. secs. 13 and 24. Descend SE. slope, through scattering undergrowth.

7.00 Draw, course SE.
 33.65 Draw, course NE., 375 ft. below cor., continue rolling slopes S.
 40.00 Set an iron post, 3 ft. long, 1 in. in diam., 14 ins. in the ground, on bedrock, supported by a mound of stone for $\frac{1}{4}$ sec. cor., marked on brass cap, 1914 on S. rim, $\frac{1}{4}$ S 13 on N., and S 24 on S. half; raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high, N. of corner.

Pits impracticable.
 Note: Sept. 24, 1914: At this cor., I set off $0^{\circ}20\frac{1}{2}'$ S. on decl. arc, and at apparent noon, observe the sun on the meridian; the resulting lat. is $32^{\circ}7'$ N.

41.25 Draw, course SE.; ascend SW. slope.
 52.00 Spur slopes south, 40 ft. above draw; descend SE. slope.
 60.00 Wash, 10 lks. wide, 2 ft. deep, abursed NE.; foot of mountain, brs. NE. and SW., 75 ft. below spur; continue over rolling land.
 65.60 Wash, 20 lks. wide, 2 ft. deep, course NE.
 74.35 Wash, 15 lks. wide, 30 ins. deep, course NE.
 82.52 Intersect the east bdy. of the Tp., $S. 0^{\circ} 35' E.$, 84 lks. dist., from the cor. of secs. 18 and 19, T. 15 S., R. 31 E., reestablished by me, as hereinbefore described. At point of intersection, set an iron post 3 ft. long, 2 ins. in diam., 30 ins. in the ground, for closing cor. to secs. 13 and 24, marked on brass cap, 1914 on S. rim, C C E of center, T 15 S in N., and S 18, S 19 R 31 E in E. half; S 13 in NW., and S 24 R 30 E in SW. quadrant; raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high, west of cor. Pits impracticable. Cor. set in road, brs. N. and S.

Land, mountainous and rolling.
 Soil, sandy loam and gumbo, rocky and gravelly; 2nd to 4th rate. Lime formation.
 No timber.
 Undergrowth, scattering, with patches of dense mesquite, catclaw and greasewood.

N. $0^{\circ}3'$ E., bet. secs. 13 and 14. Ascend SE. slope, through scattering undergrowth.

2.50 Spur, slopes SE., 35 ft. above cor.; descend NE. slope.
 14.25 Draw, course SE., 225 ft. below spur; ascend SE. slope.
 17.40 Rocky spur, slopes SE., 40 ft. above draw; descend NE. slope
 26.00 Foot of mountain, brs. NW. and SE., 185 ft. below spur; continue over rolling land.
 33.40 Wash, 18 lks. wide, 2 ft. deep, course SE.
 38.45 Wash, 10 lks. wide, 2 ft. deep, course SE.
 40.00 Set an iron post 3 ft. long, 1 in. in diam., 14 ins. in the ground, on hardpan, supported by a mound of stone, for $\frac{1}{4}$ sec. cor., marked on brass cap, 1914 on S. rim, $\frac{1}{4}$ S 14 on W., and S 13 on E. half; raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high, west of cor. Pits impracticable.

16. Partial Subdivision of Township 15 South Range 30 East.

Chains.

44.40 Wash, 12 lks.wide, 1 ft. deep, course NE.
 52.30 Wash, 50 lks.wide, 6 ft. deep, course SE.
 61.10 Wash, 15 lks.wide, 2 ft. deep, course SE.
 66.00 Wash, 18 lks.wide, 3 ft. deep, course SE.
 68.00 Wash, 25 lks.wide, 2 ft. deep, course SE.
 79.05 Wash, 12 lks.wide, 1 ft. deep, course SE.
 80.00 Set an iron post, 3 ft. long, 2 ins. in diam., 24 ins. in ground, for cor. of secs. 11, 12, 13 and 14, marked on brass cap,

1914 on S.rim,
 T 15 S S 11 in NW.,
 R 30 E S 12 in NE.,
 S 13 in SE., and
 S 14 in SW. quadrant;

raise a mound of stone, 2 ft. base, 1 1/2 ft. high, west of corner. Pits impracticable.

Land, mountainous and rolling.

Soil, rocky, gravelly, sandy loam and gumbo, lime formation, 2nd to 4th rate.

No timber.

Undergrowth, scattering with patches of dense mesquite, catclaw and greasewood.

Sept. 24, 1914.

Sept. 25, 1914: At 7h. a.m., l.m.t., I set off 32° 07 1/2' N. on the lat. arc; 0° 37 1/2' S. on the decl. arc; and determine with the solar a meridian at the cor. of secs. 11, 12, 13 and 14.

Thence I run,

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

Over rolling land, through dense undergrowth.

3.15 Wash, 10 lks.wide, 18 ins. deep, course NE.

11.45 Wash, 10 lks.wide, 1 ft. deep, course N.

34.20 Wash, 8 lks.wide, 2 ft. deep, course NE.

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,

1914 on S.rim, 1/4 S 12 on N., and
 S 13 on S. half;

raise a mound of stone 2 ft. base, 1 1/2 ft. high, north of corner. Pits impracticable.

52.25 Wash, 60 lks.wide, 1 ft. deep, course NE.

61.05 Wash, 20 lks.wide, 1 ft. deep, course NE.

81.53 Intersect the east bdy. of the Tp., S. 0° 35' E., 124 lks. dist. from the cor. of secs. 7 and 18, T. 15 S., R. 31 E., reestablished by me, as hereinbefore described; at point of intersection, set an iron post 3 ft. long, 2 ins. in diam., 30 ins. in the ground, for closing corner of secs. 12 and 13, marked on brass cap,

1914 on S.rim,
 C C E. of center,
 T 15 S in N., and
 S 7, S 18 R 31 E in E. half;
 S 12 in NW., and
 S 13, R 30 E in SW. quadrant;

raise a mound of stone 2 ft. base, 1 1/2 ft. high, west of corner. Pits impracticable. Corner set in wagon road, brs. N. and S.

Land, rolling.

Soil, sandy loam and gumbo, gravelly, 1st to 3rd rate.

No timber.

Undergrowth, dense mesquite, catclaw and greasewood.

N. 0° 3' E., bet. secs. 11 and 12.

Over rolling land, through dense undergrowth.

1.75 Wash, 15 lks.wide, 2 ft. deep, course E.

Partial Subdivision of Township 15 South, Range 30 East. 17.

Chains.

9.50 Wash, 80 lks.wide, 3 ft. deep, course NE.
 15.00 Wash, 25 lks.wide, 2 ft. deep, course NE.
 18.40 Wash, 10 lks.wide, 1 ft. deep, course E.
 20.15 Wagon road, brs.E. and W.
 26.30 Wash, 12 lks.wide, 1 ft. deep, course NE.
 34.60 Wash, 20 lks.wide, 2 ft. deep, 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,
 1914 on S.rim,
 $\frac{1}{4}$ S 11 on W., and
 S 12 on E.half;
 raise a mound of stone 2 ft.base, $1\frac{1}{2}$ ft. high, west of
 corner. Pits impracticable.

45.10 Wash, 9 lks.wide, 1 ft. deep, course NE.
 50.00 Wash, 60 lks.wide, 5 ft. deep, course east.
 54.53 Wash, 30 lks.wide, 2 ft. deep, course east.
 55.10 Wash, 40 lks.wide, 2 ft. deep, course east.
 59.35 Wash, 25 lks.wide, 1 ft. deep, course SE.
 62.25 Wash, 12 lks.wide, 18 ins. deep, course E.
 70.35 Wagon road brs.E.and W.
 70.60 Wash, 18 lks.wide, 2 ft. deep, course NE.
 79.20 Wash, 20 lks.wide, 2 ft. deep, course NE.
 80.00 Set an iron post, 3 ft.long 2 ins. in diam., 24 ins. in
 the ground, for the cor.of secs. 1,2,11 and 12, marked
 on brass cap,
 1914 on S.rim,
 T 15 S S 2 in NW.,
 R 30 E S 1 in NE.,
 S 12 in SE., and
 S 11 in SW. quadrant;
 raise a mound of stone 2 ft.base, $1\frac{1}{2}$ ft. high, W.of
 cor. Pits impracticable.

Land, rolling.
 Soil, sandy loam and gumbo, gravelly, 2nd and 3rd rate.
 No timber.
 Undergrowth, dense mesquite, catclaw and greasewood.

East, on a true line, bet. secs.1 and 12.
 Over rolling land, through dense undergrowth.

.50 Wash, 30 lks.wide, 2 ft. deep, 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,
 1914 on S. rim,
 $\frac{1}{4}$ S 1 on N., and
 S 12 on S.half;
 dig pits 18x18x12 ins., E.and W.of post, 3 ft. dist.,
 and raise a mound of earth $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high,
 north of cor.

70.80 Wash, 10 lks.wide, 1 ft. deep, course NE.
 80.68 Intersect the E. bdy.of the Tp., S.0°42'E, 156 lks.dist.,
 from the cor.of secs.6 and 7, T.15 S., R.31 E., reestab-
 lished by me, as hereinbefore described.
 At point of intersection, set an iron post, 3 ft. long, 2
 ins. in diam., 30 ins. in the ground, for closing cor.
 of secs. 1 and 12, marked on brass cap,
 1914 on S.rim,
 C C E of center,
 T 15 S in N., and
 S 6 S 7 R 31 E in E.half;
 S 1 in NW., and
 S 12 R 30 E in SW.quadrant; raise a mound
 of stone 2 ft.base, $1\frac{1}{2}$ ft.high,west of cor. Pits im-
 practicable. Cor. set in wagon road, brs.N.and S.

Land, rolling.
 Soil, sandy loam and gumbo, gravelly, 1st to 3rd rate.
 No timber.
 Undergrowth, dense mesquite, catclaw and greasewood.

18. Partial Subdivision of Township 15 South, Range 30 East

Chains.

Sept. 25, 1914.

Note: At the cor. of secs. 1, 2, 11 and 12, I set off 0°44' S. on the decl. arc; and at appanant noon, observe the sun on the meridian; the resulting latitude is 32° 8½' N.

Thence I run,

N. 0°3' E., on a random line, bet. secs. 1 and 2.

40.00 Set temp. ¼ sec. cor.

81.82 Intersect the north bdy. of the Tp., 21 lks. east of the cor. of secs. 1, 2, 35 and 36, which is an iron post 3 ins. in diam., 12 ins. above ground, with brass cap, marked and witnessed as described by the Surveyor General.

Thence I run,

S. 0°6' E., on a true line, bet. secs. 1 and 2.

Over rolling land, through dense undergrowth.

5.90 Wash, 18 lks. wide, 1 ft. deep, course NE.

11.85 Wash, 30 lks. wide, 2 ft. deep, course NE.

17.42 Wash, 15 lks. wide, 2 ft. deep, course NE.

24.30 Wash, 40 lks. wide, 3 ft. deep, course NE.

35.16 Wash, 9 lks. wide, 1 ft. deep, course east.

40.42 Wash, 15 lks. wide, 2 ft. deep, course east.

41.82 Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in the ground, for ¼ sec. cor., marked on brass cap, 1914 on S. rim, ¼ S 2 on W., and S 1 on E. half;

raise a mound of stone, 2 ft. base, 1½ ft. high, west of cor. Pits impracticable.

43.15 Wash, 35 lks. wide, 2 ft. deep, course NE.

46.45 Wash, 20 lks. wide, 4 ft. deep, course NE.

58.20 Wash, 12 lks. wide, 1 ft. deep, course E.

61.25 Wash, 20 lks. wide, 1 ft. deep, course NE.

78.85 Wash, 15 lks. wide, 1 ft. deep, course SE.

81.82 The cor. of secs. 1, 2, 11 and 12.

Land, rolling.

Soil, sandy loam and gumbo, gravelly, 1st and 2nd rate. No timber.

Undergrowth, dense mesquite, catclaw and greasewood. Sept. 25, 1914.

Sept. 26, 1914: At 10h. a.m., l.m.t., I set off 32°4' N. on the lat. arc; 1°5½' S. on the decl. arc; and determine with the solar a meridian at the true point for the standard corner of secs. 34 and 35 on south bdy. of Tp., (3rd. Standard Parallel South) which is 30 lks. south of witness cor. to said corner, established by me, as described in Book "B."

Thence I run,

N. 0°2' E., bet. secs. 34 and 35.

Descend NE. slope, through scattering timber and dense undergrowth.

.30 Witness cor. to standard cor. of secs. 34 and 35.

15.00 Draw, course NE.

21.50 Draw, course NE.

23.00 Draw, course NE.

33.50 Draw, course NE.

40.00 Set an iron post 3 ft. long, 1 in. in diam., 18 ins. in the ground, on bed rock, supported by a mound of stone, for ¼ sec. cor., marked on brass cap,

1914 on S. rim,

¼ S 34 on W., and

S 35 on E. half; from which,

A cedar, 12 ins. in diam., brs. S. 69½° E., 120 lks. dist., marked ¼ S 35 B T.

A juniper 5 ins. in diam., brs. S. 69° W., 287 lks. dist., marked ¼ S 34 B T.

46.00 Foot of mountain, brs. E. and W., 1000 ft. below W C; continue over rolling land.

Partial Subdivision of Township 15 South, Range 30 East. 19.

Chains.	
54.85	Wash, 15 lks. wide, 1 ft. deep, course NE.
58.85	Wash, 45 lks. wide, 1 ft. deep, course NE.
64.00	Wash, 65 lks. wide, 1 ft. deep, course NE.
65.65	Wash, 60 lks. wide, 3 ft. deep, course SE.
74.20	Wash, 110 lks. wide, 3 ft. deep, course NE.
78.25	Wash, 20 lks. wide, 3 ft. deep, course E.
80.00	Set an iron post 3 ft. long, 2 ins. in diam., 24 ins. in the ground, for the cor. of secs. 26, 27, 34 and 35, marked on brass cap,
	1914 on S. rim,
	T 15 S S 27 in NW.,
	R 30 E S 26 in NE.,
	S 35 in SE., and
	S 34 in SW. quadrant; raise a mound of stone
	2 ft. base, 1½ ft. high, W. of cor. Pits impracticable.
	<u>Note:</u> Sept. 26, 1914: At this cor., I set off 1° 8' S. on
	the decl. arc; and at apparant noon, observe the sun on
	the meridian; the resulting lat. is 32° 5' N.
	Land, rolling and mountainous.
	Soil, rocky, granite formation, 4th rate.
	Timber, scattering pine, oak, cedar and juniper.
	Undergrowth, dense mahogany, manzanita, mesquite, catclaw,
	scrub oak and greasewood.

	East, on a random line, bet. secs. 26 and 35.
40.00	Set temp. ¼ sec. cor.
79.78	Intersect the N. and S. line, 12 lks. S. of the cor. of secs.
	25, 26, 35 and 36.
	Thence I run,
	S. 89° 55' W., on a true line, bet. secs. 26 and 35.
	Over rolling land, through dense undergrowth.
18.85	Wash, 15 lks. wide, 2 ft. deep, course NE.
20.75	Wash, 12 lks. wide, 18 ins. deep, course NE.
32.25	Wagon road brs. NW. and SE.
39.89	Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in
	the ground, for ¼ sec. cor., marked on brass cap,
	1914 on S. rim,
	¼ S 26 on N., and
	S 35 on S. half;
	raise a mound of stone 2 ft. base, 1½ ft. high, north
	of cor. Pits impracticable.
	Ray A. Wright's house brs. N. 59° E.
	Boarding house at Willie Rose Mine, brs. N. 9½° W.
	The upper hoisting frame, Willie Rose Mine, brs. N. 10¼° W.
	The lower hoisting frame, Willie Rose Mine, brs. N. 9° W.
48.40	Wash, 6 lks. wide, 2 ft. deep, course NE.
55.00	Susan Brown's house, brs. S. 35¼° W.
64.10	Wagon road brs. NE. and SW.
64.40	Susan Brown's house, brs. S. ½° W.
	Vacant shack, brs. S. 56° W.
66.80	Wash, 80 lks. wide, 3 ft. deep, course NE.
68.85	Wagon road, brs. NE. and SW.
69.75	Wash, 70 lks. wide, 3 ft. deep, course NE.
78.75	Wagon road, brs. NW. and SE.
79.78	The cor. of secs. 26, 27, 34 and 35, from which
	Vacant shack, bears S. 60¼° E.
	Stone corral, brs. N. 55° W., about 12 chs. dist.
	Land, rolling.
	Soil, sandy loam and gumbo, stony and gravelly, 2nd to
	4th rate.
	No timber.
	Undergrowth, dense mesquite, catclaw and greasewood.

20. Partial Subdivision of Township 15 South, Range 30 East.

Chains	
	N.0°2' E., bet. secs. 26 and 27. Over rolling land, through dense undergrowth.
.15	Wagon road, brs.E.and W.
1.85	Wash, 25 lks.wide, 30 ins. deep, course SE.
2.10	Foot of mountains, brs.E.and W.; ascend SW. slope.
11.50	Spur slopes SW., 205 ft. above wash; descend west slope.
16.00	A point, 25 ft. below spur; ascend SW. slope.
21.00	Top of knoll, on spur ridge, brs.NW. and SE., 70 ft. above 16 chain point; descend NE. slope.
21.50	Ray A. Wright's house, brs.S.69 $\frac{1}{4}$ °E. Willie Rose boarding house, brs.N.81 $\frac{1}{2}$ °E. Upper hoisting frame, Willie Rose Mine, brs. N.73 $\frac{1}{2}$ °E. Lower hoisting frame, Willie Rose Mine, brs. N.69 $\frac{3}{4}$ ° E.
33.00	Gulch, course SE., 270 ft. below knoll; ascend SE.slope.
35.50	Draw, course SE.
40.00	Set an iron post 3 ft. long, 1 in. in diam., 8 ins. in the ground, on bed rock, supported by a mound of stone, for $\frac{1}{4}$ sec.cor., marked on brass cap, 1914 on S.rim, $\frac{1}{4}$ S 27 on W., and S 26 on E.half; raise a mound of stone 2 ft. base, 1 $\frac{1}{2}$ ft. high, west of corner pits impracticable.
	Sept. 26, 1914. Sept. 28, 1914: <u>Note:</u> At 8h.15m. a.m., l.m.t., I set off 32° 5 $\frac{1}{2}$ 'N. on the lat.arc; 1°49 $\frac{1}{2}$ 'S. on the decl. arc; and determine a meridian with the solar at this $\frac{1}{4}$ sec.cor.
45.80	Rocky spur ridge, slopes east, 225 ft. above 33 chain point; descend NE. slope.
63.30	Foot of mountain, brs.NW. and SE. Wagon road brs. NW. and SE.; continue over rolling land, ascending gradually, slopes SE.
64.00	Wash, 200 lks.wide, 10 ft. deep, course SE.
80.00	Set an iron post 3 ft.long, 2 ins. in diam., 24 ins. in the ground for the corner of secs. 22,23, 26 and 27, marked on brass cap, 1914 on S.rim, T 15 S S 22 in NW., R 30 E S 23 in NE., S 26 in SE., and S 27 in SW. quadrant; raise a mound of stone 2 ft. base, 1 $\frac{1}{2}$ ft. high, west of corner. Pits impracticable. Land, mountainous and rolling. Soil, rocky, lime formation, 4th rate. No timber. Undergrowth, dense mesquite and catclaw.
40.00	N. 89° 55' E., on a random line, between secs. 23 and 26. Set temp. $\frac{1}{4}$ sec.cor.
79.80	Intersect the north and south line, 5 lks.south of the corner of secs. 23,24,25 and 26. Thence I run, S.89°53' W., on a true line, bet. secs.23 and 26.

Partial subdivision of T. 15 S., R. 30 E.

Chains

Over rolling land, slopes S., near foot of mountain, through scattering undergrowth.

5.00 Draw, course S.

6.90 Draw, course S.

9.60 Draw, course S.

22.55 Draw, course S.

30.20 Draw, course SE.

39.90 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, $\frac{1}{4}$ S23 on N. and S26 on S. half; raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high, N. of cor., pits impracticable.

52.45 Draw, course SE.

78.75 Draw, course SE.

79.80 The cor. of secs. 22, 23, 26 and 27.
Land, rolling.
Soil, rocky, lime formation, 4th rate.
No timber.
Undergrowth, scattering with patches of dense mesquite and catclaw.

2.00 N. $0^{\circ} 2'$ E., bet. secs. 22 and 23.
Over rolling land, through scattering undergrowth.
Draw, course SE., foot of mountain, bears E. and W., Ascend SW. slope.

30.00 Ascend S. slope.

40.00 Set an iron post 3 ft. long, 1 in. in diam., 8 ins. in the ground, on bed rock, supported by a mound of stone, for $\frac{1}{4}$ sec. cor., marked on brass cap; 1914 on S. rim, $\frac{1}{4}$ S22 on W. and S23 on E. half; from which an oak 4 ins. in diam., bears N. $84\frac{1}{2}^{\circ}$ E., 32 lks. dist., marked $\frac{1}{4}$ S23BT. A cedar 10 ins. in diam., bears S. $60\frac{1}{2}^{\circ}$ W., 55 lks. dist., marked $\frac{1}{4}$ S 22 B T .

45.50 Ridge, bears E. and W.,
Note: Sept. 28, 1914: At this pt. I set off $1^{\circ} 54'$ S. on decl. arc, and at apparent noon, observe the sun on the meridian; the resulting lat. is $32^{\circ} 6\frac{1}{2}'$ N., which is the correct lat.

64.40 Descend N. slope.
Draw, course NW., descend NW. slope.

69.65 Draw, course NW.

80.00 Set an iron post 3 ft. long, 2 ins. in diam., 4 ins. in the ground, on bed rock, supported by a mound of stone, 800 ft. below ridge, for the cor. of secs. 14, 15, 22 and 23, marked on brass cap; 1914 on S. rim, T15S S15 in NW., R30E S14 in NE., S23 in SE. and S22 in SW. quadrant; from which a cedar 6 ins. in diam., bears N. 48° E., 132 lks. dist., marked T 15 S R 30 E S 14 B T . A cedar 5 ins. in diam., bears S. $34\frac{1}{2}^{\circ}$ E., 106 lks. dist., marked T 15 S R 30 E S 23 B T ., no other trees within limits, raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor., pits impracticable.
Land, mountainous.
Soil, rocky, lime formation, 4th rate.
Timber, scattering oak, cedar and juniper.
Undergrowth, scattering with patches of dense scrub oak, mesquite and catclaw.

Sept. 28, 1914.

Sept. 29, 1914; at 7h a.m., l.m.t., I set off $32^{\circ} 7'$ N. on the lat. arc; $2^{\circ} 11'$ S. on the decl. arc; and determine a meridian with the solar at the cor. of secs. 14, 15, 22 and 23, described above.
Thence I run N. $89^{\circ} 53'$ E., on a random line bet. secs. 14 and 23.

22.

Partial subdivision of T. 15 S., R. 30 E.

Chains	
40.00	Set temp. $\frac{1}{4}$ sec. cor.
79.86	Intersect the N. and S. line, 2 lks. S. of the cor. of secs. 13, 14, 23 and 24, Thence I run S. $89^{\circ} 52' W.$, on a true line bet. secs. 14 and 23. Ascend SE. slope, through scattering timber and undergrowth.
8.40	Spur ridge, slopes NE., ascend NE. slope.
19.00	Spur ridge, slopes NE., 540 ft. above cor., descend NW. slope.
28.60	Gulch, course N., 210 ft. below spur, ascend NE. slope.
33.90	Rocky point, slopes N., 165 ft. above gulch, descend W. slope.
39.46	Set an iron post 3 ft. long, 1 in. in diam., 20 ins. in the ground, on bed rock, supported by a mound of stone, for wit. corner to the $\frac{1}{4}$ sec. cor., marked on brass cap, 1914 on S. rim. W C W of center; $\frac{1}{4}$ S14 on N. and S23 on S. half; from which a cedar limb 10 ins. in diam., bears N. $59\frac{1}{2}^{\circ} E.$, 70 lks. dist., marked WC $\frac{1}{4}$ S 14 B T. A cedar, 6 ins. diam., brs. S. $28\frac{1}{2}^{\circ} E.$ 73 lks. dist., marked W C $\frac{1}{4}$ S 23, B T. brs. S. $20^{\circ} E.$, 70 lks. dist.,
39.93	Point for $\frac{1}{4}$ sec. cor. $\frac{1}{4}$ S 14 B T.
44.70	Impractical to set $\frac{1}{4}$ sec. cor., bottom of draw, course NE., 75 ft. below rocky point, ascend NE. slope.
48.40	Spur, slopes N., 180 ft. above draw, descend W. slope. Rocky gulch, course NE., 150 ft. below spur, ascend SE. slope.
51.00	Spur, slopes NE. ascend NE. slope.
59.50	Spur ridge, slopes N., 240 ft. above gulch, descend NW. slope.
64.50	Spur, slopes NW., descend W. slope.
75.00	Draw, course NW., 490 ft. below spur ridge, ascend N. slope.
79.86	The cor. of secs. 14, 15, 22 and 23, 50 ft. above draw. Land, mountainous. Soil, rocky, lime formation, 4th rate. Timber, scattering oak, cedar and juniper. Undergrowth, scattering with patches of dense scrub oak, mesquite and catclaw.

Sept. 29, 1914.

Sept. 28, 1914:	
	N. $0^{\circ} 2' E.$, bet. secs. 14 and 15. Descend N. slope, through scattering undergrowth.
7.00	Draw, course NW., descend NW. slope.
14.00	Draw, course NW.
17.60	Draw, course NW.
37.10	Wash. 15 lks. wide, 2 ft. deep, course E., foot of mountain, bears E. and SW., 540 ft. below cor. and continue over rolling land, slopes 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, 1914 on S. rim, $\frac{1}{4}$ S15 on W. and S14 on E. half; raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor., pits impracticable.
54.90	Wash, 18 lks. wide, 2 ft. deep, course E.
67.90	Wash, 30 lks. wide, 2 ft. deep, course NE.
73.10	Wash, 15 lks. wide, 2 ft. deep, course E.
75.80	Wash, 60 lks. wide, 3 ft. deep, course NE.
80.00	Set an iron post 3 ft. long, 2 ins. in diam., 24 ins. in the ground, for the cor. of secs. 10, 11, 14 and 15, marked on brass cap, 1914 on S. rim, T15 S10 in NW., R30E S11 in NE., S14 in SE. and S15 in SW. quadrant; raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor., pits impracticable. Land, mountainous and rolling. Soil, rocky, lime formation, 4th rate. No timber. Undergrowth, scattering with patches of dense scrub oak, mesquite and catclaw.

Sept. 28, 1914.

Partial subdivision of T. 15 S., R. 30 E.

23

Chains
 Sept. 25, 1914.
 N. 89° 50' E.; on a random line bet. secs. 11 and 14.
 40.00 Set temp. $\frac{1}{4}$ sec. cor.
 79.98 Intersect the N. and S. line, 5 lks. S. of the cor. of
 secs. 11, 12, 13 and 14.
 Thence I run
 S. 89° 50' W., on a true line bet. secs. 11 and 14.
 Over rolling land, through dense undergrowth.
 11.60 Wash, 110 lks. wide, 6 ft. deep, course NE.
 29.00 Wash, 6 lks. wide, 1 ft. deep, course NE.
 34.00 Wash, 30 lks. wide, 1 ft. deep, course NE.
 36.55 Wash, 15 lks. wide, 1 ft. deep, course NE.
 39.99 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,
 $\frac{1}{4}$ S11 on N. and
 S14 on S. half; raise a mound of stone 2 ft.
 base, $1\frac{1}{2}$ ft. high, N. of cor., pits impracticable.
 44.45 Wash, 15 lks. wide, 2 ft. deep, course NE.
 49.75 Wash, 18 lks. wide, 2 ft. deep, course NE.
 52.95 Wash, 12 lks. wide, 1 ft. deep, course NE.
 59.30 Wash, 20 lks. wide, 2 ft. deep, course NE.
 66.95 Wash, 18 lks. wide, 2 ft. deep, course NE.
 72.60 Wash, 25 lks. wide, 2 ft. deep, course NE.
 76.25 Wash, 30 lks. wide, 3 ft. deep, course NE.
 79.98 The cor. of secs. 10, 11, 14 and 15.
 Land, rolling.
 Soil, sandy loam, gumbo, gravelly, 2nd and 3rd rate.
 No timber.
 Undergrowth, dense mesquite, catclaw and greasewood.
 Sept. 25 and 28, 1914.

Oct. 2, 1914; at 6h 45m a.m., 11m.t., I set off 32° 7 $\frac{1}{2}$ ' N.
 on the lat. arc; 3° 20 $\frac{1}{2}$ ' S. on the decl. arc; and
 determine with the solar a meridian at the cor. of
 secs. 10, 11, 14, and 15.
 Thence I run
 N. 0° 2' E., bet. secs. 10 and 11.
 Over rolling land, through dense undergrowth.
 2.50 Wagon road, bears E. and W.
 11.75 Wash, 15 lks. wide, 2 ft. deep, course E.
 31.35 Wash, 75 lks. wide, 2 ft. deep, 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; 1914
 on S. rim,
 $\frac{1}{4}$ S10 on W. and
 S11 on E. half; raise a mound of stone 2 ft.
 base, $1\frac{1}{2}$ ft. high, W. of cor., pits impracticable.
 42.00 Wash, 60 lks. wide, 2 ft. deep, course E.
 73.20 Wash, 15 lks. wide, 2 ft. deep, course E.
 80.00 Set an iron post 3 ft. long, 2 ins. in diam., 24 ins. in
 the ground, for the cor. of secs. 2, 3, 10 and 11,
 marked on brass cap; 1914 on S. rim,
 T15S S3 in NW.,
 R30E S2 in NE.,
 S11 in SE. and
 S10 in SW. quadrant; raise a mound of stone 2 ft.
 base, $1\frac{1}{2}$ ft. high, W. of cor., pits impracticable.
 Land, rolling.
 Soil, sandy loam, gumbo, gravelly, 1st to 3rd rate.
 No timber.
 Undergrowth, dense mesquite, catclaw and greasewood.
 Oct. 2, 1914.

N. 89° 50' E., on a random line bet. secs. 2 and 11.
 40.00 Set temp. $\frac{1}{4}$ sec. cor. Oct. 2, 1914.
 80.02 Intersect the N. and S. line, 2 lks. N. of the cor. of
 secs. 1, 2, 11 and 12. Sept. 25, 1914.
 Thence I run
 S. 89° 51' W., on a true line bet. secs. 2 and 11.
 Over rolling land, through dense undergrowth.

24.

Partial subdivision of T. 15 S., R. 30 E.

Chains	
12.00	Wash, 45 lks. wide, 5 ft. deep, course NE.
23.55	Wash, 45 lks. wide, 3 ft. deep, course SE.
40.01	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, $\frac{1}{4}$ S2 on N. and S11 on S. half; raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high, N. of cor., pits impracticable.
40.80	Wash, 12 lks. wide, 18 ins. deep, course NE.
56.00	Wagon road, bears NW. and SE.
80.02	The cor. of secs. 2, 3, 10 and 11. Land, rolling. Soil, sandk loam, gumbo, gravelly, 1st to 3 rd rate. No timber. Undergrowth, dense mesquite, catclaw and greasewood. Sept. 25 and Oct. 2, 1914.
40.00	N. $0^{\circ} 2'$ E., on a random line bet. secs. 2 and 3. Set temp. $\frac{1}{4}$ sec. cor.
81.90	Intersect the N. bdy. of the Tp., 16 lks. E. of cor. of secs. 2, 3, 34 and 35, which is an iron post 3 ins. in diam., 12 ins. in ground, with brass cap, mkd. & witnessed as described by the U. S. Surveyor General. Thence I run S, $0^{\circ} 5'$ E., on a true line bet. secs. 2 and 3. Over rolling land, through dense undergrowth.
15.35	Wash, 25 lks. wide, 3 ft. deep, course NE.
41.60	Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in the ground, for WC to the $\frac{1}{4}$ sec. cor., marked on brass cap 1914 on S. rim WC S. of center; $\frac{1}{4}$ S3' on W. and S2 On E. half; raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor., pits impracticable.
41.80	Wash, 30 lks. wide, 1 ft. deep, course NE.
41.90	Point for $\frac{1}{4}$ sec. cor., falls in wash, impracticable to set $\frac{1}{4}$ sec. cor.
45.65	Wash, 25 lks. wide, 2 ft. deep, course E.
55.00	Wash, 12 lks. wide, 2 ft. deep, course E.
73.85	Wash, 75 lks. wide, 2 ft. deep, course NE.
76.35	Wash, 15 lks. wide, 2 ft. deep, course NE.
78.15	Wagon road, bears NW. and SE.
81.90	The cor. of secs. 2, 3, 10 and 11. Land, rolling. Soil, sandy loam, gumbo, gravelly, 1st to 3rd rate. No timber. Undergrowth, dense mesquite catclaw and greasewood. Oct. 2, 1914.
6.10	Sept. 29, 1914: From the cor. of secs. 14, 15, 22 and 23, I run, West, on a true line bet. secs. 15 and 22. Dunn Springs, bears N. 30° W., a pipe line runs in a Northerly direction to a tank, in the NW $\frac{1}{4}$ of the NE $\frac{1}{4}$ of sec. 15. Descend NW. slope, through scattering undergrowth. Gulch, course N., 160 ft. below cor., continue over rolling land, slopes N.
7.70	Draw, course N.
15.00	Draw, course N., ascend NE slope.
22.00	Spur, slopes N., 90 ft. above last draw, descend NW. slope.
Note	Sept. 29, 1914; At this pt. I set off $2^{\circ} 17\frac{1}{2}'$ S. on decl. arc, & at apparent noon, observe the sun on the meridian; the resulting lat. is $32^{\circ} 7'$ N., which is the correct lat.
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, $\frac{1}{4}$ S15 on N. and S22 on S. half; from which a cedar 14 ins. in diam., bears S. $53\frac{1}{2}^{\circ}$ W., 112 lks. dist., marked $\frac{1}{4}$ S 22 B T ., no other trees available, raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high, N. of cor., pits impracticable.

Chains
 41.00 Draw, course N., 150 ft. below spur, continue over rolling land, slopes N.
 59.00 Draw, course N.
 68.30 Dunn Springs, bear N. 77° E.
 69.90 Draw, course N., ascend NE. slope.
 77.50 Draw, course NE.,
 80.00 110 ft. above 69.90 ch. point, set an iron post 3 ft. long, 2 ins. in diam., 18 ins. in ground on bedrock, supported by a mound of stone, for the cor. of secs. 15, 16, 21 and 22, marked on brass cap; 1914 on S. rim,
 T15S S16 in NW.,
 R30E S15 in NE.,
 S22 in SE. and
 S21 in SW. quadrant; from which a cedar 8 ins. in diam., bears S. 34° E., 214 lks. dist., marked T 15 S R 30 E S 22 B T., no other trees available, raise a mound of stone 2 ft. base, 1½ ft. high, W. of cor., pits impracticable.
 Land, mountainous and rolling.
 Soil, rocky, lime formation, 3rd and 4th rate.
 Timber, scattering cedar and juniper.
 Undergrowth, scattering with patches of dense scrub oak, mesquite and catclaw.

N. 0° 2' E., bet. secs. 15 and 16.
 Descend NE. slope, through scattering undergrowth.
 21.00 Gulch, course NE., 310 ft. below cor., ascend E. slope.
 39.40 Spur, slopes NE., 100 ft. above gulch, descend E. slope.
 40.00 Set an iron post 3 ft. long, 1 in. in diam., 10 ins. in the ground, on bed rock, supported by a mound of stone, for ¼ sec. cor., marked on brass cap; 1914 on S. rim, ½ S16 on W. and ½ S15 on E. half; raise a mound of stone 2 ft. base, 1½ ft. high, N. of cor., pits impracticable.
 42.00 Descend NE. slope.
 54.20 Gulch, course NW., 200 ft. below spur, ascend W. slope.
 62.00 Top of ascent, 75 ft. above gulch, descend W. slope.
 76.00 Foot of mountains, bears E. and SW., 125 ft. below 62 ch. point, continue over rolling land.
 78.70 Wash, 25 lks. wide, 2 ft. deep, course NE.
 80.00 Set an iron post 3 ft. long, 2 ins. in diam., 24 ins. in the ground, for the cor. of secs. 9, 10, 15 and 16, marked on brass cap; 1914 on S. rim,
 T15S S9 in NW.,
 R30E S10 in NE.,
 S15 in SE. and
 S16 in SW. quadrant; raise a mound of stone 2 ft. base, 1½ ft. high, W. of cor., pits impracticable.
 Land, rolling and mountainous,
 Soil, rocky, lime formation, 3rd and 4th rate.
 No timber,
 Undergrowth, scattering with patches of dense scrub oak, mesquite and catclaw.

East on a random line bet. secs. 10 and 15.
 40.00 Set temp. ¼ sec. cor.
 80.14 Intersect the N. and S. line, 14 lks. S. of the cor. of secs. 10, 11, 14 and 15.
 Thence I run
 S. 89° 54' W., on a true line bet. secs 10 and 15.
 Over rolling land, through scattering undergrowth.
 7.65 Wagon road, bears NE. and SW.
 16.15 Wash, 90 lks. wide, 3 ft. deep, course N.
 26.00 Small tank, full of water, bears S. about 10 chs. dist., Corral, bears S. 35° E., about 7 chs. dist.
 26.40 Dim road, bears N. and S.
 29.00 Wash, 30 lks. wide, 2 ft. deep, course N.
 35.95 Wash, 22 lks. wide, 2 ft. deep, course NW.

26. Partial subdivision of T. 15 S., R. 30 E.

Chains.	
38.25	Wash, 18 lks. wide, 2 ft. deep, course N.
40.07	Set an iron post 3 ft. long, 1 in. in diam., 14 ins. in the ground, on hand pan, supported by a mound of stone, for $\frac{1}{4}$ sec. cor., marked on brass cap; 1914 on S. rim, $\frac{1}{4}$ S10 on N. and S15 on S. half; raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high, N. of cor., pits impracticable.
51.95	Wash, 18 lks. wide, 1 ft. deep, course NE.
77.75	Wash, 40 lks. wide, 2 ft. deep, course NE.
80.14	The cor. of secs. 9, 10, 15 and 16. Land, rolling. Soil, sandy loam and gumbo, gravelly, 1st to 3rd rate. No timber. Undergrowth, scattering with patches of dense mesquite, catclaw and greasewood. Sept. 29, 1914.

	Sept. 30, 1914.
	N. $0^{\circ} 2'$ E., bet. secs. 9 and 10. Over rolling land, through scattering undergrowth.
5.25	Wash, 18 lks. wide, 2 ft. deep, course NE.
19.85	Wash, 20 lks. wide, 2 ft. deep, course NE.
29.20	Wash, 10 lks. wide, 1 ft. deep, course NE.
32.75	Wash, 12 lks. wide, 2 ft. deep, 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; 1914 on S. rim, $\frac{1}{4}$ S9 on W. and S10 on E. half; raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor., pits impracticable.
43.85	Wood canyon wash, 50 lks. wide, 2 ft. deep, course NE.
45.70	Wash, 30 lks. wide, 2 ft. deep, course NE.
48.20	Wagon road, bears NE. and SW.
80.00	Set an iron post 3 ft. long, 2 ins. in diam., 24 ins. in the ground, for the cor. of secs. 3, 4, 9 and 10, marked on brass cap; 1914 on S. rim, T15S S4 in NW., R30E S3 in NE., S10 in SE. and S9 in SW. quadrant; raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor., pits impracticable. Land, rolling. Soil, sandy loam, gumbo, gravelly, 1st to 3rd rate. No timber. Undergrowth, scattering with patches of dense mesquite, catclaw and greasewood. Sept. 30, 1914.

	Oct. 2, 1914.
	N. $89^{\circ} 54'$ E., on a random line bet. secs. 3 and 10.
40.00	Set temp, $\frac{1}{4}$ sec. cor.
80.14	Intersect the N. and S. line, 2 lks. N. of the cor. of secs. 2, 3, 10 and 11, Thence I run S. $89^{\circ} 55'$ W., on a true line bet. secs. 3, and 10. Over rolling land, through dense undergrowth.
10.00	Old wagon road, bears NE. and SW.
12.25	Wash, 65 lks. wide, 2 ft. deep, course NE.
21.70	Wagon road, bears NE. and SW.
40.07	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; 1914 on S. rim, $\frac{1}{4}$ S3 on N. and S10 on S. half; raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high, N. of cor., pits impracticable.
59.85	Wash, 15 lks. wide, 3 ft. deep, course NE.
61.60	Wash, 12 lks. wide, 2 ft. deep, course NE.
70.90	Wash, 20 lks. wide, 1 ft. deep, course NE.
80.14	The cor. of secs. 3, 4, 9 and 10. Note: Oct. 2, 1914. At this cor., I set off $3^{\circ} 27\frac{1}{2}'$ S. on decl. arb.; at apparent noon, observe the sun on the meridian; the resulting lat. is $32^{\circ} 9'$ N. Land, rolling. Soil, sandy loam, gumbo, gravelly, 1st to 3rd rate. catclaw and greasewood. Sept. 30, 1914.

Partial Subdivision of Township 15 South, Range 30 East. 27

Chains.	
	No timber. Undergrowth, scattering, with patches of dense mesquite, catclaw and greasewood.
40.00	N. 0° 2' E., on a random line, bet. secs. 3 and 4. Set temp. $\frac{1}{4}$ sec. cor.
81.92	Intersect the north bdy. of the Tp., at the cor. of secs. 3, 4, 33 and 34, which is an iron post 3 ins. in diam., 12 ins. above ground, with brass cap, marked and witnessed as described by the Surveyor General.
	Thence I run, S. 0° 2' W., on true line, bet. secs. 3 and 4. Over rolling land, through scattering undergrowth.
7.10	Wash, 15 lks. wide, 2 ft. deep, course NE.
15.40	Wagon road brs. NE. to San Simon, and SW. to Wood Canyon.
33.70	Wash, 20 lks. wide, 2 ft. deep, course NE.
41.92	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 4 on W., and S 3 on E. half; raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high, west of cor. Pits impracticable.
48.30	Wash, 20 lks. wide, 2 ft. deep, course NE.
69.90	Wash, 30 lks. wide, 2 ft. deep, course NE.
77.60	Wash, 10 lks. wide, 1 ft. deep, course NE.
81.92	The cor. of secs. 3, 4, 9 and 10. Land, rolling. Soil, sandy loam, gumbo, gravelly, 1st to 3rd rate. No timber. Undergrowth, scattering, with patches of dense mesquite, catclaw and greasewood.
	Oct. 2, 1914.
	Sept. 30, 1914: At 7h. a.m., l.m.t., I set off 32° 7' N. on the lat. arc; 2° 34' S. on the decl. arc; and determine with the solar a meridian at the cor. of secs. 15, 16, 21 and 22.
	Thence I run, West, on a true line, bet. secs. 16 and 21.
13.00	Ascend NE. slope, through scattering timber and undergrowth. Top of ascent, 310 ft. above cor., continue along steep N. slope, rolling.
26.00	Descend NW. slope.
32.70	Gulch, course NW., 340 ft. below 26 ch. point; continue along rolling N. slope, descending.
39.45	Draw, course N.
40.00	Set an iron post 3 ft. long, 1 in. in diam., 20 $\frac{1}{2}$ ins. in the ground, on bed rock, supported by a mound of stone, for $\frac{1}{4}$ sec. cor., marked on brass cap, 1914 on S. rim, $\frac{1}{4}$ S 16 on N., and S 21 on S. half; from which, A cedar, 12 ins. in diam., brs. N. 53° E., 185 lks. dist., marked $\frac{1}{4}$ S 16 B T. A cedar, 6 ins. in diam., brs. S. 58 $\frac{3}{4}$ ° E., 227 lks. dist., marked $\frac{1}{4}$ S 21 B T.
50.70	Draw, course NW.
51.70	Wire fence brs. NW. and SE.
70.90	Draw, course N.
78.15	Draw, course NW.
80.00	Set an iron post 3 ft. long, 2 ins. in diam., 16 ins. in the ground, on bed rock, supported by a mound of stone for the cor. of secs. 16, 17, 20 and 21, marked on brass cap, 1914 on S. rim, T 15 S S 17 in NW., R 30 E S 16 in NE., S 21 in SE., and S 20 in SW. quadrant; from which,

28. Partial Subdivision of Township 15 South, Range 30 E

Chains.

	<p>A cedar, 20 ins. in diam., brs. N. $0\frac{3}{4}^{\circ}$ E., 248 lks. dist., marked T 15 S R 30 E S 16 BT.</p> <p>A cedar, 8 ins. in diam., brs. S. $54\frac{1}{4}^{\circ}$ E., 224 lks. dist., marked T 15 S R 30 E S 21 BT.</p> <p>A cedar, 18 ins. in diam., brs. N. $15\frac{1}{2}^{\circ}$ W., 292 lks. dist., marked T 15 S R 30 E S 17 B T.</p> <p>No other trees within limits; raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high, west of cor. Pits impracticable. Land, mountainous. Soil, rocky, lime formation, 4th rate. Timber, scattering cedar and juniper. Undergrowth, scattering, with patches of dense mesquite, scrub oak, and catclaw.</p>

	N. $0^{\circ}1'$ E., bet. secs. 16 and 17.
	Descend N. slope, through scattering timber and undergrowth.
2.50	Draw, course NW., 60 ft. below cor.; ascend SW. slope.
8.00	Top of ascent; 50 ft. above draw; descend NW. slope.
21.75	Draw, course NW., 80 ft. below 8 ch. point; ascend SW. slope.
23.00	Top of ascent, 20 ft. above draw; descend NW. slope.
28.00	Foot of mountain, brs. NE and SW., 60 ft. below 23 chs. point; continue over rolling land.
38.25	Wood canyon wash, 75 lks. wide, 2 ft. deep, course NE.
40.00	Set an iron post 3 ft. long, 1 in. in diam., 20 ins. in the ground, on hardpan, supported by a mound of stone, for $\frac{1}{4}$ sec. cor., marked on brass cap, 1914 on S. rim, $\frac{1}{4}$ S 17 on W., and S 16 on E. half; from which,
	A willow, 10 ins. in diam., brs. S. $29\frac{3}{4}^{\circ}$ E., 113 lks. dist., marked $\frac{1}{4}$ S 16 B T.
	A willow, 7 ins. in diam., brs. S. $3\frac{3}{8}^{\circ}$ W., 192 lks. dist., marked $\frac{1}{4}$ S 17 B T.
40.40	Wash, 20 lks. wide, 18 ins. deep, course NE.
47.26	George Ettitta's house, brs. west about 3 chs. dist.
47.65	Wagon road, brs. NE and SW.
48.45	Blacksmith's shop, brs. west about 30 lks. dist.
53.25	Ascend SE. slope.
56.00	Enter rolling bench, brs. NE and SW., 50 ft. above 53.25 ch. point.
78.00	Wash, 12 lks. wide, 18 ins. deep, course NE.
80.00	Set an iron post 3 ft. long, 2 ins. in diam., 24 ins. in the ground, for the cor. of secs. 8, 9, 16 and 17, marked on brass cap, 1914 on S. rim, T 15 S S 8 in NW., R 30 E S 9 in NE., S 16 in SE., and S 17 in SW. quadrant; raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high, west of cor. Pits impracticable. Note. Sept. 30, 1914: At this cor. I set off $2^{\circ}41'$ S. on the decl. arc; and at apparent noon; observe the sun on the meridian; the resulting lat. is $32^{\circ}7\frac{1}{2}'$ N.
	-Land, rolling and mountainous.
	Soil, sandy loam, gumbo, rocky, gravelly, 2nd to 4th rate. Timber, scattering cedar, oak and willow. Undergrowth, scattering, with patches of dense scrub oak, mesquite, catclaw, and willow.

	East, on a random line, bet. secs. 9 and 16.
40.00	Set temp. $\frac{1}{4}$ sec. cor.
80.08	Intersect the N. and S. line, 5 lks. N. of the cor. of secs. 9, 10, 15 and 16. Sept. 30, 1914.
	Oct. 4, 1914. Thence I run,
	N. $89^{\circ}58'$ W., on a true line, bet. secs. 9 and 16.
	Over rolling land, through scattering undergrowth.
19.55	Draw, course NE.
40.04	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 9 on N., and S 16 on S. half; raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high, N. of cor. Pits imprac.
43.90	Draw, course N.
49.65	Wood canyon wash, 60 lks. wide, 2 ft. deep, course NE.
57.45	Wagon road brs. NE and SW.
78.15	Wash, 15 lks. wide, 3 ft. deep, course NE.

Chains

80.08

The cor. of secs. 8, 9, 16 and 17.
Land, rolling,
Soil, sandy loam, gumbo, gravelly, 1st to 3rd rate.
No timber.
Undergrowth, scattering with patches of dense mesquite,
catclaw and greasewood.

Oct. 4, 1914.

40.00

Oct. 2, 1914.
N. $0^{\circ} 1'$ E., bet. secs. 8 and 9.
Over rolling land, through scattering undergrowth.
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,

76.40

$\frac{1}{4}$ S8 on W. and
S9 on E. half; raise a mound of stone 2 ft.
base, $1\frac{1}{2}$ ft. high, W. of cor., pits impracticable.

80.00

Wagon road, bears NW. and SE.
Set an iron post 3 ft. long, 2 ins. in diam., 24 ins. in
the ground, for the cor. of secs. 4, 5, 8 and 9,
marked on brass cap; 1914 on S. rim,

T15S S5 in NW.,
~~S30E~~ S4 in NE.,
S9 in SE. and
S8 in SW. quadrant; raise a mound of stone 2 ft.
base, $1\frac{1}{2}$ ft. high, W. of cor., pits impracticable.

Land, rolling.
Soil, sandy loam, gumbo, gravelly, 2nd and 3rd rate.
No timber.

Undergrowth, scattering with patches of dense mesquite,
catclaw and greasewood.

Oct. 2, 1914.

40.00

S. $89^{\circ} 58'$ E., on a random line bet. secs. 4 and 9.

80.06

Set temp. $\frac{1}{4}$ sec. cor.,
Intersect the N. and S. line, at the cor. of secs. 3, 4,
9 and 10.

Thence I run

N. $89^{\circ} 58'$ W., on a true line bet. secs. 4 and 9.

Over rolling land, through scattering undergrowth.

4.85

Wash, 15 lks. wide, 10 ft. deep, course NE.

10.00

Wash, 15 lks. wide, 2 ft. deep, course NE.

18.75

Wash, 10 lks. wide, 3 ft. deep, course NE.

29.45

Wagon road, bears N. and S.

40.03

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; 1914
on S. rim,

$\frac{1}{4}$ S4 on N. and
S9 on S. half; raise a mound of stone 2 ft.
base, $1\frac{1}{2}$ ft. high, N. of cor., pits impracticable.

40.10

Wash, 10 lks. wide, 2 ft. deep, course N.

43.90

Wash, 15 lks. wide, 2 ft. deep, course NE.

61.35

Wash, 70 lks. wide, 3 ft. deep, course NE.

73.50

Wash, 15 lks. wide, 18 ins. deep, course NE.

80.06

The cor. of secs. 4, 5, 8 and 9.

Land, rolling.

Soil, sandy loam, gumbo, gravelly, 1st to 3rd rate.

No timber,

Undergrowth, scattering with patches of dense mesquite,
catclaw and greasewood.

Oct. 2, 1914.

40.00

Oct. 5, 1914; at 7h 30m a.m., l.m.t., I set off $32^{\circ} 8\frac{1}{2}'$ N.
on the lat. arc; $4^{\circ} 31\frac{1}{2}'$ S. on the decl. arc; and
determine with the solar a meridian at the cor. of
secs. 4, 5, 8 and 9.

Thence I run

N. $0^{\circ} 1'$ E., on a random line bet. secs. 4 and 5.

81.81

Set temp. $\frac{1}{4}$ sec. cor.
Intersect the N. bdy. of the Tp., 30 lks. W. of the cor.
of secs. 4, 5, 32 and 33, which is an iron post 3 ins.
in diam.

Chains 12 ins. above ground, with brass cap, marked & witnessed as described by the U. S. Surveyor General.

Thence I run
S. $0^{\circ} 14' W.$, on a true line bet. secs. 4 and 5.
Over rolling land, through scattering undergrowth.

3.10 Wash, 55 lks. wide, 2 ft. deep, course NW.

41.81 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,
 $\frac{1}{2}$ S5 on W. and
S4 on E. half; raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor., pits impracticable.

49.05 Wash, 20 lks. wide, 2 ft. deep, course NW.

56.95 Wash, 15 lks. wide, 2 ft. deep, course NE.

60.05 Old wagon road, bears E. and W.

81.81 The cor. of secs 4, 5, 8 and 9.
Land, rolling.
Soil, sandy loam, gumbo, gravelly, 1st to 3rd rate.
No timber.
Undergrowth, scattering with patches of dense manquite, catclaw and greasewood.

Oct. 5, 1914.

Oct. 4, 1914; at 7h 30m a.m., l.m.t., I set off $32^{\circ} 7\frac{1}{2}' N.$ on the lat. arc; $4^{\circ} 8\frac{1}{2}' S.$ on the decl. arc; and determine a meridian with the solar at the cor. of secs. 8, 9, 16 and 17.

Thence I run
West on a true line bet. secs. 8 and 17.
Over rolling land, through scattering undergrowth.

9.60 Draw, course N., foot of mountain, bears N. and S., ascend NE. slope.

25.50 Spur, slopes N., 135 ft. above draw, descend NW. slope.

37.00 Draw, course NE., 75 ft. below spur, ascend 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; 1914 on S. rim,
 $\frac{1}{2}$ S8 on N. and
S17 on S. half; raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high, N. of cor., pits impracticable,

58.40 Rocky spur, slopes N., 320 ft. above draw, descend NW. slope.

68.80 Draw, course NE., 100 ft. below spur, ascend NE. slope.

76.50 Spur, slopes N., 190 ft. above draw, descend NW. slope.

80.00 50 ft. below spur: Set an iron post, 3 ft. long, 2 ins. diam., 24 ins. in ground, for cor. of secs. 7, 8, 17 and 18, marked on brass cap; 1914 on S. rim,
T15S S7 in NW.,
R30E S8 in NE.,
S17 in SE. and
S18 in SW. quadrant; from which an oak 5 ins. in diam., bears N. $45\frac{3}{4}^{\circ} W.$, 118 lks. dist., marked T 15 S R 30 E S 7 B T ., no other trees within limits, raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor.,
Pits impracticable.

Land, rolling and mountainous.
Soil, sandy loam, gumbo, gravelly, rocky, granite formation, 2nd to 4th rate.
Timber, scattering oak, cedar and juniper.
Undergrowth, scattering with patches of dense scrub oak, mesquite and catclaw.

Oct. 4, 1914.

40.00 West on a random line bet. secs. 7 and 18.
79.87 Set temp. $\frac{1}{4}$ sec. cor.
Intersect the W. bdy. of the Tp. 15 lks. S. of the cor. of secs. 7 and 18, reestablished by me; as hereinbefore described. above ground, marked and witnessed as hereinbefore described.
Thence I run
S. $89^{\circ} 54' E.$, on a true line bet. secs. 7 and 18.

Chains	
	Ascend W. slope, through scattering undergrowth.
1.75	Spur, slopes NW., 30 ft. above cor. Note: At this point, Oct. 4, 1914: I set off $4^{\circ} 14'$ S. on the decl. arc; and at apparent noon, observe the sun on the meridian, the resulting lat. is $32^{\circ} 7\frac{1}{2}'$ N., which is the correct lat.
	Descend E. slope.
5.10	Gulch, course N., 80 ft. below spur, ascend W. slope.
12.40	Spur, slopes NE., 150 ft. above gulch, descend SE. slope.
21.70	Gulch, course NE., 100 ft. below spur, ascend NW. slope.
33.90	Spur, slopes N., 140 ft. above gulch, descend NE. slope.
39.30	Gulch, course NE., 125 ft. below spur, ascend NW. slope.
39.935	Set an iron post 3 ft. long, 1 in. in diam., 20 ins. in the ground, on bed rock, supported by a mound of stone, for $\frac{1}{4}$ sec. cor., marked on brass cap; 1914 on S. rim, $\frac{1}{4}$ S7 on N. and $\frac{1}{4}$ S18 on S. half; from which a cedar limb 6 ins. in diam., bears N. 10° W., 23 lks. dist., marked $\frac{1}{4}$ S 7 B T . A cedar limb 6 ins. in diam., bears S. 19° W., 38 lks. dist., marked $\frac{1}{4}$ S 18 B T .
45.90	Ridge, bears NE. and SW., 75 ft. above Gulch, descend E. slope.
51.00	Draw, course NE., 185 ft. below ridge, ascend NW. slope.
56.90	Spur, slopes NE., 20 ft. above draw, descend NE. slope.
64.70	Draw, course NE.
79.00	Draw, course NE., 300 ft. below spur, ascend NW. slope.
79.87	The cor. of secs. 7, 8, 17 and 18, 20 ft. above draw. Land, mountainous. Soil, rocky, granite formation, 3rd and 4th rate. Timber scattering oak, cedar and juniper. Undergrowth, scattering with patches of dense scrub oak, mesquite and catclaw. Oct. 4, 1914.

	N. 0° 1' E., bet. secs. 7 and 8.
1.80	Descend NW. slope, through scattering undergrowth. Draw, course NE., 30 ft. below cor., continue along along rolling E. slope,
7.10	Draw, course NE.
14.00	Descend NW. slope.
22.25	Gulch, course NE., 80 ft. below 14 ch. point, ascend SE. slope.
32.00	Rocky point, slopes SE., 260 ft. above gulch, continue along rolling E. slope.
40.00	Set an iron post 3 ft. long, 1 in. in diam., 20 ins. in the ground, on bed rock, supported by a mound of stone, for $\frac{1}{4}$ sec. cor., marked on brass cap; 1914 on S. rim, $\frac{1}{4}$ S7 on W. and $\frac{1}{4}$ S8 on E. half; raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor., pits impracticable.
46.00	Spur, ridge, slopes NE., descend NE. slope.
58.25	Draw, course NE., descend E. slope.
65.35	Gulch, course NW., 430 ft. below spur, continue along rolling W. slope.
80.00	Set an iron post 3 ft. long, 2 ins. in diam., 18 ins. in the ground, on bed rock, supported by a mound of stone, for the cor. of secs. 5, 6, 7 and 8, marked on brass cap; 1914 on S. rim, $\frac{1}{4}$ T15S S6 in NW., $\frac{1}{4}$ R30E S5 in NE., $\frac{1}{4}$ S8 in SE. and $\frac{1}{4}$ S7 in SW. quadrant; from which an oak 16 ins. in diam., bears N. 37° E., 126 lks. dist., marked T 15 S R 30 E S 5 B T . An oak 6 ins. in diam., bears S. $30\frac{3}{4}^{\circ}$ E., 101 lks. dist., marked T 15 S R 30 E S 8 B T . An oak 10 ins. in diam., bears S. $55\frac{3}{4}^{\circ}$ W., 50 lks. dist., marked T 15 S R 30 E S 7 B T . An oak 8 ins. in diam., bears N. $42\frac{1}{2}^{\circ}$ W., 65 lks. dist., marked T 15 S R 30 E S 6 B T . Land, mountainous.

Chains

Soil, rocky, granite formation, 3rd and 4th rate.
Timber, scattering oak, cedar and juniper.
Undergrowth, scattering with patches of dense scrub oak,
mesquite and catclaw.
Oct. 4; 1914.

Oct. 5, 1914.

40.00
79.84

East on a random line bet. secs. 5 and 8.
Set temp. $\frac{1}{4}$ sec. cor.
Intersect the N. and S. line, 16 lks. N. of the cor. of
secs. 4, 5, 8 and 9.

1.80
10.20
21.25
29.15
29.50
39.60
39.92

Thence I run
N. $89^{\circ} 53'$ W., on a true line bet. secs. 5 and 8.
Over rolling land, through scattering undergrowth.
Wagon road, bears NW. and SE.
Wash, 70 lks. wide, 3 ft. deep, course N.
Wash, 20 lks. wide, 2 ft. deep, course NE.
Wash, 35 lks. wide, 2 ft. deep, course NW.
Foot of mountain, bears NW. and SE., ascend NE. slope.
Draw, course NE.
Set an iron post 3 ft. long, 1 in. in diam., 6 ins. in
the ground, on bed rock, supported by a mound of stone,
for $\frac{1}{4}$ sec. cor., marked on brass cap; 1914 on S. rim,
 $\frac{1}{4}$ S5 on N. and

67.80
79.84

S8 on S. half; raise a mound of stone 2 ft.
base, $1\frac{1}{2}$ ft. high, N. of cor., pits impracticable.
Spur ridge, slopes N., 750 ft. above foot of mountain,
descend W. slope.
The cor. of secs. 5, 6, 7 and 8, 450 ft. below spur.
Land, rolling and mountainous.
Soil, sandy loam, gumbo, gravelly, rocky, granite
formation, 1st to 4th rate.
Timber, scattering oak, cedar and juniper.
Undergrowth, scattering with patches of dense scrub oak,
mesquite, catclaw and greasewood.

Oct. 5, 1914.

40.00
79.90

N. $89^{\circ} 54'$ W., on a random line bet. secs. 6 and 7.
Set temp. $\frac{1}{4}$ sec. cor.
Intersect the W. bdy. of the Tp., 10 lks. N. of the cor.
of secs. 6 and 7, reestablished by means of a mound of stone,
hereinbefore described.

10.00
15.30
19.00
39.95

Thence I run
S. $89^{\circ} 58'$ E., on a true line bet. secs. 6 and 7.
Ascend N. slope, through scattering undergrowth.
Ascend NW. slope.
Spur, slopes N., 230 ft. above cor., descend NE. slope.
Descend E. slope.
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,
 $\frac{1}{4}$ S6 on N. and

42.40
50.20
50.90
59.70
72.30
79.90

S7 on S. half; raise a mound of stone 2 ft.
base, $1\frac{1}{2}$ ft. high, N. of cor., pits impracticable.
Wash, 35 lks. wide, 2 ft. deep, course N., 670 ft. below
spur, continue along rolling N. slope.
Wash, 70 lks. wide, 2 ft. deep, course N.,
Ascend W. slope.
Spur, slopes N., 160 ft. above last wash, descend NE.
slope.
Gulch, course NE., 225 ft. below spur, ascend W. slope.
The cor. of secs. 5, 6, 7 and 8, 140 ft. above gulch.
Land, mountainous.
Soil, rocky, granite formation, 3rd and 4th rate.
Timber, scattering oak, cedar and juniper.
Undergrowth, scattering with patches of dense scrub oak,
mesquite and catclaw.

Oct. 5, 1914.

Chains Oct. 4, 1914.
 N. 0° 1' E. on a random line bet. secs. 5 and 6.
 40.00 Set temp. $\frac{1}{4}$ sec. cor.
 81.79 Intersect the N. bdy. of the Tp., 5 lks. E. of the cor.
 of secs. 5, 6, 31 and 32, which is an iron post 3 ins.
 in diam., 12 ins. above ground, with brass cap, marked &
 witnessed as described by Surveyor General.
 Thence I run
 S. 0° 1' E., on a true line bet. secs. 5 and 6.
 Over rolling land through scattering undergrowth.
 9.60 Wash, 20 lks. wide, 1 ft. deep, course NE.
 18.00 Wash, 100 lks. wide, 3 ft. deep, course NE.
 32.80 Wagon road, bears E. and W.
 33.80 Foot of mountain, bears E. and W., ascend N. slope.
 41.79 Set an iron post 3 ft. long, 1 in. in diam., 6 ins. in
 the ground, on bed rock, supported by a mound of stone,
 for. $\frac{1}{4}$ sec. cor., marked on brass cap; 1914 on S. rim,
 $\frac{1}{4}$ S6 on W. and
 S5 on E. half; from which a mulberry 5 ins. in
 diam., bears S. 84° E., 45 lks. dist., marked $\frac{1}{4}$ S 5 B T.
 no other trees within limits, raise a mound of stone 2
 ft. base, $1\frac{1}{2}$ ft. high, W. of cor., pits impracticable.
 56.60 Ascend W. slope.
 69.70 Draw, course W.
 74.80 Top of ascent, 800 ft. above foot of mountain, descend
 W. slope.
 81.79 The cor. of secs. 5, 6, 7 and 8, 80 ft. below 74.80 ch.
 point.
 Land, rolling and mountainous.
 Soil, sandy loam, gumbo, gravelly, rocky, granite
 formation, 1st to 4th rate.
 Timber, scattering oak, cedar and juniper.
 Undergrowth, scattering with patches of dense scrub oak,
 mesquite, catclaw and greasewood.
 Oct. 4, 1914.

General Description.

This township contains nearly every variety of land from plains to mountains, and the soil ranges from sandy loam to solid rock, the soil on the plains from 1st to 3rd rate, on the mountains from 3rd to 4th rate.

There is scattering oak, pine, cedar and juniper on the mountains, sycamore, cottonwood, ash and walnut in some of the gulches.

There is indications of mineral in the Southern part of this township, the Willie Rose Mine is in sec. 26.

There are settlers in secs. 26 and 35.

William B. Kimmel

U.S. Surveyor.

FOR FINAL OATH OF UNITED STATES SURVEYOR.
See Book "D."

I, _____, U. S. Surveyor, do solemnly swear that, in pursuance of special instructions received from the U. S. Surveyor General for _____ bearing date of the _____ day of _____, 191 _____, 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 _____ of the _____ Meridian, in the State of _____, which are represented in the foregoing field notes as having been executed by me, and under my direction; and I do further solemnly swear that all the corners of said survey have been established and perpetuated in strict accordance with the Manual of Surveying Instructions, and the special written instructions of the U. S. Surveyor General for _____ and in the specific manner described in the field notes, and that the foregoing are the original field notes of such survey.

U. S. Surveyor.

Subscribed by said _____, and sworn to before me }
this _____ day of _____, 191 _____ }



APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Phoenix Arizona June 19 _____, 191 5

The foregoing field notes of the survey of the Subdivision Lines and Resurvey of the East and West bdrs. of Township 15 South Range 30 East of the Gila & Salt River Base & Meridian in the State of Arizona

executed by William B. Kimmel U.S. Surveyor under his special instructions dated December 30, 1913 for Group 26, ~~no~~, having been critically examined, and the necessary corrections and explanations made, the said field notes, and the & resurveys surveys they describe, are hereby approved.

Frank S. Ingalls
Surveyor General of Arizona.

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