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BOOK 3145

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Book "M"
(Subdivisions)

JAN. 20 1918

FIELD NOTES

RE-
OF THE SURVEY OF THE

EAST BOUNDARY,

and Survey of the

SUBDIVISION LINES OF

TOWNSHIP 23 NORTH, RANGE 20 WEST,

Of the Gila and Salt River Base and Meridian,

In the State of Arizona,

EXECUTED BY

Theo. O. Johnston, and Guy H. Richardson, U.S. Surveyors,

and

^{OK}
Edward O. Lyman and Hugo Price, U. S. Transitmen,

~~In the capacity of U. S. Surveyor~~, under instructions dated January 6,, 1915,

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

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

Office, Jan. 26,, 1915.

Resurvey & Survey commenced May 6, 1915, and Jan. 6,, 1916

Resurvey & Survey completed May 13, 1915, and Jan. 11,, 1916.

Executed under Assignment

Instructions dated Jan. 31, 1915 and Nov. 29, 1915.

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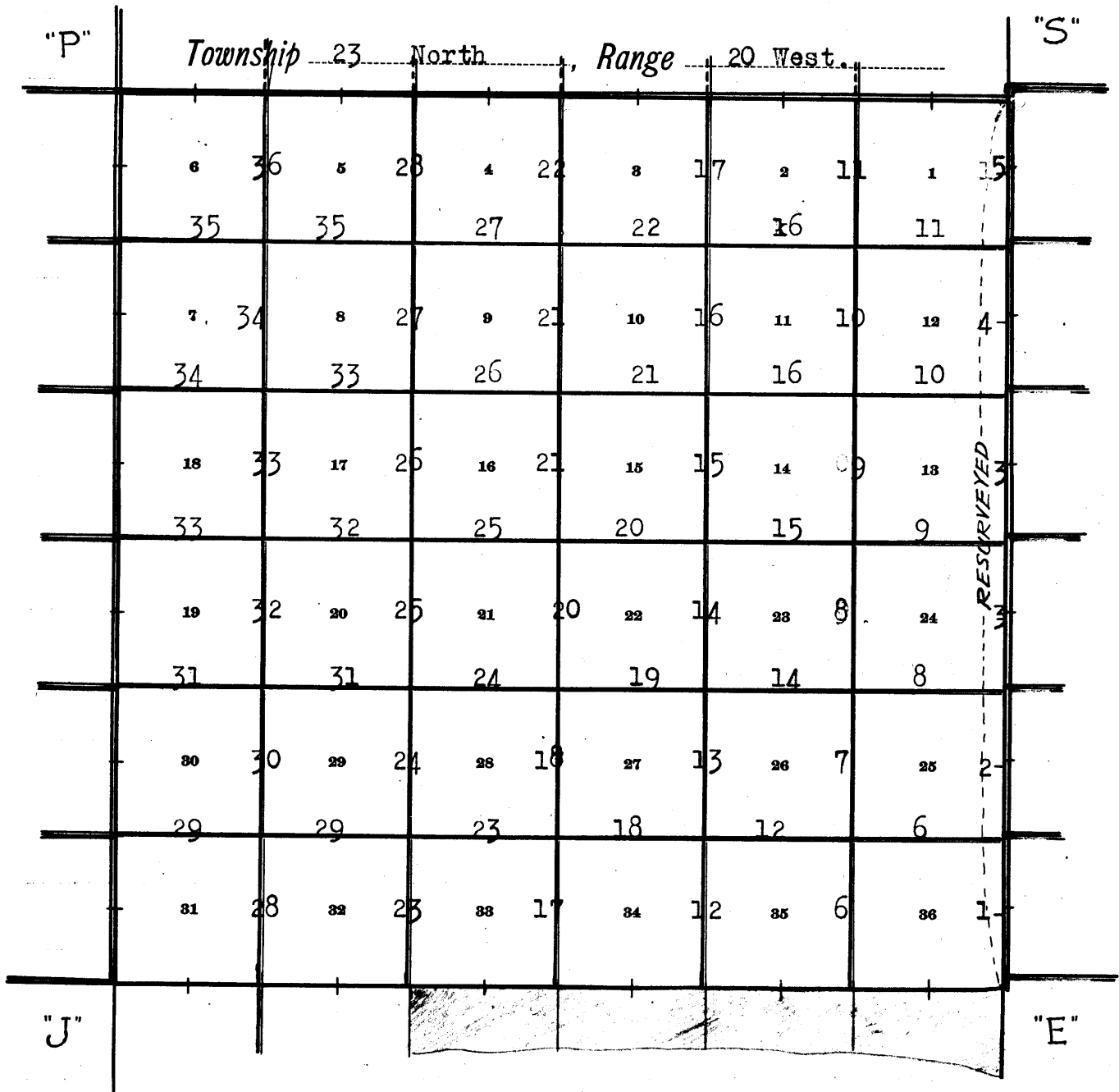
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BOOK 3145

Book "M"
(Subdivisions)
Group 44.

INDEX DIAGRAM.



- Notes in this book (indexed)
- Notes in book "A" Group 44
- Notes in book "E" Group 44
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- Notes in book "N" Group 44
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- Accepted surveyed lines.
- Area surveyed as per accepted plats on file.

Resurvey of East boundary, and
Survey of Subdivision of T. 23 N., R. 20 W.

BOOK 3145

16

Chains

Survey of south portion of Tp. commenced May 6, 1915, and executed by Theo. O. Johnston, U. S. Surveyor, and Edward O. Lyman, U. S. Transitman; and survey of north portion was commenced Jan. 6, 1916, and executed by Guy H. Richardson, U. S. Surveyor, and Hugo Price, U. S. Transitman.

The instruments used are described, with record of approval by the assistant supervisor of surveys and field tests, in Book "A".

All measurements made with steel tapes and clinometers.

Lines surveyed and resurveyed by Theo. O. Johnston and Edward O. Lyman were run by means of transit lines projected with carefully measured angles from a meridian determined by observation on Polaris at eastern elongation, a record of which follows herein.

The bearing of lines run by Guy H. Richardson and Hugo Price was obtained by means of solar observations.

The initials "T. O. J.", "E. O. L.", "G. H. R.", and "H. P." are inserted in the following field notes at the beginning and ending of those portions of the notes describing the surveys executed by Theo. O. Johnston, Edward O. Lyman, Guy H. Richardson, and Hugo Price, respectively.

T. O. J., E. O. L., G. H. R., and H. P.

T. O. J.

May 6, 1915.

At my camp, in sec. 4, near the SW. cor., in T. 22 N., R. 20 W., in latitude $35^{\circ}19'N.$, and longitude $114^{\circ}23'20''W.$, at 4h 38.3m. a.m., l.m.t., I observe Polaris at eastern elongation, in accordance with instructions in the Manual, and mark a point in the line thus determined by a tack driven in a wooden stake firmly set in the ground 5 chs. N. of my station.

At 6h30m a.m., l.m.t., I turn off the azimuth of Polaris $1^{\circ}24'$ to the west, and mark the meridian thus determined by cutting a small groove in a stone firmly set in the ground west of the point previously marked.

The magnetic bearing of the true meridian, at 6h 40m. a.m., is $N.15^{\circ}15'W.$; the angle thus determined gives the mag. decl. $15^{\circ}15' E.$

T. O. J.

Independent Resurvey of E. Bdy., T. 23 N., R. 20 W.

E. O. L.

May 6, 1915.

From cor. of Tps. 22 and 23 N., R. 20 W., (originally cor. of four Tps.), but changed as described in Book "E",

North, on E. bdy. of sec. 36,
over mountainous land, through scattering undergrowth.
Desc. 45 ft. to

1.73 Gulch, course W. 2 chs. to main gulch, course S.; thence line runs along general W. slope

4.70 The closing cor. of Tps. 22 and 23 N., R. 19 W., described in Book "E".

39.00 Ravine, course $S.10^{\circ}W.$; asc.

40.00 Set an iron post, 3 ft. long, 1 in. diam., 12 ins. in the ground and 14 ins. in a mound of stone, for reestablished $\frac{1}{4}$ sec. cor. pertaining to sec. 36, with brass cap, marked $\frac{1}{4}$ S 36 in W. half, and 1915 in S. rim;

Chains

- and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor. Impracticable to dig pits or set cor. farther in the ground.
- 41.60 Ravine, course from N.15°E., to S.15°E.
- 44.70 Set an iron post, 3 ft. long, 1 in. diam., 18 ins. in the ground and 8 ins. in a mound of stone, for reestablished $\frac{1}{4}$ sec. cor. pertaining to sec. 31, with brass cap, marked $\frac{1}{4}$ S 31 in E. half, and 1915 in S. rim; and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, E. of cor. Impracticable to dig pits or set cor. farther in the ground.
- 58.00 Top of ridge, 260 ft. above ravine noted at 39.00 chs., bears NW. and SE.; desc. NE. slope 325 ft. to
- 80.00 Set an iron post, 3 ft. long, 3 ins. diam., 10 ins. in the ground and 14 ins. in a mound of stone, for reestablished cor. of secs. 25 and 36, with brass cap, marked T 23 N S 25 in NW., and S 36 R 20 W in SW. quadrant; and 1915 in S. rim; and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor. Impracticable to dig pits or set cor. farther in the ground.
- Land, mountainous.
Soil, rocky; 4th rate.
No timber.
Undergrowth, greasewood, catclaw, juniper and yucca.
-
- North, on E. bdy. of sec. 25, over mountainous land, through scattering undergrowth. Desc. NE. slope 80 ft. to
- 4.10 Gulch, course SE.
- 4.70 Set an iron post, 3 ft. long, 3 ins. diam., 24 ins. in the ground, for reestablished cor. of secs. 30 and 31, with brass cap, marked T 23 N S 30 in NE., and S 31 R 19 W in SE. quadrant; and 1915 in S. rim; and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, E. of cor.
- Asc. on SW. slope.
- 13.30 Spur slopes S.35°E.; asc. on SE. slope.
- 24.75 Head of ravine, course S.25°E.; asc. SW. slope.
- 35.20 Ravine, course SW.; continue ascent on SW. slope.
- 38.55 Thence across W. slope.
- 40.00 220 ft. above gulch noted at 4.10 chs., Set an iron post, 3 ft. long, 1 in. diam., 10 ins. in the ground and 16 ins. in a mound of stone, for reestablished $\frac{1}{4}$ sec. cor. pertaining to sec. 25, with brass cap, marked $\frac{1}{4}$ S 25 in W. half, and 1915 in S. rim; and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor. Impracticable to dig pits or set cor. farther in the ground.
- 42.80 Ravine, course W.; continue along W. slope.
- 44.70 Set an iron post, 3 ft. long, 1 in. diam., 18 ins. in the ground, and 8 ins. in a mound of stone, for reestablished $\frac{1}{4}$ sec. cor. pertaining to sec. 30, with brass cap, marked $\frac{1}{4}$ S 30 in E. half, and 1915 in S. rim; and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, E. of cor. Impracticable to dig pits or set cor. farther in the ground.
- 62.95 Thence along E. side of ravine, course S.10°W.
- 73.75 Top of ridge, 150 ft. above ravine, bears NW. and S.20°E.; asc. SE. slope.
- 80.00 Set an iron post, 3 ft. long, 3 ins. diam., in a mound of stone, for reestablished cor. of secs. 24 and 25, with brass cap, marked

Chains

T 23 N S 24 in NW., and
 S 25 R 20 W in SW. quadrant; and
 1915 in S. rim;
 and raise a mound of stone, 2 ft. base, 1½ ft. high,
 W. of cor. Impracticable to dig pits or set cor. in
 the ground.
 Land, mountainous.
 Soil, rocky; 4th rate.
 No timber.
 Undergrowth, greasewood, catclaw, juniper, cactus and yucca.

North, on E. bdy. of sec. 24,
 over mountainous land, through scattering undergrowth.
 Top of divide bears NE. and SW.; thence over W. slope.
 .60
 4.70 Set an iron post, 3 ft. long, 3 ins. diam., 24 ins. in the
 ground, for ^{re-established} cor. of secs. 19 and 30, with brass cap,
 marked
 T 23 N S 19 in NE., and
 S 30 R 19 W in SE. quadrant; and
 1915 in S. rim;
 and raise a mound of stone, 2 ft. base, 1½ ft. high,
 E. of cor.
 14.90 Head of ravine, course NW.
 17.90 Spur extends NW.; desc. NE. slope 100 ft. to
 23.75 Ravine, course NW.; asc. SW. slope 50 ft. to
 30.60 Desc. NW. slope 150 ft. to
 36.90 Same ravine, course NE.; asc. SE. slope 20 ft. to
 40.00 Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the
 ground, for ^{re-established} ¼ sec. cor. pertaining to sec. 24, with
 brass cap, marked
 ¼ S 24 in W. half, and
 1915 in S. rim;
 and raise a mound of stone, 2 ft. base, 1½ ft. high,
 W. of cor.
 44.70 Set an iron post, 3 ft. long, 1 in. diam., 18 ins. in the
 ground and 8 ins. in a mound of stone, for ^{re-established} ¼ sec. cor.
 pertaining to sec. 19, with brass cap, marked
 ¼ S 19 in E. half, and
 1915 in S. rim;
 and raise a mound of stone, 2 ft. base, 1½ ft. high,
 E. of cor. Impracticable to dig pits or set cor. far-
 ther in the ground.
 Asc. across E. slope, over broken cliffs 115 ft. to
 51.80 Desc. over broken cliffs, 125 ft. to
 56.40 Thence asc. along E. slope of ridge.
 65.90 Head of gulch, course S.35°E.; asc. S. slope.
 70.35 Ridge, 180 ft. above station at 56.40 chs., bears E. and W.;
 desc. NW. slope 215 ft. to
 80.00 Set an iron post, 3 ft. long, 3 ins. diam., 24 ins. in the
 ground, for ^{re-established} cor. of secs. 13 and 24, with brass cap,
 marked
 T 23 N S 13 in NW., and
 S 24 R 20 W in SW. quadrant; and
 1915 in S. rim;
 and raise a mound of stone, 2 ft. base, 1½ ft. high,
 W. of cor.
 Land, mountainous.
 Soil, rocky; 4th rate.
 No timber.
 Undergrowth, greasewood, catclaw, juniper, yucca and cactus.
 May 6, 1915.

May 12, 1915.
 North, on E. bdy. of sec. 13,
 over mountainous land, through scattering undergrowth.
 Desc. NW. slope.

Chains

- 4.70 Set an iron post, 3 ft. long, 3 ins. in diam., 10 ins. in the ground and 14 ins. in a mound of stone, ^{reestablished} for \wedge cor. of secs. 18 and 19, with brass cap, marked
T 23 N S 18, in NE., and
S 19 R 19 W in SE. quadrant; and
1915 in S. rim;
and raise a mound of stone, 2 ft. base, 1½ ft. high, E. of cor. Impracticable to dig pits or set cor. farther in the ground.
- 9.50 Ravine, 90 ft. below sec. cor., course W. for 150 lks., and thence NW.; asc. SW. slope.
- 21.10 Top of spur, 100 ft. above ravine, extends N.60°W.; desc. N. slope 60 ft. to
- 25.70 Asc. W. slope 35 ft. to
- 29.65 Top of spur extends N.25°W.; desc. NE. slope 140 ft. to
- 40.00 Set an iron post, 3 ft. long, 1 in. diam., 10 ins. in the ground, and 16 ins. in a mound of stone, ^{reestablished} for \wedge sec. cor. pertaining to sec. 13, with brass cap, marked
½ S 13 in W. half, and
1915 in S. rim;
and raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor. Impracticable to dig pits or set cor. farther in the ground.
- 44.70 Set an iron post, 3 ft. long, 1 in. diam., 12 ins. in the ground and 14 ins. in a mound of stone, ^{reestablished} for \wedge sec. cor. pertaining to sec. 18, with brass cap, marked
¼ S 18 in E. half, and
1915 in S. rim;
and raise a mound of stone, 2 ft. base, 1½ ft. high, E. of cor. Impracticable to dig pits or set cor. farther in the ground.
- 55.50 House bears W., about 3.20 chs. dist.
- 58.70 Wash, 180 ft. below ¼ sec. cor. of sec. 13, 100 lks. wide, course E.; asc. SE. slope.
- 62.00 Road from Burns Spring to Chloride bears N.70°E. and S.65°W.
- 65.20 Barn bears E., 140 lks. dist.
- 66.30 O'Day's house bears E., 2 chs. dist.
- 66.95 Empty house bears W., 8 lks. dist.
- 69.10 Road to mine bears NW. and SE.
- 71.50 Shaft bears W. 35 lks. dist.
- 73.05 Spur slopes SE.
- 76.45 Tunnel bears W. 2 chs. dist.
- 80.00 Set an iron post, 3 ft. long, 3 ins. diam., 24 ins. in the ground, ^{reestablished} for \wedge cor. of secs. 12 and 13, with brass cap, marked
T 23 N S 12 in NW., and
S 13 R 20 W in SW. quadrant; and
1915 in S. rim;
and raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor. Shaft of "Pilgrim" mine bears W., about 3 chs. Land, mountainous.
Soil, rocky; 4th rate.
No timber.
Undergrowth, greasewood, catclaw, juniper, yucca and cactus.

- 4.70 North, on E. bdy. of sec. 12, across rolling foothills, through scattering undergrowth. Line runs along E. slope.
Set an iron post, 3 ft. long, 3 ins. diam., 24 ins. in the ground, ^{reestablished} for \wedge cor. of secs. 7 and 18, with brass cap, marked
T 23 N S 7 in NE.,
S 18 R 19 W in SE. quadrant; and
1915 in S. rim;
and raise a mound of stone, 2 ft. base, 1½ ft. high, E. of cor.
- 8.00 Spur extends E.; desc. gradually on NE. slope.
- 40.00 Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the

Chains

ground, for $\frac{1}{4}$ sec. cor. pertaining to sec. 12, with brass cap, marked
 $\frac{1}{4}$ S 12 in W. half, and
 1915 in S. rim;
 and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor.

44.70 Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the ground, for $\frac{1}{4}$ sec. cor. pertaining to sec. 7, with brass cap, marked
 $\frac{1}{4}$ S 7 in E. half, and
 1915 in S. rim;
 and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, E. of cor.

50.00 Wash, 175 ft. below spur at 8.00 chs., 100 lks. wide, course E. for 2.50 chs. and thence N.; thence across E. slope.

67.50 Asc. SE. slope 35 ft. to
 77.00 Spur extends E.; desc. gradually to
 80.00 Set an iron post, 3 ft. long, 3 ins. diam., 24 ins. in the ground, for reestablished cor. of secs. 1 and 12, with brass cap, marked
 T 23 N S 1 in NW., and
 R 20 W S 12 in SW. quadrant; and
 1915 in S. rim;
 and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor.

Land, rolling foothills.
 Soil, gravelly and stony; 4th rate.
 No timber.
 Undergrowth, greasewood, catclaw, yucca and cactus.

North on E. bdy. of sec. 1,
 over low foothills, through scattering undergrowth.

4.70 Set an iron post, 3 ft. long, 3 ins. diam., 24 ins. in the ground, for reestablished cor. of secs. 6 and 7, with brass cap, marked
 T 23 N S 6 in NE., and
 S 7 R 19 W in SE. quadrant; and
 1915 in S. rim;
 and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, E. of cor.

19.00 Broad topped low spur extends N. 20° E.
 40.00 Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the ground, for reestablished $\frac{1}{4}$ sec. cor. pertaining to sec. 1, with brass cap, marked
 $\frac{1}{4}$ S 1 in W. half, and
 1915 in S. rim;
 and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor.

44.70 Thence over gently sloping plain.
 Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the ground, for reestablished $\frac{1}{4}$ sec. cor. pertaining to sec. 6, with brass cap, marked
 $\frac{1}{4}$ S 6 in E. half, and
 1915 in S. rim;
 and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, E. of cor.

47.00 End of point of low spur extending N., bears E., 6 chs. dist.

80.00 Set an iron post, 3 ft. long, 3 ins. diam., 24 ins. in the ground, for reestablished cor. of Tps. 23 and 24 N., R. 20 W., with brass cap, marked
 T 24 N R 20 W S 36 in NW., and
 S 1 T 23 N in SW. quadrant; and
 1915 in S. rim;
 and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor.

Land, low foothills for S. half and plain for N. half.
 Soil, gravelly and stony; 4th rate.
 No timber. Undergrowth, greasewood, catclaw, yucca and cactus.
 May. 12, 1915.

Chains

None of the old corners were found by me on the range line in this township.

E.O.L.

Subdivision of T. 23 N., R. 20 W.

E.O.L.

May 7, 1915.

I begin at the cor. of secs. 1, 2, 35 and 36, on S. bdy., of Tp., which is an iron post, 3 ins. diam., with brass cap, set, marked and witnessed as described by the surveyor general.

Thence I run

N.0°01'W., bet. secs. 35 and 36,
over mountainous land, through scattering undergrowth.
Asc. SW. slope

10.45 Spur, 80 ft. above sec. cor., extends NW.; desc. N. slope.
22.20 Ravine, 185 ft. below spur, course NW.; thence along W. slope.

33.00 Gulch, course W.

38.70 Gulch, course SW. for 6 chs. and thence NW.; thence asc. SE. slope.

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

$\frac{1}{4}$ in N.,
S 35 in W., and
S 36 in E. half; and
1915 in S. rim;

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

59.80 Asc. SE. slope 250 ft. to
Ridge bears E. and W. (in saddle); desc. NE. slope.

73.10 Desc. over broken cliffs, on NE. slope.

80.00 250 ft. below ridge at 59.80 chs.,
Set an iron post, 3 ft. long, 2 ins. diam., 18 ins. in the ground and 6 ins. in a mound of stone, for cor. of secs. 25, 26, 35 and 36, with brass cap, marked

T 23 N S 26 in NW.,
R 20 W S 25 in NE.,
S 36 in SE., and
S 35 in SW. quadrant; and
1915 in S. rim;

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

Land, mountainous.

Soil, rocky; 4th rate.

No timber.

Undergrowth, greasewood, catclaw, juniper, yucca and cactus.

40.00 East, on a random line, bet. secs. 25 and 36.

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

Intersect. E. bdy. of Tp, 2 lks. S. of the reestablished Cor of secs. 25 and 36, hereinbefore described.

Thence I run

S.89°59'W., on a true line, bet. secs. 25 and 36,
over mountainous land, through scattering undergrowth.

Asc. E. slope 40 ft. to

1.35 Low spur slopes N.

4.35 Gulch, course N.; asc. E. slope 330 ft. to

Chains

22.00 Spur slopes N.; desc. 60 ft. to
 26.85 Gulch, the head of which is 5 chs. S. of line, course
 N.5°W.; asc. E. slope 25 ft. to
 30.00 Small spur extends NW.
 40.07 Set an iron post, 3 ft. long, 1 in. diam., 10 ins. in the
 ground and 16 ins. in a mound of stone, for $\frac{1}{4}$ sec. cor.,
 with brass cap, marked
 $\frac{1}{4}$ S 25 in N. half,
 S 36 in S. half, and
 1915 in S. rim;
 and raise a mound of stone, 2 ft. base, 1 $\frac{1}{2}$ ft. high,
 N. of cor. Impracticable to dig pits or set cor. far-
 ther in the ground.
 41.00 Head of ravine, course NE. for 12 chs. and thence SE.; asc.
 42.60 Low divide bears N. and S.
 44.00 Ravine, course N.40°E. for 3 $\frac{1}{2}$ chs. and thence NW.
 49.80 Summit of ascent, on high spur, 100 ft. above ravine at
 41.00 chs.; spur extends N.; desc. W. slope.
 60.60 Thence on SW. slope
 71.45 Gulch, 325 ft. below spur, course N.85°W.; asc. NE. slope
 60 ft. to
 80.14 The cor. of secs. 25, 26, 35 and 36.
 Land, mountainous.
 Soil, gravelly and rocky; 4th rate.
 No timber.
 Undergrowth, greasewood, catclaw, juniper, yucca and
 cactus.

May 7, 1915.

 May 11, 1915.

N.0°01'W., bet secs. 25 and 26,
 over mountainous land, through scattering undergrowth,
 Desc. NE. slope 60 ft. to
 3.95 Wash, 8 lks wide, course NW. 3 chs., and thence W.; asc.
 SW. slope 300 ft. to
 16.47 Spur slopes W.; desc. NW. slope 90 ft. to
 24.90 Thence across W. slope.
 33.90 Asc. SW. slope.
 40.00 Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the
 ground, for $\frac{1}{4}$ sec. cor., with brass cap, marked
 $\frac{1}{4}$ in N.,
 S 25 in E., and
 S 26 in W. half; and
 1915 in S. rim;
 and raise a mound of stone, 2 ft. base, 1 $\frac{1}{2}$ ft. high,
 W. of cor.
 41.70 Summit of ascent, 140 ft. above station at 33.90 chs.,
 on spur extending W. to prominent butte.; descend NW.
 slope 160 ft. to
 57.43 Gulch, course S.70°W. for $\frac{1}{4}$ chs. and thence N.60°W.;
 Asc. SW. slope.
 75.07 Discovery shaft of mining claim on line.
 77.75 Summit of ascent, 460 ft. above gulch, on spur sloping
 W.
 80.00 Set an iron post, 3 ft. long, 2 ins. diam., 6 ins. in the
 ground, and 18 ins. in a mound of stone, for cor. of
 secs. 23, 24, 25 and 26, with brass cap, marked
 T 23 N S 23 in NW.,
 R 20 W S 24 in NE.,
 S 25 in SE., and
 S 26 in SW. quadrant; and
 1915 in S. rim;
 and raise a mound of stone, 2 ft. base, 1 $\frac{1}{2}$ ft. high,
 W. of cor. Impracticable to dig pits or set cor. far-
 ther in the ground.
 Land; mountainous.
 Soil, rocky; 4th rate. No timber.
 Undergrowth, greasewood, catclaw, juniper, cactus and yucca.

Chains	
	East, on a random line, bet. secs. 24 and 25.
40.00	Set temp. $\frac{1}{4}$ sec. cor.
80.20	Intersect E. bdy. of Tp. 14 lks. N. of the reestablished cor. of secs. 24 and 25, hereinbefore described.
	Thence I run
	N. $89^{\circ}54'W.$, on a true line, bet. secs. 24 and 25, over mountainous land, through scattering undergrowth.
	Asc. SE. slope to
.90	Ridge bears NE. and SW.; thence desc. along N. slope.
8.00	Thence on NW. slope.
11.90	Ravine, 115 ft. below ridge, course N. $20^{\circ}W.$; (heads 8 chs. S. of line). Asc. NE. slope.
22.26	Ravine, course N. $20^{\circ}E.$ (heads 1 chs. SW. of this point); Asc. E. slope.
28.50	Ridge, 250 ft. above ravine at 11.90 chs., bears N. and S. Desc. steep W. slope 275 ft. to
38.40	Gulch, course N.; asc. steep E. slope.
40.10	Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the ground, for $\frac{1}{4}$ sec. cor., with brass cap, marked
	$\frac{1}{4}$ S 24 in N. half,
	S 25 in S. half, and
	1915 in S. rim;
	and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, N. of cor.
47.75	Summit of ascent, on spur 270 ft. above gulch, sloping N.; desc. W. slope 135 ft. to
54.65	Ravine, course N.; (heads 3 chs. S. of line); asc. 50 ft. to
57.77	Top of spur slopes N. $15^{\circ}W.$; desc. W. slope 100 ft. to
61.50	Gulch, course N. (gulch heads 8 chs. S.); asc. E. slope 400 ft. to
79.30	Top of ridge bears N. and S.; desc. NW. slope 20 ft. to
80.20	The cor. of secs. 23, 24, 25 and 26.
	Land, mountainous.
	Soil, rocky; 4th rate.
	No timber.
	Undergrowth, greasewood, catclaw, juniper, yucca, cactus.

	N. $0^{\circ}01'W.$, bet. secs. 23 and 24, over mountainous land, through scattering undergrowth. Desc. steep, rocky NW. slope, over ledges.
10.60	Thence on W. slope.
17.70	Top of rocky reef slopes N. $15^{\circ}E.$
	House bears N. $73\frac{1}{2}^{\circ}E.$, about 30 chs. dist.
	Tunnel bears N. $76^{\circ}E.$, about 10 chs. dist.
	Tunnel bears N. $88\frac{1}{2}^{\circ}E.$, about 11 chs. dist.
	Desc. NW. slope.
23.60	Thence on N. slope.
37.60	Ft. of descent, in wash, 800 ft. below sec. cor., 40 lks. wide, course NW.; asc. SW. slope 15 ft. to
40.00	Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the ground, for $\frac{1}{4}$ sec. cor., with brass cap, marked
	$\frac{1}{4}$ in N.,
	S 23 in W., and
	S 24 in E. half; and
	1915 in S. rim;
	and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor.
41.50	Desc. NW. slope 50 ft. to
47.40	Wash, 10 lks. wide, course N. $60^{\circ}W.$; asc. SW. slope 175 ft. to
56.30	Summit of ascent, on rocky butte, which bears N. $20^{\circ}W.$ and SE.; desc. N. slope 220 ft. to
67.05	Ravine, course NW.; asc. SW. slope.
73.90	Desc. NW. slope 25 ft. to
80.00	Set an iron post, 3 ft. long, 2 ins. diam., 24 ins. in the ground, for cor. of secs. 13, 14, 23 and 24, with brass cap, marked

Chains

T 23 N S 14 in NW.,
R.20 W S 13 in NE.,
S 24 in SE., and
S 23 in SW. quadrant; and
1915 in S. rim;

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

Land, mountainous.

Soil, rocky; 4th rate.

No timber.

Undergrowth, greasewood, juniper, catclaw and cactus.

- 40.00 East, on a random line, bet. secs. 13 and 24.
- 80.08 Set temp. ¼ sec. cor.
- Intersect E. bdy. of Tp. 12 lks. N. of the reestablished cor. of secs. 13 and 24, hereinbefore described.
- Thence I run N. 89° 55' W., on a true line, bet. secs. 13 and 24, over mountainous land, through scattering undergrowth. Asc. S. slope 90 ft. to
- 1.50 Gulch, course N. for 8 chs., and thence NW.; asc. NE. slope.
- 5.30 Thence over N. slope.
- 10.20 Spur extends NW.; desc. NW. slope 200 ft. to
- 20.75 Ravine, course N. 25° W.; asc. 25 ft. to
- 22.90 Spur extends N.; desc. 50 ft. to
- 25.10 Gulch, course N.; asc.
- 35.30 Old road from mining prospect to Chloride bears N. and S.
- 40.04 Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the ground, for ¼ sec. cor., with brass cap, marked
¼ S 13 in N. half,
S 24 in S. half, and
1915 in S. rim;
and raise a mound of stone, 2 ft. base, 1½ ft. high, N. of cor.
- 45.10 Ridge, 360 ft. above gulch, bears N. and S.; desc. W. slope 425 ft. to
- 61.80 Gulch, course NW.; asc. NE. slope 40 ft. to
- 65.30 Thence desc. 150 ft. to
- 80.08 The cor. of secs. 13, 14, 23 and 24.
Land, mountainous.
Soil, rocky; 4th rate.
No timber.
Undergrowth, greasewood, catclaw, juniper, yucca and cactus.

May 11, 1915.
E. O. L.

G. H. R.

Jan. 7, 1916.

At the cor. of secs. 13, 14, 23, and 24, I set off 35° 22½' on the lat arc. and 22° 26½' S. on the decl. arc., and at 8h 30m a.m., l.m.t., determine a meridian with the solar.

Thence I run

N. 0° 01' W., bet. secs. 13 and 14, over rolling mountainous land, through scattering undergrowth, along broken W. slope.

- 40.00 Set an iron post, 3 ft. long, 1 in. diam., 14 ins. in the ground and 12 ins. in a mound of stone, for ¼ sec. cor., with brass cap, marked

¼ in N.,
S 13 in E., and
S 14 in W. half; and
1916 in S. rim; and

and raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor. Impracticable to dig pits or set cor. farther in the ground.

Chains

- 48.70 Road, bears E. and SW.
 69.95 Wash, 10 lks. wide, course W.; asc.
 80.00 Set an iron post, 3 ft. long, 2 ins. diam., 10 ins. in the ground and 14 ins. in a mound of stone, for cor. of secs. 11, 12, 13 and 14, with brass cap, marked
 T 23 N S 11 in NW.,
 R 20 W. S 12 in NE.,
 S 13 in SE., and
 S 14 in SW. quadrant; and
 1916 in S. rim;
 and raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor. Impracticable to dig pits or set cor. farther in the ground.
 Land, mountainous.
 Soil, rocky; 4th rate.
 No timber.
 Undergrowth, cactus, catclaw, juniper and sage.
-
- 40.00 East, on a random line, bet. secs. 12 and 13.
 Set temp $\frac{1}{4}$ sec. cor.
 80.20 Intersect E. bdy of TP. 13 lks. N. of the reestablished cor. of secs. 12 and 13, hereinbefore described.
 Thence I run
 N. 89°54' W., on a true line, bet. secs. 12 and 13, over mountainous land, through scattering undergrowth. Asc. broken E. slope.
 2.65 Discovery shaft of Pilgrim mining claim bears N., 141 lks. dist.
 30.80 Ridge, 400 ft. above sec. cor., bears N. and S.; desc.
 40.10 Set an iron post, 3 ft. long, 1 in. diam., in a mound of stone, for $\frac{1}{4}$ sec. cor., with brass cap, marked
 $\frac{1}{4}$ S 12 in N. half,
 S 13 in S. half, and
 1916 in S. rim;
 and raise a mound of stone, 2 ft. base, 1½ ft. high, N. of cor. Impracticable to dig pits or set cor. in the ground.
 55.50 Wash, 6 lks. wide, course S.; (420 ft. below ridge).
 Asc. SE. slope 75 ft. to
 62.10 Point of spur extends S.; desc. W. slope 125 ft. to
 80.20 The cor. of secs. 11, 12, 13 and 14.
 Land, mountainous.
 Soil, rocky; 4th rate.
 Timber, none.
 Undergrowth, cactus, catclaw, juniper and sagebrush.
-
- N. 0°01' W., bet. secs. 11 and 12,
 over rolling mountainous land, through scattering undergrowth.
 Asc. SW. slope 170 ft. to
 16.30 Spur extends W.; desc NW. slope 130 ft. to
 24.47 Head of draw, course W.; asc. SW. slope.
 40.00 Set an iron post, 3 ft. long, 1 in. diam., in a mound of stone, for $\frac{1}{4}$ sec. cor., with brass cap, marked
 $\frac{1}{4}$ in N.,
 S 11 in W., and
 S 12 in E. half; and
 1916 in S. rim;
 and raise a mound of stone, 3 ft. base, 1½ ft. high, W. of cor. Impracticable to dig pits or set cor. in the ground.
 At this cor. I set off 22°27' S. on the decl. arc. and at apparent noon observe the sun on the meridian; the resulting latitude is 35°24'.
 46.80 Point of spur, 350 ft. above draw, extends W.; desc. NE. slope 190 ft. to

Chains

59.50 Head of ravine, course W.; asc. broken SW. slope 130 ft. to
 80.00 Set an iron post, 3 ft, long, 2 ins. in diam., 15 ins. in the ground and 9 ins. in a mound of stone, for cor. of secs. 1, 2, 11 and 12, with brass cap, marked
 T 23 N S 2 in NW.,
 R 20 W S 1 in NE.,
 S 12 in SE., and
 S 11 in SW. quadrant; and
 1916 in S. rim;
 and raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor. Impracticable to dig pits or set cor. farther in the ground.
 Land, mountainous.
 Soil, rocky, 4th rate.
 No timber.
 Undergrowth, catclaw, sage and juniper.

40.00 East, on a random line, bet. secs. 1 and 12.
 80.26 Set temp. ¼ sec. cor.
 Intersect E. bdy. of Tp. 20 lks. N. of the reestablished cor. of secs. 1 and 12, hereinbefore described.
 Thence I run
 N. 89° 51' W., on a true line, bet. secs. 1 and 12, over mountainous land, through scattering undergrowth.
 Desc. 60 ft. to

10.25 Wash, 12 lks. wide, course NE.
 40.13 Set an iron post, 3 ft, long, 1 in. diam., 8 ins. in the ground and 18 ins. in a mound of stone, for ¼ sec. cor., with brass cap, marked
 ¼ S 1 in N. half,
 S 12 in S. half, and
 1916 in S. rim;
 and raise a mound of stone, 2 ft. base, 1½ ft. high, N. of cor. Impracticable to dig pits or set cor. in the ground.

68.65 Asc. E slope 545 ft. to
 80.26 Ridge bears NW. and S.; desc. 260 ft. to
 The cor. of secs. 1, 2, 11 and 12.
 Land, mountainous.
 Soil, rocky, 4th rate.
 No timber.
 Undergrowth, cactus, catclaw, sage and juniper.

40.00 N. 0° 01' W., on a random line, bet. secs. 1 and 2.
 79.84 Set temp. ¼ sec. cor.
 Intersect N. bdy. of Tp. 23 lks. W. of the cor. of secs. 1, 2, 35 and 36, described in Book "A".
 Thence I run
 S. 0° 09' W., on a true line, bet. secs. 1 and 2, over mountainous land, through scattering undergrowth.
 Asc. NE. slope.

30.15 Wash, 12 lks. wide, course NE.
 39.84 Set an iron post, 3 ft. long, 1 in. diam., 15 ins. in the ground, and 11 ins. in a mound of stone, for ¼ sec. cor., with brass cap, marked
 ¼ in N.,
 S 1 in E., and
 S 2 in W. half; and
 1916 in S. rim;
 and raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor. Impracticable to dig pits or set cor. in the ground.

50.90 Ridge, 740 ft. above sec. cor., bears NW. and SE.; desc.
 79.84 broken SW. slope 210 ft. to
 The cor. of secs. 1, 2, 11 and 12.

Chains

Land, mountainous.
Soil, rocky; 4th rate.
No timber.
Undergrowth, catclaw, sage, juniper, palo verde and Spanish dagger.

Jan. 7, 1916.
G. H. R.

E. O. L.
May 7, 1915.
From the cor. of secs. 2, 3, 34 and 35, on S. bdy. of Tp., which is an iron post, 3 ins. diam., with brass cap, set, marked and witnessed as described by the surveyor general, I run N.0°01'W., bet. secs. 34 and 35, over rolling mountainous land, through scattering undergrowth.

- 3.50 Gulch, course N.80°W. for 3 chs. and thence NW.; asc. S. slope.
 - 9.00 Asc. on SW. slope.
 - 15.95 Low spur slopes NW.
 - 19.95 70 ft. above gulch; desc. NE. slope 60 ft. to
 - 27.15 Ravine, course NW.; thence over W. slope.
 - 33.60 Head of ravine, course W.; asc. SW. slope 60 ft. to
 - 40.00 Set an iron post, 3 ft. long, 1 in. diam., in a mound of stone, for $\frac{1}{4}$ sec. cor., with brass cap, marked $\frac{1}{4}$ in N., S 34 in W., and S 35 in E. half; and 1915 in S. rim; and raise a mound of stone, 2 ft. base, 1 $\frac{1}{2}$ ft. high, W. of cor. Impracticable to dig pits or set cor. in the ground. Cor. is on small ridge bearing N.65°W., and E.; desc. NE. slope gradually.
 - 52.75 Gulch, course N.5°W.; desc. along E. side of same.
 - 63.00 Wash from same gulch, course N.5°E. (width 10 lks.)
 - 68.30 Same wash, course N.10°W.
 - 71.60 Same wash, course N.10°E.
 - 80.00 200 ft. below $\frac{1}{4}$ sec. cor., Set an iron post, 3 ft. long, 2 ins. diam., 24 ins. in the ground, for cor. of secs. 26, 27, 34 and 35; with brass cap, marked T 23 N S 27 in NW., R 20 W S 26 in NE., S 35 in SE., and S 34 in SW. quadrant; and 1915 in S. rim; dig pits, 18x18x12 ins., in each section, 5 $\frac{1}{2}$ ft. dist., and raise a mound of earth, 4 ft. base, 2 ft. high, W. of cor., whence a juniper, 8 ins. diam., marked T 23 N R 20 W S 35 BT, bears S.18°45'E., 125 lks. dist. No other bearing trees within limits.
- Land, rolling and rolling mountainous.
Soil, rocky; 4th rate.
No timber.
Undergrowth, juniper, greasewood, catclaw, yucca, cactus and sage.

- 40.00 S. 89°56' East, on a random line, bet. secs. 26 and 35. Set temp. $\frac{1}{4}$ sec. cor.
- 80.12 Intersect N. & S. line 10 lks. N. of cor. of secs. 25, 26, 35 and 36. Thence I run N.89°56'W., on a true line, bet. secs. 26 and 35, over rolling mountainous land, through scattering undergrowth. Asc. on NE. slope 25 ft. to

Chains

1.60 Thence over N. slope.
 5.40 Desc. on NW. slope 140 ft. to
 22.17 Gulch, course S.65°W.; asc. SE. slope.
 25.17 Thence across S. slope.
 40.06 Set an iron post, 3 ft. long, 1 in. diam., 15 ins. in the
 ground and 11 ins. in a mound of stone, for $\frac{1}{4}$ sec. cor.,
 with brass cap, marked
 $\frac{1}{4}$ S 26 in N. half,
 S 35 in S. half; and
 1915 in S. rim;
 and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high,
 N. of cor. Impracticable to dig pits or set cor. farther
 in the ground.
 51.00 Wash, 25 lks. wide, course NW.
 63.77 Ravine, course N.20°E.; asc. 75 ft. to
 74.10 Summit of ascent on spur extending N.; desc. W. slope 65
 ft. to
 79.55 Wash, 10 lks. wide, course N.10°E.
 80.12 The cor. of secs. 26, 27, 34 and 35.
 Land, rolling mountainous and rolling.
 Soil, rocky; 4th rate.
 No timber.
 Undergrowth, catclaw, greasewood, juniper, yucca and
 cactus.

May 7, 1915.

 May 8, 1915.

N.0°01'W., bet. secs. 26 and 27.
 Asc. gradually on SE. slope, through scattering under-
 growth.
 2.45 Road from Burro Springs to Chloride bears N.25°E., and
 S.20°W.
 15.00 Ravine, course NE.
 20.70 Same road bears N.30°W., and S.30°E.
 24.45 Ravine, course N.30°W.; asc. SW. slope 85 ft. to
 34.85 Spur extends W.; desc. NW. slope.
 40.00 On top of spur extending N.30°W.,
 Set an iron post, 3 ft. long, 1 in. diam., 8 ins. in the
 ground and 18 ins. in a mound of stone, for $\frac{1}{4}$ sec. cor.,
 with brass cap, marked
 $\frac{1}{4}$ in N.,
 S 26 in E., and
 S 27 in W. half; and
 1915 in S. rim;
 and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high,
 W. of cor. Impracticable to dig pits or set cor. farther
 in the ground.
 46.30 Ravine, course N.10°W.; thence over W. slope.
 54.90 Same ravine, 150 ft. below spur, course N.35°E. Thence
 across SE. slope.
 56.60 Same road bears NE. and S.30°W.
 59.90 Thence across E. slope.
 76.85 Thence on NE. slope.
 80.00 Set an iron post, 3 ft. long, 2 ins. diam., 24 ins. in the
 ground for cor. of secs. 22, 23, 26 and 27, with brass
 cap, marked
 T 23 N., S 22 in NW.,
 R 20 W S 23 in NE.,
 S 26 in SE., and
 S 27 in SW. quadrant;
 and 1915 in S. rim;
 and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high,
 W. of cor.
 Land, roughly rolling.
 Soil, stony; 4th rate.
 No timber.
 Undergrowth, greasewood, catclaw, juniper, yucca and
 cactus.

Chains

East, on a random line, bet. secs. 23 and 26.
 40.00 Set temp. $\frac{1}{4}$ sec. cor.
 80.14 Intersect N. and S. line 16 lks. N. of the cor. of secs. 23, 24, 25 and 26.
 Thence I run
 N. $89^{\circ}53'W.$, on a true line, bet. secs. 23 and 26, over mountainous land, through scattering undergrowth. Desc. SW. slope.
 3.60 Spur extends NW.
 40.07 Set an iron post, 3 ft. long, 1 in. diam., 14 ins. in the ground and 12 ins. in a mound of stone, for $\frac{1}{4}$ sec. cor., with brass cap, marked
 $\frac{1}{4}$ S 23 in N. half,
 S 26 in S. half; and
 1915 in S. rim;
 and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, N. of cor. Impracticable to dig pits or set cor. farther in the ground.
 47.85 Wash, 670 ft. below sec. cor., 12 lks. wide, course NW.
 51.35 Spur slopes NW.; thence over N. slope.
 64.65 Spur slopes NW.; desc. gradual W. slope 60 ft. to
 75.20 Wash, 10 lks. wide, course N. $10^{\circ}W.$
 79.40 Road from Burro Springs to Chloride bears N. and S.
 80.14 The cor. of secs. 22, 23, 26 and 27.
 Land, mountainous in E. 50 chs., and rolling in W. portion.
 Soil, sandy clay loam in W. and stony in E.; 4th rate.
 No timber.
 Undergrowth, cedar and greasewood.

May 8, 1915.

 May 13, 1915.

N. $0^{\circ}01'W.$, bet. secs. 22 and 23.
 Desc. gradually on N. slope, through scattering undergrowth.
 4.00 Road from Burro Springs to Chloride bears N. $15^{\circ}W.$, and S. $15^{\circ}E.$
 7.60 Same road bears N. $25^{\circ}E.$ and S. $25^{\circ}W.$; at crossing of wash, 40 lks. wide, course N. $15^{\circ}W.$
 21.50 Wash, 3 lks. wide, course from N. $80^{\circ}E.$ to NW.
 25.00 Asc. SW. slope 100 ft. to
 36.60 Spur extends W.; desc. N. slope.
 40.00 Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the ground, for $\frac{1}{4}$ sec. cor., with brass cap, marked
 $\frac{1}{4}$ in N.,
 S 22 in W., and
 S 23 in E. half; and
 1915 in S. rim;
 and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor.
 48.90 Ravine, 140 ft. below spur, course NW.; asc. SW. slope 30 ft. to
 Thence across W. slope.
 52.90 Spur extends NW.; desc. NW. slope 60 ft. to
 66.90 Ravine from E., course NW.; asc. gradually.
 76.35
 80.00 Set an iron post, 3 ft. long, 2 ins. diam., 24 ins. in the ground, for cor. of secs. 14, 15, 22 and 23, with brass cap, marked
 T 23 N. S 15 in NW.,
 R 20 W S 14 in NE.,
 S 23 in SE., and
 S 22 in SW. quadrant; and
 1915 in S. rim;
 and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor.
 Land, roughly rolling.
 Soil, gravelly and stony; 4th rate.
 No timber.
 Undergrowth, greasewood, cactus, catclaw and yucca.

Chains

- East, on a random line, bet. secs. 14 and 23.
 40.00 Set temp. $\frac{1}{4}$ sec. cor.
 80.20 Intersect N. and S. line 9 lks. N. of cor. of secs. 13,
 14, 23 and 24.
 Thence I run
 N. $89^{\circ}56'W.$, on a true line, bet. secs. 14 and 23,
 over roughly rolling land, through scattering undergrowth.
 4.65 Ravine, course N. $30^{\circ}W.$,
 7.35 Low spur extends NW.; desc. SW. slope 35 ft. to
 14.93 Ravine, N. $20^{\circ}W.$; asc. 40 ft. to
 23.40 Low spur extends NW. 30 chs. to valley; desc. 30 ft. to
 27.65 Wash, 15 lks. wide, course N. $30^{\circ}W.$
 35.55 Road from Burro Springs to Chloride bears N. $40^{\circ}E.$ and SW.;
 in bottom of ravine, course N.
 Asc. E. slope.
 40.10 Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the
 ground, for $\frac{1}{4}$ sec. cor., with brass cap, marked
 $\frac{1}{4}$ S 14 in N. half,
 S 23 in S. half; and
 1915 in S. rim;
 and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high,
 N. of cor.
 40.80 Low spur, 50 ft. above ravine, extends N. 10 chs. to val-
 ley; desc. W. slope 60 ft. to
 50.00 Shallow wash, 10 lks. wide, course N. $30^{\circ}W.$
 56.20 Top of divide bears NW. and SE. (low pass on ridge); thence
 on S. slope.
 80.20 The cor. of secs. 14, 15, 22 and 23.
 Land, roughly rolling.
 Soil, gravelly and stony; 4th rate.
 No timber.
 Undergrowth, catclaw, greasewood, juniper, yucca and
 cactus.

May 13, 1915.
 E. O. L.

H. P.

Jan. 7, 1916.

At 8h 30m a.m., l.m.t., I set off $35^{\circ}22\frac{1}{2}'$ on the lat arc;
 $22^{\circ}26\frac{1}{2}'$ S. on the decl. arc; and determine a meridian
 with the solar at the cor. of secs. 14, 15, 22 and 23.

Thence I run

N. $0^{\circ}01'W.$, bet. secs. 14 and 15,

over rolling land, through scattering undergrowth.

- 40.00 Set an iron post, 3 ft. long, 1 in. diam., 10 ins. in the
 ground and 16 ins. in a mound of stone, for $\frac{1}{4}$ sec. cor.
 with brass cap, marked

$\frac{1}{4}$ in N.,
 S 14 in E., and
 S 15 in W. half; and
 1916 in S. rim;

and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high,
 W. of cor. Impracticable to dig pits or set cor. far-
 ther in the ground.

- 52.30 Wash, 7 lks. wide, course NW.

- 80.00 Set an iron post, 3 ft. long, 2 ins. diam., 24 ins. in the
 ground, for cor. of secs. 10, 11, 14 and 15, with brass
 cap, marked

T 23 N S 10 in NW.,
 R 20 W S 11 in NE.,
 S 14 in SE., and
 S 15 in SW. quadrant; and
 1916 in S. rim;

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

Land, rolling.

Soil, sandy and rocky; 3rd and 4th rate.

No timber.

Undergrowth, greasewood, catclaw, juniper and cactus.

16

Subdivision of T. 23 N., R. 20mW.

Chains	East, on a random line, bet. secs. 11 and 14.
40.00	Set temp. $\frac{1}{4}$ sec. cor.
80.14	Intersect N. and S. line at the cor. of secs. 11, 12, 13 and 14. Thence I run
	West, on a true line, bet. secs. 11 and 14, over rolling land, through scattering undergrowth.
8.70	Wash, 10 lks. wide, course SW.
40.07	Set an iron post, 3 ft. long, 1 in. diam., 16 ins. in the ground and 10 ins. in a mound of stone, for $\frac{1}{4}$ sec. cor. with brass cap, marked $\frac{1}{4}$ S 11 in N. half, S 14 in S. half; and 1915 in S. rim; and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, N. of cor. Impracticable to dig pits or set cor. farther in the ground.
54.65	Wash, 15 lks. wide, course N.
80.14	The cor. of secs. 10, 11, 14 and 15. Land, rolling. Soil, rocky; 3rd and 4th rate. No timber. Undergrowth, greasewood, catclaw, cactus and juniper.

	N.0°01'W., bet. secs. 10 and 11, over rolling prairie, through scattering undergrowth.
31.70	Wash, 25 lks. wide, course NE.
40.00	Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the ground, for $\frac{1}{4}$ sec. cor., with brass cap, marked $\frac{1}{4}$ in N., S 10 in W., and S 11 in E. half; and 1916 in S. rim; and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor.
74.20	Wash, 25 lks. wide, course NW.
80.00	Set an iron post, 3 ft. long, 2 ins. diam., 24 ins. in the ground, for cor. of secs. 2, 3, 10 and 11, with brass cap, marked T 23 N S 3 in NW., R 20 W S 2 in NE., S 11 in SE., and S 10 in SW. quadrant; and 1916 in S. rim; and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor. Land, rolling prairie. Soil, sandy loam; 2nd and 3rd rate. No timber. Undergrowth, greasewood, catclaw and cactus.
	At this cor. I set off 22°27' S. on the decl. arc; and at apparent noon observe the sun on the meridian; the resulting lat. is 35°24'.

	East, on a random line, bet. secs. 2 and 11.
40.00	Set temp. $\frac{1}{4}$ sec. cor.
80.08	Intersect N. and S. line 7 lks. S. of the cor. of secs. 1, 2, 11 and 12. Thence I run
	S.89°57'W., on a true line, bet. secs. 2 and 11, over mountainous land, through scattering undergrowth. Esc. SW. slope.
6.25	Top of spur, slopes SW. Thence along N. slope.
26.45	Top of spur extends NW. Thence on W. slope.
40.04	Enter rolling prairie at foot of mountainous land, 425 ft. below sec. cor.

Chains

Set an iron post, 3 ft. long, 1 in. diam., 22 ins. in the ground and 4 ins. in a mound of stone, for $\frac{1}{4}$ sec. cor., with brass cap, marked
 $\frac{1}{4}$ S 2 in N. half,
 S 11 in S. half, and
 1916 in S. rim;
 and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, N. of cor. Impracticable to dig pits or set cor. farther in the ground.

50.00 Wash, course N.
 65.00 Wash, 10 lks. wide, course N.
 80.08 The cor. of secs. 2, 3, 10 and 11.
 Land, mountainous in E. and rolling in W. half.
 Soil, rocky; 4th rate, in E., and sandy; 2nd and 3rd rate in W. half.
 No timber.
 Undergrowth, catclaw, juniper and cactus.

N.0°01'W., on a random line, bet. secs. 2 and 3.
 40.00 Set temp. $\frac{1}{4}$ sec. cor.
 79.78 Intersect N. bdy. of Tp. 33 lks. W. of the cor. of secs. 2, 3, 34 and 35, described in Book "A".
 Thence I run

S.0°13'W., on a true line, bet. secs. 2 and 3, over rolling prairie, through scattering undergrowth.
 39.78 Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the ground, for $\frac{1}{4}$ sec. cor., with brass cap, marked
 $\frac{1}{4}$ in N.,
 S 2 in E., and
 S 3 in W. half; and
 1916 in S. rim;
 and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor.

79.78 The cor. of secs. 2, 3, 10 and 11.
 Land, rolling prairie.
 Soil, sandy loam, 2nd. and 3rd rate.
 No timber.
 Undergrowth, greasewood and cactus.

Jan. 7, 1916.
 H. P.

E. O. L.
 May 8, 1915.
 From the cor. of secs. 3, 4, 33 and 34, on the S. bdy. of Tp. which is an iron post, 3 ins. diam., with brass cap, marked, set and witnessed as described by the surveyor general,
 I run

N.0°02'W., bet. secs. 33 and 34, across broad wash; scattering undergrowth.
 5.00 Leave wash, course N.30°W.; thence over flat; gradual W. slope.
 30.00 Leave flat; border bears N.20°W., and S.20°E.; thence over gently rolling ground, general westerly slope.

40.00 Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the ground, for $\frac{1}{4}$ sec. cor., with brass cap, marked
 $\frac{1}{4}$ in N.,
 S 33 in W., and
 S 34 in E. half; and
 1915 in S. rim;
 and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor.

47.00 Wash, 25 lks. wide, course W. for 15 chs., and thence N.; asc. SW. slope 50 ft. to
 53.15 Thence across W. slope.
 56.95 Desc. NW. slope.
 64.45 Ravine, course from N.50°E., to SW.; asc. S slope 85 ft. to
 73.30 Ridge bears N.60°W., and E.; desc. NW. slope 100 ft. to

Chains

- 80.00 Set an iron post, 3 ft. long, 2 ins. diam., 24 ins. in the ground, for cor. of secs. 27, 28, 33 and 34, with brass cap, marked
 T 23 N S 28 in NW.,
 R 20 W S 27 in NE.,
 S 34 in SE., and
 S 33 in SW. quadrant; and
 1915 in S. rim;
 and raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor.; whence
 A juniper, 5 ins. diam., marked T23N R20W S27 BT bears N.49°E., 67 lks. dist.;
 A juniper, 7 ins. diam., marked T23N R20W S34 BT bears S.65°E., 78 lks. dist.;
 A juniper, 5 ins. diam., marked T23N R20W S33 BT bears S.0°30'W., 74 lks. dist., and
 A juniper, 5 ins. diam., marked T23N R20W S28 BT bears N.5°W., 100 lks. dist.
 Land, roughly rolling.
 Soil, gravelly and rocky; 4th rate.
 No timber.
 Undergrowth, greasewood, catclaw, yucca, juniper and cactus.
-
- 40.00 East, on a random line, bet. secs. 27 and 34.
 80.12 Set temp. sec. cor.
 Intersect N. and S. line 8 lks. N. of the cor. of secs. 26, 27, 34 and 35.
 Thence I run
 N.89°57'W., on a true line, bet. secs. 27 and 34.
 Asc. over mountainous land, through scattering undergrowth.
 .72 Road from Burro Springs to Chloride bears N. and S.
 5.40 Low spur extends N.
 8.00 Ravine, course N.30°E.
 20.20 Spur, 240 ft. above sec. cor., extends SE.
 28.40 Top of low shoulder of ridge, sloping SE; connects with high ridges about 40 chs. SE., and dividing drainage running N. from that running W.
 Desc. SW. slope .
 35.40 Ravine, course S.15°W.; asc. 30 ft. to
 40.06 Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the ground, for ¼ sec. cor., with brass cap, marked
 ¼ S 27 in N. half,
 S 34 in S. half; and
 1915 in S. rim;
 and raise a mound of stone, 2 ft. base, 1½ ft. high, N. of cor.
 40.60 Spur extends S.; desc. 130 ft. to
 49.47 Foot of descent bears N. and S.; asc. E. slope 90 ft. to
 57.80 Ridge bears N and SW.; desc. 120 ft. to
 69.92 Ravine, course N. for 5 chs., and thence s.60°W.; asc. E. slope 20 ft. to
 72.40 Spur extends N.; desc. NW. slope 75 ft. to
 80.12 The cor. of secs. 27, 28, 33 and 34.
 Land, mountainous.
 Soil, gravelly and stony; 4th rate.
 No timber.
 Undergrowth, greasewood, catclaw, yucca, juniper and cactus.

E. O. L.

T. O. J.
 N.0°02'W., bet. secs. 27 and 28,
 over mountainous land, through juniper timber.
 Desc. N. slope to

1.00 Draw, course W.; asc. S. slope.
 7.80 Thence along E. slope.

Chains

- 13.30 Top of ridge, 160 ft. above sec. cor., bears N.22 $\frac{1}{2}$ °E. and SW.; line runs along W. slope.
- 30.45 Top of spur extends W.; desc. along W. slope.
- 39.30 Desc. N. slope.
- 40.00 160 ft. below spur,
Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the ground, for $\frac{1}{4}$ sec. cor., with brass cap, marked
 $\frac{1}{4}$ in N.,
S 27 in E., and
S 28 in W. half; and
1915 in S. rim;
and raise a mound of stone, 2 ft. base, 1 $\frac{1}{2}$ ft. high, W. of cor.
- 40.85 Draw, course W.; asc. S. slope 210 ft. to
- 49.50 Top of ridge bears NW. and SE.; desc. along E. slope over slide rock.
- 67.40 Top of same ridge bears NE. and SW.; desc. along W. slope.
- 75.00 Desc. N. slope.
- 80.00 150 ft. below ridge, on N. slope,
Set an iron post, 3 ft. long, 2 ins. diam., 24 ins. in the ground, for cor. of secs. 21, 22, 27 and 28, with brass cap, marked
T 23 N S 21 in NW.,
R 20 W S 22 in NE.,
S 27 in SE., and
S 28 in SW. quadrant; and
1915 in S. rim;
and raise a mound of stone, 2 ft. base, 1 $\frac{1}{2}$ ft. high, W. of cor.
- Land, mountainous.
Soil, rocky; 4th rate.
Timber, scattering juniper.

May 8, 1915.
T. O. J.

E. O. L.

- May 13, 1915.
East, on a random line, bet. secs. 22 and 27.
- 40.00 Set temp. $\frac{1}{4}$ sec. cor.
- 79.98 Intersect N. and S. line 9 lks. S. of cor. of secs. 22, 23, 26 and 27.
Thence I run
S. 89°56' W., on a true line, bet. secs. 22 and 27,
over mountainous land, through scattering undergrowth.
Asc. NE. slope 70 ft. to
- 7.45 Spur extends N.; desc. NW. slope 165 ft. to
- 16.95 Ravine, course N.15°E. (heads ".50 chs. S. of line).
Asc. NE. slope.
- 20.50 Summit of ascent on ridge bearing NW. and SE.; desc. SW. slope 90 ft. to
- 31.50 Ravine, course S. for 10 chs. and thence W.
- 36.40 Spur extends S.; thence over general S. slope.
- 39.99 Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the ground, for $\frac{1}{4}$ sec. cor., with brass cap, marked
 $\frac{1}{4}$ S 22 in N. half,
S 27 in S. half, and
1915 in S. rim;
and raise a mound of stone, 2 ft. base, 1 $\frac{1}{2}$ ft. high, N. of cor.
- 41.85 Spur extends S.; desc. SW. slope.
- 60.30 Top of small spur extends SW.
- 66.15 Gulch, 160 ft. below spur at 41.85 chs., course NW.; asc. 145 ft. to
- 79.98 The cor. of secs. 21, 22, 27 and 28.
Land, mountainous.
Soil, gravelly and stony; 4th rate.
No timber.
Undergrowth, scrub juniper, cactus, catclaw, greasewood and yucca.

E. O. L.

Chains

T. O. J.
 N. 0°02' W., bet. secs. 21 and 22,
 over mountainous land, through scattering undergrowth.
 Desc. N. slope 150 ft. to
 12.50 Canyon, course S. 67½° W.; asc. S. slope 100 ft. to
 24.60 Top of spur extends W.; thence along broken W. slope.
 40.00 On W. slope,
 Set an iron post, 3 ft. long, 1 in. diam., in a mound of
 stone, for ¼ sec. cor., with brass cap, marked
 ¼ in N.,
 S 21 in W., and
 S 22 in E. half; and
 1915 in S. rim;
 and raise a mound of stone, 2 ft. base, 1½ ft. high,
 W. of cor. Impracticable to dig pits or set cor. in the
 ground.
 46.25 Top of white cliffs 40 ft. high.
 80.00 On W. slope
 Set an iron post, 3 ft. long, 2 ins. diam., in a mound of
 stone, for cor. of secs. 15, 16, 21 and 22, with brass
 cap, marked
 T 23 N S 16 in NW.,
 R 20 W S 15 in NE.,
 S 22 in SE., and
 S 21 in SW. quadrant; and
 1915 in S. rim;
 and raise a mound of stone, 2 ft. base, 1½ ft. high,
 W. of cor. Impracticable to dig pits or set cor. in
 the ground.
 Land, mountainous.
 Soil, rocky; 4th rate.
 No timber.
 Undergrowth, scrub juniper.

 40.00 East, on a random line, bet. secs. 15 and 22.
 79.98 Set temp. ¼ sec. cor.
 Intersect N. and S. line 3 lks. N. of the cor. of secs.
 14, 15, 22 and 23.
 Thence I run
 N. 89°59' W., on a true line, bet. secs. 15 and 22,
 over mountainous land, through scattering undergrowth.
 Desc. W. slope 30 ft. to
 5.00 Leave mountainous land and enter valley.
 10.00 Wash, 100 lks. wide, course NW.
 39.99 On W. side of valley,
 Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the
 ground, for ¼ sec. cor., with brass cap, marked
 ¼ S 15 in N. half,
 S 22 in S. half; and
 1915 in S. rim;
 and raise a mound of stone, 2 ft. base, 1½ ft. high,
 N. of cor.
 41.00 Leave valley; bears N. 22½° W.; thence over mountainous
 land. Asc. E. slope 160 ft. to
 54.85 Top of ridge bears N. and S.; desc. W. slope 60 ft. to
 58.00 Canyon, course N. 22½° W.; asc. along N. slope 200 ft. to
 74.50 Top of ridge bears N. and S.; desc. W. slope of rocky ridge
 160 ft. to
 79.98 The cor. of secs. 15, 16, 21 and 22.
 Land, rolling and mountainous; 36 chs. mountainous.
 Soil, rocky and gravelly; 4th rate.
 No timber.
 Undergrowth, scrub juniper.

May 13, 1915.
T. O. J.

Chains

G. H. R.
Jan. 8, 1916.

At 8h 30m a.m., l.m.t., I set off $35^{\circ}22\frac{1}{2}'$ on the lat arc;
 $22^{\circ}19'$ S. on the decl. arc., and determine a meridian at
the cor. of secs. 15, 16, 21 and 22, with the solar.

Thence I run

N. $0^{\circ}02'W.$, bet. secs. 15 and 16,
over rolling mountainous land, through scattering under-
growth.

Desc. 30 ft. to

5.00 Thence asc. W. slope 100 ft. to

35.90 Ridge, course N. $30^{\circ}W.$ and S. $30^{\circ}E.$; desc. NE. slope.

40.00 Set an iron post, 3 ft. long, 1 in. diam., 15 ins. in the
ground and 11 ins. in a mound of stone, for $\frac{1}{4}$ sec. cor.,
with brass cap, marked

$\frac{1}{4}$ in N.,
S 15 in E., and
S 16 in W. half; and
1916 in S. rim;

and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high,
W. of cor. Impracticable to dig pits or set cor. farther
in the ground.

44.90 Head of ravine, 90 ft. below ridge, course N. $70^{\circ}E.$; asc.
SE. slope 300 ft. to

69.40 Spur extends E.; desc. along ridge, 30 ft. to

80.00 Set an iron post, 3 ft. long, 2 ins. diam., 18 ins. in the
ground and 6 ins. in a mound of stone, for cor. of secs.
9, 10, 15 and 16, with brass cap, marked

T 23 N S 9 in NW.,
R 20 W S 10 in NE.,
S 15 in SE., and
S 16 in SW. quadrant; and
1916 in S. rim;

and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high,
W. of cor. Impracticable to dig pits or set cor. far-
ther in the ground.

Land, mountainous.

Soil, rocky; 4th rate.

Timber, none.

Undergrowth, cactus, catclaw, juniper and spanish dagger.

40.00 East, on a random line, bet. secs. 10 and 15.

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

80.06 Intersect N. and S. line 18 lks. S. of the cor. of secs.
10, 11, 14 and 15.

Thence I run

S. $89^{\circ}52'W.$, on a true line, bet. secs. 10 and 15,
over nearly level land, through scattering undergrowth.

15.00 Wash, 50 lks. wide, course N. $20^{\circ}W.$

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

$\frac{1}{4}$ S 10 in N. half,
S 15 in S. half, and
1916 in S. rim;

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

45.85 Wash, 20 lks. wide, course N. $10^{\circ}E.$; leave flat, and enter
mountainous land. Asc. E. slope 430 ft. to

80.06 The cor. of secs. 9, 10, 15 and 16.

Land, mountainous, for W. 34 chs., and level for E. part.

Soil, rocky and gravelly; 3rd and 4th rate.

No timber.

Undergrowth, catclaw, greasewood, juniper cactus and
sage.

N. $0^{\circ}02'W.$, bet. secs. 9 and 10,

over rolling mountainous land, through scattering under-
growth. Desc. N. slope of N. and S. ridge 200 ft. to

Chains

40.00 Set an iron post, 3 ft. long, 1 in. diam., 15 ins. in the ground and 11 ins. in a mound of stone, for $\frac{1}{4}$ sec. cor., with brass cap, marked
 $\frac{1}{4}$ in N.,
 S 9 in W., and
 S 10 in E. half; and
 1916 in S. rim;
 and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor. Impracticable to dig pits or set cor. in ground.
 At this cor. I set off $22^{\circ}19'$ S. on the decl. arc, and at apparent noon observe the sun on the meridian. The resulting lat. is $35^{\circ}24'$.

80.00 265 ft. below $\frac{1}{4}$ sec. cor.,
 Set an iron post, 3 ft. long, 2 ins. diam., 12 ins. in the ground ^{and 12 ins. in a mound of stone} for cor. of secs. 3, 4, 9 and 10, with brass cap, marked
 T 23 N. S 4 in NW.,
 R 20 W S 3 in NE.,
 S 10 in SE., and
 S 9 in SW. quadrant; and
 1916 in S. rim;
 and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor. Impracticable to dig pits or set cor. farther in the ground.
 Land, mountainous.
 Soil, rocky; 4th rate.
 No timber.
 Undergrowth, cactus, catclaw, juniper, greasewood, cedar, and sagebrush.

Jan. 8, 1916.
 G. H. R.

H. P.
 Jan. 7, 1916.
 East, on a random line, bet. secs. 3 and 10.

40.00 Set temp. $\frac{1}{4}$ sec. cor.
 79.98 Intersect N. and S. line 25 lks. S. of the cor. of secs. 2, 3, 10 and 11.
 Thence I run
 S. $89^{\circ}49'$ W., on a true line, bet. secs. 3 and 10,
 Over rolling prairie, through scattering undergrowth.

2:00 Wash, 25 lks. wide, course N.
 39.99 Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the ground, for $\frac{1}{4}$ sec. cor., with brass cap, marked
 $\frac{1}{4}$ S 3 in N. half,
 S 10 in S. half; and
 1916 in S. rim;
 and dig pits, 18x18x12 ins., E. and W. of cor., 3 ft. dist., and raise mound of earth, $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high, N. of cor.

52.00 Wash, 15 lks. wide, course N.
 59.98 Leave prairie, and enter rolling hills.
 79.98 The cor. of secs. 3, 4, 9 and 10.
 Land, rolling hills and prairie.
 Soil, sandy and rocky; 3rd and 4th rate.
 No timber.
 Undergrowth, catclaw, greasewood, cactus and juniper.

Jan. 7, 1916.
 H. P.

Jan. 8, 1916.
 G. H. R.

40.00 N. $0^{\circ}02'$ W., on a random line, bet. secs. 3 and 4.
 Set a temp. $\frac{1}{4}$ sec. cor.
 80.11 Intersect N. bdy. of Tp. 42 lks. W. of the cor. of secs. 3, 4, 33 and 34, described in Book "A".
 Thence I run
 S. $0^{\circ}16'$ W., on a true line, bet. secs. 3 and 4,
 across nearly level land, through scattering undergrowth.

30.00 Leave flat and enter hills.

Chains
40.11

Set an iron post, 3 ft. long, 1 in. diam., 14 ins. in the ground and 12 ins. in a mound of stone, for $\frac{1}{4}$ sec. cor. with brass cap, marked
 $\frac{1}{4}$ in N.,
S 3 in E., and
S 4 in W. half; and
1916 in S. rim;
and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor. Impracticable to dig pits or set cor. farther in the ground.

Asc. N. slope.

50.10

Point of spur projects NE.

65.10

Wash, 10 lks. wide, course NE.

80.11

The cor. of secs. 3, 4, 9 and 10.

Land, nearly level in N. 30 chs., and rolling mountainous in S. portion.

Soil, rocky; 4th rate.

No timber.

Undergrowth, catclaw, spanish dagger, cactus and sage-brush.

Jan. 8, 1916.
G. H. R.

T. O. J.-- May, 8, 1915.-- From cor. of secs. 4, 5, 32 & 33 on S. bdy. of Tp. 23 N., which is an iron post, 3 ins. diam. with brass cap, set, marked and witnessed as described by the surveyor general, I run N. $0^{\circ}03'$ W., bet. secs. 32 and 33, Asc. over broken W. slope, over mountainous land, 60 ft. to

6.80

Top of cliff, 25 ft. high.

17.30

Draw, 55 ft. below cliff, course S. $67\frac{1}{2}^{\circ}$ W.; asc. over broken S. slope 520 ft. to

39.20

Top of ridge, bears E. and W.

40.00

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

$\frac{1}{4}$ in N.,
S 32 in W., and
S 33 in E. half; and
1915 in S. rim;

and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor. Impracticable to dig pits or set cor. in the ground.

Desc. N. slope over huge boulders.

54.15

Desc. over cliff 75 ft. high.

59.75

Canyon, 520 ft. below $\frac{1}{4}$ sec. cor., course S. $67\frac{1}{2}^{\circ}$ W.; asc. cliff 200 ft. high; thence asc. broken S. slope over cliffs to

72.65

Top of cliff, 100 ft. high, on hill, 230 ft. above canyon.

76.65

Head of draw, course W.

80.00

On E. slope

Set an iron post, 3 ft. long, 2 ins. diam., in a mound of stone, for cor. of secs. 28, 29, 32 and 33, with brass cap, marked

T 23 N S 29 in NW.,
R 20 W S 28 in NE.,
S 33 in SE., and
S 32 in SW. quadrant; and
1915 in S. rim;

and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor. Impracticable to dig pits or set cor. in the ground.

Land, mountainous.

Soil, rocky; 4th rate.

No timber.

East, on a random line, bet. secs. 28 and 33.

40.00

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

80.34

Intersect N. and S. line 8 lks. N. of the cor. of secs. 27, 28, 33 and 34.

Chains	
	Thence I. run N. $89^{\circ}57'W.$, on a true line, bet. secs. 28 and 33, over mountainous land, through scattering undergrowth. Line runs along N. slope.
7.10	Head of canyon, course N. $22\frac{1}{2}^{\circ}E.$; asc. E. slope 140 ft. to
15.00	Top of ridge bears N. and S.; desc. W. slope 200 ft. to
25.35	Enter valley.
31.55	Leave same and Asc. E. slope.
40.17	Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the ground, for $\frac{1}{4}$ sec. cor., with brass cap, marked $\frac{1}{4}$ S 28 in N. half, S 33 in S. half; and 1915 in S. rim; and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, N. of cor.
55.20	Top of main divide, 230 ft. above valley, bears N. and S. High butte 5 chs. N. of line. Desc. S. slope.
62.35	Thence on W. slope.
79.35	Head of draw, 460 ft. below divide, course S. $22\frac{1}{2}^{\circ}W.$; asc. E. slope to
80.34	The cor. of secs. 28, 29, 32 and 33. Land, mountainous for 74 chs. and valley for balance. Soil, rocky; 4th rate in mountains and sandy loam, 2nd rate, in valley. No timber. Undergrowth, scattering juniper.
	May 8, 1915.
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	May 11, 1915. N. $0^{\circ}03'W.$, bet. secs. 28 and 29. Line runs along top of ridge bearing N. $22\frac{1}{2}^{\circ}W.$ and S. $22\frac{1}{2}^{\circ}E.$; mountainous land.
8.30	Top of ridge bears E. and W.; desc. NW. slope 125 ft. to
12.70	Draw, course N. $67\frac{1}{2}^{\circ}W.$; Thence along W. slope, over slide rock.
38.00	Desc. along W. slope.
40.00	Set an iron post, 3 ft. long, 1 in. diam., in a mound of stone, for $\frac{1}{4}$ sec. cor., with brass cap, marked $\frac{1}{4}$ in N., S 28 in E., and S 29 in W. half; and 1915 in S. rim; and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor. Impracticable to dig pits or set cor. in the ground.
54.70	Draw, 180 ft. below station at 38.00 chs., course W.; thence line runs along broken W. slope.
69.60	Draw, course SW.; asc. along E. slope of spur extending S.
74.50	Thence along W. slope.
78.60	Draw, 5.00 chs. wide, course S. $67\frac{1}{2}^{\circ}W.$
80.00	100 ft. above draw at 69.60 chs., Set an iron post, 3 ft. long, 2 ins. diam., in a mound of stone, for cor. of secs. 20, 21, 28 and 29, with brass cap, marked T 23 N S 20 in NW., R 20 W S 21 in NE., S 28 in SE, and S 29 in S. quadrant; and 1915 in S. rim; and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor. Impracticable to dig pits or set cor. in the ground. Land, mountainous. Soil, rocky; 4th rate. No timber.
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	East, on a random line, bet. secs. 21 and 28.
40.00	Set temp. $\frac{1}{4}$ sec. cor.
80.30	Intersect N. and S. line at the cor. of secs. 21, 22, 27 and 28.

Chains

Thence I run
 West, on a true line, bet. secs. 21 and 28.
 Desc. gradually, over rolling mountainous land.
 10.30 Draw, 5.00 chs. wide, 40 ft. deep, course N.67½°W.
 25.30 Ft. of slope, 170 ft. below sec. cor.; enter valley.
 34.30 Wash, 2.00 chs. wide, course N.
 38.50 Trail bears N. and S..
 40.15 Leave valley and enter rolling mountainous land.
 Set an iron post, 3 ft. long, 1 in. diam., in a mound of
 stone, for ¼ sec. cor., with brass cap, marked
 1915 in S. rim;
 and raise a mound of stone, 2 ft. base, 1½ ft. high,
 N. of cor. Impracticable to dig pits or set cor. in the
 ground.
 Asc. gradually on E. slope.
 55.30 Along N. slope of E. and W. ridge.
 63.30 Top of main divide, 85 ft. above valley, bears N. and S.
 Desc. rocky W. slope, through scattering juniper brush,
 150 ft. to
 69.05 Draw, course S.67½°W.; desc. SW. slope 100 ft. to
 79.60 Gulch, course SW.
 80.30 The cor. of secs. 20, 21, 28 and 29.
 Land, mountainous and rolling mountainous.
 Soil, rocky; 4th rate.
 Undergrowth, scattering juniper on W. 17 chs.
 No timber.

May 11, 1915.

 May 12, 1915.

N.0°03'W., bet. secs. 20 and 21,
 over mountainous land, through scattering undergrowth.
 Asc. S. slope.
 5.00 Thence along SE. slope.
 14.75 Main divide, 365 ft. above sec. cor., bears NW. and SE.;
 thence along broken E. slope.
 40.00 Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the
 ground, for ¼ sec. cor., with brass cap, marked
 1915 in S. rim;
 and raise a mound of stone, 2 ft. base, 1½ ft. high,
 W. of cor.
 78.70 Ravine, course SE.; asc. SW. slope to
 80.00 Set an iron post, 3 ft. long, 2 ins. diam., 24 ins. in the
 ground, for cor. of secs. 16, 17, 20 and 21, with brass
 cap, marked
 T 23 N S 17 in NW.,
 R 20 W S 16 in NE.,
 S 21 in SE., and
 S 20 in SW. quadrant; and
 1915 in S. rim;
 and raise a mound of stone, 2 ft. base, 1½ ft. high,
 W. of cor.
 Land, mountainous.
 Soil, rocky; 4th rate.
 No timber.
 Undergrowth, scattering juniper.

May 12, 1915.

 May 13, 1915.

East, on a random line, bet. secs. 16 and 21.
 40.00 Set temp. ¼ sec. cor.
 80.18 Intersect N. and S. line 14 lks. N. of the cor. of secs.
 15, 16, 21 and 22.
 Thence I run
 N.89°54'W., on a true line, bet. secs. 16 and 21.

Chains
 15.30 Desc. W. slope 200 ft. to
 26.30 Valley, edge bears N. and S.
 30.30 Wash, course NE.
 40.09 Leave valley and asc. over rolling mountainous land.
 Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the
 ground, for $\frac{1}{4}$ sec. cor., with brass cap, marked
 $\frac{1}{4}$ S 16 in N. half,
 S 21 in S. half, and
 1915 in S. rim;
 and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high,
 N. of cor.
 44.20 Top of spur, 120 ft. above valley, extends S.; desc. W.
 slope 50 ft. to
 45.60 Mouth of draw, course S. $22\frac{1}{2}^{\circ}$ E.
 50.60 Mouth of draw, course S.; asc. E. slope 90 ft. to
 67.90 Top of spur extends S. $22\frac{1}{2}^{\circ}$ E.; desc. W. slope 30 ft. to
 70.30 Draw, course S. $67\frac{1}{2}^{\circ}$ E.; asc. E. slope 70 ft. to
 75.20 Top of spur extends S.; desc. gradually to
 80.18 The cor. of secs. 16, 17, 20 and 21.
 Land, mountainous and rolling mountainous..
 Soil, rocky; 4th rate.
 No timber.
 Undergrowth, juniper.

May 13, 1915.
 T. O. J.

H. P.
 Jan. 8, 1916.
 At 9h 00m a.m., l.m.t., I set off $35^{\circ}23'$ on the lat. arc;
 $22^{\circ}19'$ S. on the decl. arc; and determine a meridian at
 the cor. of secs. 16, 17, 20 and 21, with the solar.
 Thence I run
 N. $0^{\circ}03'$ W., bet. secs. 16 and 17, over mountainous land,
 through scattering undergrowth.
 Asc. SW. slope 270 ft. to
 32.30 Top of spur extends SE.; desc. gradually 55 ft. to
 40.00 Set an iron post, 3 ft. long, 1 in. diam., 6 ins. in the
 ground and 20 ins. in a mound of stone, for $\frac{1}{4}$ sec. cor.,
 with brass cap, marked
 $\frac{1}{4}$ in N.,
 S 16 in E., and
 S 17 in W. quadrant; and
 1916 in S. rim;
 and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high,
 W. of cor. Impracticable to dig pits or set cor. far-
 ther in the ground.
 80.00 Desc. broken NE. slope 120 ft. to
 Set an iron post, 3 ft. long, 2 ins. diam., 15 ins. in the
 ground and 9 ins. in a mound of stone, for cor. of secs.
 8, 9, 16 and 17, with brass cap, marked
 T 23 N S 8 in NW.,
 R 20 W S 9 in NE.,
 S 16 in SE., and
 S 17 in SW. quadrant; and
 1916 in S. rim;
 and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high,
 W. of cor. Impracticable to dig pits or set cor. far-
 ther in the ground.
 Land, mountainous.
 Soil, rocky, 4th rate.
 No timber.
 Undergrowth, juniper, greasewood, catclaw and cactus.

H. P.

G. H. R.
 East, on a random line, bet secs. 9 and 16.
 40.00 Set temp. $\frac{1}{4}$ sec. cor.
 79.92 Intersect N. and S. line 23 lks N. of the cor. of secs.

Chains

9, 10, 15 and 16.
 Thence I run
 N.89°50'W., on a true line, bet. secs. 9 and 16.
 Asc. E. slope over rolling mountainous land, through scattering undergrowth.
 1.75 Ridge bears N. and S.; desc. W. slope 375 ft. to
 39.96 Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the ground, for $\frac{1}{4}$ sec. cor., with brass cap, marked
 $\frac{1}{4}$ S 9 in N. half,
 S 16 in S. half, and
 1916 in S. rim;
 and raise a mound of stone, 2 ft. base, 1 $\frac{1}{2}$ ft. high, N. of cor.
 45.00 Wash, 20 lks. wide, course N.20°W.
 65.00 Asc. E. slope 165 ft. to
 79.92 The cor. of secs. 8, 9, 16 and 17.
 Land, rolling mountainous.
 Soil, rocky; 4th rate.
 No timber.
 Undergrowth, catclaw, cactus, spanish dagger and sage.
 G. H. R.

H. P.
 N.0°03'W., bet. secs. 8 and 9,
 over rolling mountainous land, through scattering undergrowth. Desc. gradually.
 40.00 Set an iron post, 3 ft. long, 1 in. diam., 16 ins. in the ground and 10 ins. in a mound of stone, for $\frac{1}{4}$ sec. cor., with brass cap, marked
 $\frac{1}{4}$ in N.,
 S 8 in W., and
 S 9 in E. half; and
 1915 in S. rim;
 and raise a mound of stone, 2 ft. base, 1 $\frac{1}{2}$ ft. high, W. of cor. Impracticable to dig pits or set cor. farther in the ground.
 80.00 Enter valley, 140 ft. below sec. cor., bears NW. and SE.
 Set an iron post, 3 ft. long, 2 ins. diam., 24 ins. in the ground, for cor. of secs. 4, 5, 8 and 9, with brass cap, marked
 T 23 N S 5 in NW.,
 R 20 W S 4 in NE.,
 S 9 in SE., and
 S 8 in SW. quadrant; and
 1916 in S. rim;
 dig pits, 18x18x12 ins., in each sec., 5 $\frac{1}{2}$ ft. dist., and raise a mound of earth, 4 ft. base, 2 ft. high, W. of cor.
 Land, mountainous in S. half and rolling in N.
 Soil, rocky; 4th rate.
 No timber.
 Undergrowth, greasewood, cactus, juniper and catclaw.
 At this cor. I set off 22°19' S. on the decl. arc, and at apparent noon observe the sun on the meridian. The resulting lat. is 35°24'.

East, on a random line, bet. secs. 4 and 9.
 40.00 Set temp. $\frac{1}{4}$ sec. cor.
 79.96 Intersect N. and S. line 5 lks. N. of the cor. of secs. 3, 4, 9 and 10.
 Thence I run
 N.89°58'W., on a true line, bet. secs. 4 and 9,
 over rolling land, through scattering undergrowth.
 3.55 Wash, 10 lks. wide, course NE.
 20.00 Asc.
 39.98 Set an iron post, 3 ft. long, 1 in. diam., 6 ins. in the ground and 20 ins. in a mound of stone, for $\frac{1}{4}$ sec. cor.,

Chains

with brass cap, marked
1/4 S 4 in N. half,
S 9 in S. half, and
1916 in S. rim;
and raise a mound of stone, 2 ft. base, 1 1/2 ft. high,
N. of cor. Impracticable to dig pits or set cor. farther
in the ground.

43.60 Top of ridge, 390 ft. above 20 ch. point, bears N. and S.;
desc. W. slope 390 ft. to

66.05 Wash, 25 lks. wide, course N.; thence over rolling land.

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

Land, rolling for 34 chs. and mountainous for balance.
Soil, rocky; 4th rate.

No timber.

Undergrowth, catclaw, greasewood, juniper and cactus.

40.00 N.0°03'W., on a random line, bet. secs. 4 and 5.
Set temp. 1/4 sec. cor.

79.94 Intersect N. bdy. of Tp. 17 lks. W. of the cor. of secs.
4, 5, 32 and 33, described in Book "A".

Thence I run

S.0°04'W., on a true line, bet. secs. 4 and 5,
over rolling land, through dense undergrowth.

10.00 Wash, 10 lks. wide, course E.

39.94 Set an iron post, 3 ft. long, 1 in. diam., 10 ins. in the
ground and 16 ins. in a mound of stone, for 1/4 sec. cor.
with brass cap, marked

1/4 in N.,
S 4 in E., and
S 5 in W. half; and
1916 in S. rim;

and raise a mound of stone, 2 ft. base, 1 1/2 ft. high, W.
of cor. Impracticable to dig pits or set cor. farther
in the ground.

Thence along E. slope.

50.00 Enter valley, bears NE. and SW.

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

Land, mountainous and rolling.

Soil, 3rd and 4th rate.

No timber.

Undergrowth, greasewood, catclaw, juniper and cactus.

Jan. 8, 1916

H. P.

T. O. J. May 7, 1915.

From the cor. of secs. 5, 6, 31 & 32, on S. bdy. of Tp., which
is an iron post, 3 ins. diam., with brass cap, set, marked
and witnessed as described by the surveyor general,
I run

N.0°03'W., bet. secs. 31 and 32,
over mountainous land; desc. N. slope 70 ft. to

5.00 Burns Springs Wash, 5.00 chs. wide, course W.; asc. S. slope
of rocky spur 110 ft. to

9.60 Top of spur extends SE.; desc. N. slope 45 ft. to

11.50 Draw, course SE; asc. along SW. slope over slide rock,
240 ft. to

19.60 Top of malpais ridge bears E. and W.; desc. N. slope 230
ft. to

30.70 Mouth of draw, course E.; asc. along E. slope 40 ft. to

36.00 Desc. NE. slope 75 ft. to

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

1/4 in N.,
S 31 in W., and
S 32 in E. half; and
1915 in S. rim;

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

42.00 Bottom of canyon, course NW.

Chains

50.00 Asc. over W. slope, over slide rock, 65 ft. to
 56.10 Top of low spur extends W.; desc. N. slope 30 ft. to
 60.00 Draw, course S.67½°W.; Asc. SW. slope of low spur extending
 W.; 45 ft. to
 63.00 Top of spur; desc. N. slope 20 ft. to
 68.10 Draw, course S.67½°W.; Asc. S. slope.
 75.80 Reef 50 ft. high.
 80.00 220 ft. above draw,
 Set an iron post, 3 ft. long, 2 in. diam., in a mound of
 stone, for cor. of secs. 29, 30, 31 and 32, with brass
 cap, marked
 T 23 N S 30 in NW.,
 R 20 W S 29 in NE.,
 S 32 in SE., and
 S 31 in SW. quadrant; and
 1915 in S. rim;
 and raise a mound of stone, 2 ft. base, 1½ ft. high,
 W. of cor. Impracticable to dig pits or set cor. in the
 ground.
 Land, mountainous.
 Soil, rocky; 4th rate.
 No timber.

East., on a random line, bet. secs. 29 and 32.
 40.00 Set temp. ¼ sec. cor.
 79.76 Intersect N. and S. line 13 lks. N. of the cor. of secs.
 28, 29, 32 and 33.
 Thence I run
 N.89°54'W., on a true line, bet. secs. 29 and 32.
 Asc. E. slope over mountainous land, 10 ft. to
 Spur extends S.; desc. over high cliffs, 125 ft. to
 .75 Canyon, course S.22½°W.; asc. E. slope 35 ft. to
 8.15 Top of spur extends S.; desc. along S. slope.
 10.65 Thence on broken W. slope.
 13.30 Draw, 160 ft. below spur, course SW.
 21.95 Canyon, course SE.; Asc. E. slope over slide rock.
 23.85 Top of ridge, 260 ft. above canyon, bears N. and S.
 32.25 Top of cliff 100 ft. high; desc. over same.
 32.55 300 ft. below ridge,
 39.88 Set an iron post, 3 ft. long, 1 in. diam., in a mound of
 stone, for ¼ sec. cor., with brass cap, marked
 ¼ S 29 in N. half,
 S 32 in S. half, and
 1915 in S. rim;
 and raise a mound of stone, 2 ft. base, 1½ ft. high,
 N. of cor. Impracticable to dig pits or set cor. in the
 ground.
 40.55 Bottom of gulch, course S.; asc. W. slope 60 ft. to
 40.75 Top of cliff bears N. and S.; thence along top of spur.
 44.45 Desc. W. slope of spur extending S.67½°W., 60 ft. to
 47.45 Draw, course S.22½°E.; asc. E. slope 40 ft. to
 52.65 Ridge bears N. and S.; thence line runs along broken N. slope.
 65.00 Desc. W. slope 70 ft. to
 70.05 Head of draw, course N.67½°W.; asc. 15 ft. to
 73.00 Ridge bears NW. and SE.; desc. along broken S. slope 135 ft.
 to
 79.76 The cor. of secs. 29, 30, 31 and 32.
 Land, mountainous.
 Soil, rocky; 4th rate.
 No timber.

West., on a random line, bet. secs. 30 and 31.
 40.00 Set temp. ¼ sec. cor.
 78.20 Intersect W. bdy. of Tp. 9 lks. S. of the cor. of secs. 25, 30,
 and 31 and 36, described in Book "A."

Chains

Thence I run
 S.89°56'E., on a true line, bet. secs. 30 and 31,
 over mountainous land.
 6.80 Canyon, course SW.; asc. W. slope 250 ft. to
 21.50 Top of rocky spur extends S.; thence along S. slope.
 23.20 Desc. E. slope 70 ft. to
 28.20 Ft. of slope.
 34.50 Wash, 2.00 chs. wide, course S.67½°W.; asc. 50 ft. to
 38.20 In mouth of canyon, course SW.,
 Set an iron post, 3 ft. long, 1 in. diam., in a mound of
 stone, for ¼ sec. cor., with brass cap, marked
 ¼ S 30 in N., and
 S 31 in S. half; and
 1915 in S. rim;
 and raise a mound of stone, 2 ft. base, 1½ ft. high,
 N. of cor. Impracticable to dig pits or set cor. in
 the ground.
 Asc. steep rocky W. slope.
 60.10 Asc. over cliff 150 ft. high.
 65.90 Top of rocky point on spur, 540 ft. above ¼ sec. cor.; desc.
 along broken S. slope, over slide rock, 160 ft. to
 78.20 The cor. of secs. 29, 30, 31 and 32.
 Land, mountainous.
 Soil, rocky; 4th rate.
 No timber.

May 7, 1915.

 May 11, 1915.

N.0°03'W., bet. secs. 29 and 30,
 over mountainous land.
 Asc. E. slope 45 ft. to
 2.10 Top of ridge bears E. and W.; desc. along N. slope over
 slide rock, 310 ft. to
 15.60 Canyon, course S.67½°W.; asc. along W. slope.
 24.00 Draw, course SW.; asc. broken S. slope.
 30.70 Top of spur, 180 ft. above canyon at 15.60 chs., extends
 E.; desc. along E. slope.
 40.00 On E. slope,
 Set an iron post, 3 ft. long, 1 in. diam., in a mound of
 stone, for ¼ sec. cor., with brass cap, marked
 ¼ in N.,
 S 29 in E., and
 S 30 in W. half; and
 1915 in S. rim;
 and raise a mound of stone, 2 ft. base, 1½ ft. high,
 W. of cor. Impracticable to dig pits or set cor. in
 the ground.
 43.00 Canyon, 120 ft. below spur, course N.67½°W.; thence along
 broken W. slope.
 57.40 Ravine, 5.00 chs. wide, course S.67½°W.
 70.00 Canyon, course SW.; asc. along W. slope 40 ft. to
 80.00 On W. slope,
 Set an iron post, 3 ft. long, 2 ins. diam., in a mound of
 stone, for cor. of secs. 19, 20, 29 and 30, with brass
 cap, marked
 T 23 N S 19 in NW.,
 R 20 W S 20 in NE.,
 S 29 in SE., and
 S 30 in SW. quadrant; and
 1915 in S. rim;
 and raise a mound of stone, 2 ft. base, 1½ ft. high, W.
 of cor. Impracticable to dig pits or set cor. in the
 ground.
 Land, mountainous.
 Soil, rocky; 4th rate.
 No timber.

Chains

East, on a random line, bet. secs. 20 and 29.
 40.00 Set temp. $\frac{1}{4}$ sec. cor.
 79.64 Intersect N. and S. line 18 lks. N. of the cor. of secs. 20, 21, 28 and 29.
 Thence I run
 N. $89^{\circ}52'W.$, on a true line, bet. secs. 20 and 29.
 Desc. gradually along broken S. slope, over mountainous land.
 28.00 Top of cliff 50 ft. high, projects S.
 39.82 320 ft. below sec. cor.,
 Set an iron post, 3 ft. long, 1 in. diam., in a mound of stone, for $\frac{1}{4}$ sec. cor., with brass cap, marked
 $\frac{1}{4}$ S 20 in N. half,
 S 29 in S. half, and
 1915 in S. rim;
 and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, N. of cor. Impracticable to dig pits or set cor. in the ground.
 Desc. 60 ft. to
 44.85 Canyon, course NW.; desc. along N. slope.
 57.65 Enter canyon (same above noted) and thence down same.
 63.10 Leave canyon, course N. $67\frac{1}{2}^{\circ}W.$; asc. over cliff, 75 ft. high, and thence along N. slope.
 68.65 Same canyon, course SW.; thence along S. slope.
 76.45 Top of spur extends S. Desc. W. slope, 20 ft. to
 79.64 The cor. of secs. 19, 20, 29 and 30.
 Land, mountainous.
 Soil, rocky; 4th rate.
 No timber.

May 11, 1915.

May 12, 1915.

West, on a random line, bet. secs. 19 and 30.
 40.00 Set temp. $\frac{1}{4}$ sec. cor.
 78.41 Intersect W. bdy. of Tp. 4 lks. S. of the cor. of secs. 19, 24, 25 and 30, described in Book "A".
 Thence I run
 S. $89^{\circ}58'E.$, on a true line, bet. secs. 19 and 30.
 Asc. W. slope, over mountainous land, 70 ft. to
 3.00 Top of ridge bears N. and S. Desc.
 5.10 Desc. over cliff 100 ft. high, and thence over slide rock.
 16.80 Canyon, 200 ft. below ridge, course S. $22\frac{1}{2}^{\circ}W.$; thence along S. point of spur extending S.
 17.20 Draw, course S. $67\frac{1}{2}^{\circ}W.$; thence along broken N. slope.
 25.60 Spur, 190 ft. above canyon, extends SW.; thence along S. and W. slope.
 32.30 Top of ridge bears N. and S. (20 ft. above spur); desc. E. slope over slide rock.
 35.60 Draw, 130 ft. below ridge, course S. $22\frac{1}{2}^{\circ}W.$ Asc. 75 ft. to
 38.41 Set an iron post, 3 ft. long, 1 in. diam., in a mound of stone, for $\frac{1}{4}$ sec. cor., with brass cap, marked
 $\frac{1}{4}$ S 19 in N. half,
 S 30 in S. half, and
 1915 in S. rim;
 and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, N. of cor. Impracticable to dig pits or set cor. in the ground.
 Cor. is on top of spur extending S.; desc.
 40.10 Canyon, course S. $22\frac{1}{2}^{\circ}W.$; asc. 140 ft. to
 44.50 Ridge bears N. and S.; desc. E. slope 110 ft. to
 49.30 Thence asc.
 54.25 Draw, course SW.; asc. W. slope.
 62.15 Top of ridge, 240 ft. above station at 49.30 chs., bears N. and S.; desc. E. slope.
 77.10 Canyon, 170 ft. below ridge, course S. $22\frac{1}{2}^{\circ}W.$; asc. W. slope.
 78.41 The cor. of secs. 19, 20, 29 and 30.
 Land, mountainous.
 Soil, rocky; 4th rate.
 No timber.

Chains

N.0°03'W., bet. secs. 19 and 20.
 Asc., over mountainous land, along W. slope.
 29.80 Canyon, course S.22½°W.; asc. S. slope of spur.
 38.00 Top of spur, 250 ft. above sec. cor., extends SW.; desc.
 N. slope 20 ft. to
 40.00 In draw, course SW.,
 Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the
 ground, for ¼ sec. cor., with brass cap, marked
 ¼ in N.,
 S 19 in W., and
 S 20 in E. half; and
 1915 in S. rim;
 and raise a mound of stone, 2 ft. base, 1½ ft. high,
 W. of cor.
 Asc. S. slope of spur.
 50.00 Thence along E. slope.
 56.10 Top of ridge, 220 ft. above ¼ sec. cor., bears N.22½°E., a
 and S.22½°W.; desc. along W. slope 115 ft. to
 67.70 Ravine, 5.00 chs. wide, course W.
 75.00 Asc. SW. slope of low, white spur, 50 ft. to
 80.00 On top of spur, extending SW.,
 Set an iron post, 3 ft. long, 2 ins. diam., 24 ins. in the
 ground, for cor. of secs. 17, 18, 19 and 20, with brass
 cap, marked
 T 23 N S 18 in NW.,
 R 20 W S 17 in NE.,
 S 20 in SE., and
 S 19 in SW. quadrant; and
 1915 in S. rim;
 and raise a mound of stone, 2 ft. base, 1½ ft. high,
 W. of cor.
 Land, mountainous.
 Soil, rocky; 4th rate.
 No timber.

East, on a random line, bet. secs. 17 and 20.
 40.00 Set temp. ¼ sec. cor.
 79.70 Intersect N. and S. line 14 lks. N. of the cor. of secs.
 16, 17, 20 and 21.
 Thence I run
 N.89°54'W., on a true line, bet. secs. 17 and 20,
 over mountainous land, through scattering undergrowth.
 1.80 Canyon, course SW.; asc. along S. slope.
 19.00 Head of draw, course SE.; asc. E. slope.
 27.60 Top of divide, 340 ft. above canyon at 1.80 chs., bears
 N.22½°W. and S.22½°E.; desc. broken W. slope.
 39.85 On W. slope,
 Set an iron post, 3 ft. long, 1 in. diam., in a mound of
 stone, for ¼ sec. cor., with brass cap, marked
 ¼ S 17 in N. half,
 S 20 in S. half, and
 1915 in S. rim;
 and raise a mound of stone, 2 ft. base, 1½ ft. high,
 N. of cor. Impracticable to dig pits or set cor. in
 the ground.
 45.70 Draw, course S.22½°W.; thence along S. slope.
 54.50 Desc. W. slope.
 60.45 Canyon, 725 ft. below divide, course SW.; asc. E. slope
 85 ft. to
 71.55 Top of spur bears N. and S.; desc. W. slope over broken
 cliffs.
 79.70 The cor. of secs. 17, 18, 19 and 20.
 Land, mountainous.
 Soil, rocky; 4th rate.
 No timber.
 Undergrowth, scattering juniper.

May 12, 1915.
T. O. J.

Chains.	
	H. P. Jan. 10, 1916. At 8h 00m a.m., l.m.t., I set off 35°23' on the lat. arc; 22°01½' S. on the decl. arc; and determine a meridian with the solar at the cor. of secs. 17, 18, 19 and 20. Thence I run West, on a random line, bet. secs. 18 and 19.
40.00	Set temp. ¼ sec. cor.
77.90	Intersect W. bdy. of Tp. 9 lks. N. of the cor. of secs. 13, 18, 19 and 24, described in Book "A". Thence I run N. 89°56'E., on a true line, bet. secs. 18 and 19. Asc. W. slope, over mountainous land, through scattering undergrowth, 700 ft. to
25.80	Top of ridge bears N. and S.; desc. broken NE. slope.
37.90	Set an iron post, 3 ft. long, 1 in. diam., in a mound of stone, on bed rock, for ¼ sec. cor., with brass cap, marked ¼ S 18 in N. half, S 19 in S. half, and 1916 in S. rim; and raise a mound of stone, 2 ft. base, 1½ ft. high, N. of cor. Impracticable to dig pits or set cor. in the ground.
68.00	Ravine, 715 ft. below ridge, course N.; asc. W. slope 120 ft. to
77.90	The cor. of secs. 17, 18, 19 and 20. Land, mountainous. Soil, rocky; 4th rate. No timber. Undergrowth, catclaw, cactus, greasewood and juniper.

	N. 0°03'W., bet. secs. 17 and 18, over mountainous land, along broken W. slope through scattering undergrowth.
29.50	Wash, 20 lks. wide, course W.; asc. S. slope 150 ft. to
35.50	Desc. 170 ft. to
40.00	Set an iron post, 3 ft. long, 1 in. diam., 8 ins. in the ground and 18 ins. in a mound of stone, for ¼ sec. cor., with brass cap, marked ¼ in N., S 17 in E., and S 18 in W. half, and 1916 in S. rim; and raise a mound of stone, 2 ft. base, 1½ ft. high, N. of cor. Impracticable to dig pits or set cor. far- ther in the ground.
61.74	Spur extends W.; desc. 160 ft. to
80.00	Set an iron post, 3 ft. long, 2 ins. diam., 6 ins. in the ground and 18 ins. in a mound of stone, for cor. of secs. 7, 8, 17 and 18, with brass cap, marked T 23 N S 7 in NW., R 20 W S 8 in NE., S 17 in SE., and S 18 in SW. quadrant; and 1916 in S. rim; and raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor. Impracticable to dig pits or set cor. far- ther in the ground. Land, mountainous. Soil, rocky; 4th rate. No timber. Undergrowth, catclaw, cactus, juniper and greasewood.

	East, on a random line, bet. secs. 8 and 17.
40.00	Set temp. ¼ sec. cor.
79.80	Intersect N. and S. line 2 lks. S. of the cor. of secs.

Chains

8, 9, 16 and 17.
Thence I run
S. $89^{\circ}59'$ W., of a true line, bet. secs. 8 and 17,
over mountainous land, through scattering undergrowth.
Asc. NE. slope 380 ft. to
24.25 Ridge bears NE. and SW.; desc. broken NW. slope, 140 ft. to
39.90 Set an iron post, 3 ft. long, 1 in. diam., 10 ins. in the
ground and 16 ins. in a mound of stone, for $\frac{1}{4}$ sec. cor.,
with brass cap, marked
 $\frac{1}{4}$ S 8 in N. half,
S 17 in S. half, and
1916 in S. rim;
and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high,
N. of cor. Impracticable to dig pits or set cor. farther
in the ground.
Desc. 250 ft. to
50.20 Ravine, course N.; asc. 120 ft. to
54.00 Spur extends N.; desc. 580 ft. to
79.00 Wash, 10 lks. wide, course N. Desc. 30 ft. to
79.80 The cor. of secs. 7, 8, 17 and 18.
Land, mountainous.
Soil, rocky; 4th rate.
No timber.
Undergrowth, catclaw, cactus, greasewood and juniper.
Jan. 10, 1916.
H. P.

G. H. R.
Jan., 11, 1916.
At 9h 00m a.m., l.m.t., I set off $35^{\circ}23\frac{1}{2}'$ on the lat.
arc; and $21^{\circ}54'$ S. on the decl. arc; and determine a
meridian at the cor. of secs. 7, 8, 17 and 18.
Thence I run
West, on a random line, bet. secs. 7 and 18.
40.00 Set temp. $\frac{1}{4}$ sec. cor.
77.91 Intersect W. bdy. of Tp. ----- at the cor. of secs.
7, 12, 13 and 18, described in Book "A".
Thence I run
East, on a true line, bet. secs. 7 and 18,
over mountainous land, through scattering undergrowth.
Desc. broken E. slope 330 ft. to
18.07 Wash, 50 lks. wide, course N.; asc. on NW. slope 80 ft. to
37.91 Set an iron post, 3 ft. long, 1 in. diam., 11 ins. in the
ground, and 15 ins. in a mound of stone, for $\frac{1}{4}$ sec. cor.,
with brass cap, marked
 $\frac{1}{4}$ S 7 in N. half,
S 18 in S. half; and
1916 in S. rim;
and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high,
N. of cor. Impracticable to dig pits or set cor farther
in the ground.
Asc. broken NW. slope 30 ft. to
42.60 Spur slopes N.; desc. NE. slope 15 ft. to
43.47 Head of wash, course NE.; asc. W. slope 75 ft. to
49.70 Small spur extends N. Descend.
54.30 Wash, 10 lks. wide, course NW.; asc. NW. slope 190 ft. to
73.00 Spur, slopes N.; desc. NE. slope 60 ft. to
77.191 The cor. of secs. 7, 8, 17 and 18.
Land, mountainous.
Soil, rocky; 4th rate.
No timber.
Undergrowth, greasewood, catclaw, cactus and sagebrush.
Jan. 11, 1916.
G. H. R.

H. P.
Jan. 11, 1916.
At 9h 00m am., l.m.t., I set off $35^{\circ}23\frac{1}{2}'$ on the lat.
arc; and $21^{\circ}54'$ S. on the decl. arc; and determine a
meridian at the cor. of secs. 7, 8, 17 and 18.

Chains

Thence I run
 N. $0^{\circ}03'$ W., bet. secs. 7 and 8,
 over mountainous land, through scattering undergrowth.
 3.70 Wash, 10 lks. wide, course W.
 33.05 Wash, 30 lks. wide, course W.
 40.00 Set an iron post, 3 ft. long, 1 in. diam., 8 ins. in the
 ground and 18 ins. in a mound of stone, for $\frac{1}{4}$ sec. cor.
 with brass cap, marked
 $\frac{1}{4}$ in N.,
 S 7 in W., and
 S 8 in E. half; and
 1916 in S. rim;
 and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high,
 W. of cor. Impracticable to dig pits or set cor. far-
 ther in the ground.
 55.05 Top of spur, extends W.;
 80.00 Set an iron post, 3 ft. long, 2 ins. diam., in a mound of
 stone, for cor. of secs. 5, 6, 7 and 8, with brass cap,
 marked
 T 23 N S 6 in NW.,
 R 20 W S 5 in NE.,
 S 8 in SE., and
 S 7 in SW. quadrant; and
 1916 in S. rim;
 and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high,
 W. of cor.
 Land, mountainous.
 Soil, rocky, 4th rate.
 No timber.
 Undergrowth, catclaw, greasewood and juniper.
 At this cor. I set off $21^{\circ}54'$ S. on the decl. arc; and
 at apparent noon observe the sun on the meridian.
 The resulting lat. is $35^{\circ}24'$.

Jan. 11, 1916.

Jan. 8, 1916.
 East, on a random line, bet. secs 5 and 8.
 40.00 Set temp. $\frac{1}{4}$ sec. cor.
 79.80 Intersect N. and S. line 4 lks. S. of the cor. of secs.
 4, 5, 8 and 9.
 Thence I run
 S. $89^{\circ}58'$ W., on a true line, bet. secs. 5 and 8,
 Over level land, through scattering undergrowth.
 5.00 Asc. E. slope.
 39.90 Set an iron post, 3 ft. long, 1 in. diam., 6 ins. in the
 ground and 20 ins. in a mound of stone, for $\frac{1}{4}$ sec. cor.,
 with brass cap, marked
 $\frac{1}{4}$ S 5 in N. half,
 S 8 in S. half, and
 1916 in S. rim;
 and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high,
 N. of cor. Impracticable to dig pits or set cor. far-
 ther in the ground.
 46.00 Spur, 610 ft. above sec. cor., bears N. and S.; desc.
 610 ft. to
 79.80 The cor. of secs. 5, 6, 7 and 8.
 Land, mountainous.
 Soil, rocky; 4th rate.
 No timber.
 Undergrowth, greasewood, catclaw and cactus.

Jan. 8, 1916.

H. P.

G. H. R.
 Jan. 11, 1916.
 West, on a random line, bet. secs. 6 and 7.
 40.00 Set temp. $\frac{1}{4}$ sec. cor.
 77.68 Intersect W. bdy of Tp. 9 lks. N. of the cor. of secs.

Chains

1, 6, 7 and 12, described in Book "A".
Thence I run
 N. $89^{\circ}56'E.$, on a true line, bet. secs. 6 and 7,
 over broken mountainous land, through scattering undergrowth.
 Asc. SW. slope 120 ft. to
 10.50 Spur, extends S.; desc. SE. slope 95 ft. to
 19.80 Wash, 50 lks. wide, course SW.; asc. 110 ft. to
 37.68 Set an iron post, 3 ft. long, 1 in. diam., 9 ins. in the
 ground and 17 ins. in a mound of stone, for $\frac{1}{4}$ sec. cor.,
 with brass cap, marked
 $\frac{1}{4}$ S 6 in N. half,
 S 7 in S. half, and
 1916 in S. rim;
 and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high,
 N. of cor. Impracticable to dig pits or set cor. farther
 in the ground.
 47.20 Spur, 330 ft. above wash, extends S.; desc. 60 ft. to
 59.20 Wash, 15 lks. wide, course SW; asc. 140 ft. to
 77.68 The cor. of secs. 5, 6, 7 and 8.
 Land, mountainous.
 Soil, rocky; 4th rate.
 No timber.
 Undergrowth, greasewood, catclaw, cactus, spanish dagger
 and sage.

G. H. R.

H. P.
 N. $0^{\circ}03'W.$, on a random line, bet. secs. 5 and 6.
 40.00 Set temp. $\frac{1}{4}$ sec. cor.
 To pass cliffs, I offset 6.63 chs. E.
 Thence, N. $0^{\circ}03'W.$, on offset, to
 79.92 (counting from sec. cor.) Offset 6.63 chs. W. back to line.
 Intersect N. bdy. of Tp. 23 lks. W. of the cor. of secs.
 5, 6, 31 and 32, described in Book "A".
 Thence I run on offset, East, 6.40 chs.
 Thence S. $0^{\circ}07'W.$, parallel to true line,
 Asc. over broken mountainous land, through scattering
 undergrowth.
 39.92 Offset West, 6.40 chs. to true line, 120 ft. above sec.
 cor.
 Set an iron post, 3 ft. long, 1 in. diam., 10 ins. in the
 ground and 16 ins. in a mound of stone, for $\frac{1}{4}$ sec. cor.,
 with brass cap, marked
 $\frac{1}{4}$ in N.,
 S 5 in E., and
 S 6 in W. half; and
 1916 in S. rim;
 and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high,
 W. of cor. Impracticable to dig pits or set cor. farther
 in the ground. Thence S. $0^{\circ}07'W.$ on true line,
 Desc. along broken W. slope.
 55.00 Wash, 10 lks. wide, course SW.
 79.92 The cor. of secs. 5, 6, 7 and 8, (380 ft. below $\frac{1}{4}$ sec. cor.)
 Land, mountainous.
 Soil, rocky; 4th rate.
 No timber.
 Undergrowth, greasewood, juniper, catclaw and cactus.

Jan. 11, 1916.

H. P.

For table of latitudes and departures, with closing
 errors, see Book "A".

GENERAL DESCRIPTION.

This township is rough mountainous land in the southern and western portions, rolling mountainous in the north-east, and wide valleys and low rolling hills in the central part.

The soil is rocky and worthless in the mountains and of 2nd and 3rd rate in the valleys, suitable for cultivation if irrigation were possible.

The township contains no water.

Vegetation consists of desert growth such as greasewood, catclaw, cactus, juniper and sage.

There are no settlers.

U. S. Surveyor.

U. S. Assistant.

U. S. Surveyor.

U. S. Assistant.

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Pages 38 & 39
are Blank

FOR
CERTIFICATES OF UNITED STATES SURVEYORS
AND UNITED STATES TRANSITMEN

See Books "A" and "C."

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, *March 9*, 1918.

re-
The foregoing field notes of the survey of the _____
East boundary, and survey of the _____
Subdivision Lines of _____

TOWNSHIP 23 NORTH, RANGE 20 WEST,

of the Gila and Salt River Base and Meridian, in the State of Arizona,

(Theo. O. Johnson, and Guy H. Richardson, U.S. Surveyors, and
executed by Edward O. Lyman and Hugo Price, U.S. Transitmen, U.S. Transitmen,
under special instructions dated January 6, 1915, for Group 44 _____, having been
critically examined, and the necessary corrections and explanations made, the said field notes, and the
resurveys and
surveys they describe, are hereby approved.

U. S. Surveyor General.

of Arizona.

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