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JUN 24 1917

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Book "I"
(Subdivisions)

FIELD NOTES

BOOK 3141

OF THE SURVEY OF THE

Completion of the Subdivision Lines,

of

TOWNSHIP 22 NORTH, RANGE 20 WEST,

Of the Gila and Salt River Base and Meridian,

In the State of Arizona.

EXECUTED BY

Theo. O. Johnston, U.S. Surveyor,

and

Edward O. Lyman, U.S. Transitman,

In the presence of _____, under instructions dated January 6, 1915,
issued by the United States Surveyor General to govern surveys included in
Group No. 44 _____, which were approved by the Commissioner of the General Land
Office, January 26, 1915.

Survey commenced March 25, 1915.

Survey completed May 5, 1915.

Executed under Assignment
Instructions dated Jan. 31, 1915.

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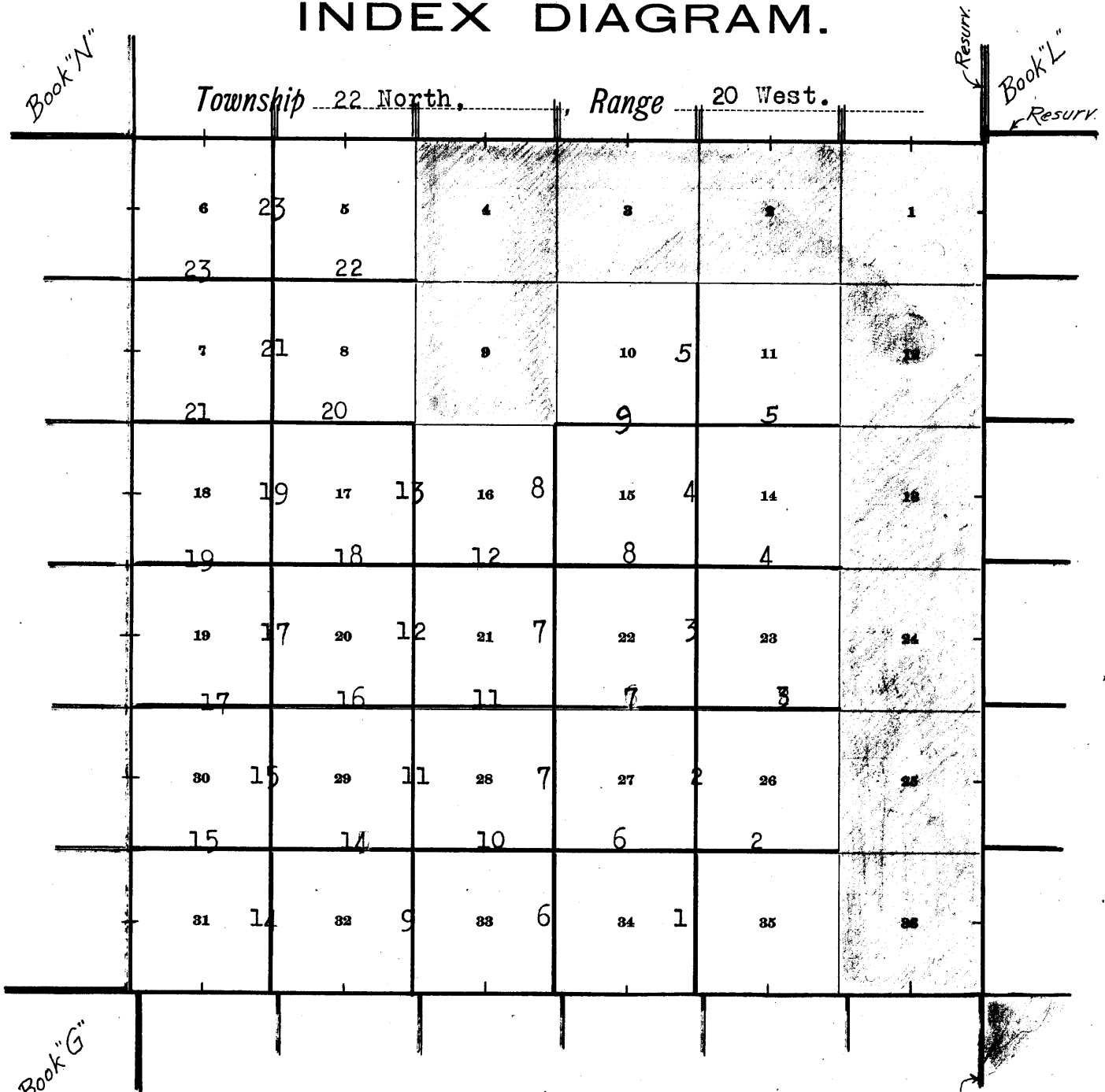
1A

Book No. 3141

Book "I"
(Subdivisions)
Group 44

BOOK 3141

INDEX DIAGRAM.



———— Notes in this book (indexed)

———— Notes in book "A" Group 44

———— Notes in book "E" Group 44

———— Notes in book "F" Group 44

———— Notes in book "J" Group 44

==== Notes in book "M" Group 44

———— Accepted surveyed lines.

Area surveyed as per accepted plats on file.

Resurv.

Chains

Survey commenced Mar. 25, 1915, and executed jointly by Theo. O. Johnston, U. S. Surveyor, using a Young and Sons' light mountain transit No. 8493, and Edward O. Lyman, U. S. Transitman, using a Young and Sons' light mountain transit No. 8490. Both instruments are described, with record of approval by the assistant supervisor of surveys and field tests, in Books "A" and "B".

All measurements made with steel tapes and clinometers.

Survey was made by means of transit lines projected with carefully measured angles, from a meridian determined by observation on Polaris at western elongation, in sec. 16, T. 21 N., R. 20 W., a record of which appears in Book "B".

The magnetic bearing of the true meridian, at 8h 00m a.m. l.m.t., is N. 15° 15' W.; the angle thus determined gives the mag. decl. 15° 15' E.

The initials "T. O. J." and "E. O. L." are inserted in the following notes at the beginning and ending of those portions of the notes describing the surveys executed by Theo. O. Johnston and Edward O. Lyman, respectively.

T. O. J.
E. O. L.

E. O. L.

Mar. 25, 1915. From cor. of secs. 34 and 35 on S. bdy. of Tp. 16 (originally established as cor. of secs. 2, 3, 34 and 35, but changed to refer to 2 secs., as described in Book "F.")

- N. 0° 01' W., bet. secs. 34 and 35,
over mountainous land, through scattering undergrowth.
- 1.80 W. edge of wash, 15 lks. wide, from N. 10° E.; course S. 10° E.
Asc. along SE. slope.
- 12.40 Thence along E. slope.
- 31.00 Wash, 8 lks. wide, course E. 150 lks. and thence S. 10° E.
- 37.65 Spur slopes S. 15° E.; cross SE. slope.
- 40.00 Set an iron post, 3 ft. long, 1 in. diam., 5 ins. in the ground and 21 ins. in a mound of stone, for 1/2 sec. cor., with brass cap, marked
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 1/2 ft. high, W. of cor. Impracticable to dig pits or set cor. farther in the ground.
- 47.10 Asc. across E. slope to S. edge of mesa, 140 ft. above wash noted at 31 chs., forming divide bet. Colorado river and Sacramento valley, bears E. and W.; thence across gently rolling mesa.
- 59.85 Desc. NW. slope.
- 71.82 Wash, 3 lks. wide, course NE.
- 80.00 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 22 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;
and raise a mound of stone, 2 ft. base, 1 1/2 ft. high, W. of cor.

Land, mountainous for south 47 chs., and mesa for balance. Soil, sandy and stony; 4th rate. No timber. Undergrowth, juniper, cactus and greasewood.

Chains
 East, on a random line, bet. secs. 26 and 35.
 40.00 Set temp. $\frac{1}{4}$ sec. cor.
 79.92 Intersect N. and S. line 40 lks. S. of the cor. of secs. 25, 26, 35 and 36, which is an iron post, 2 ins. diam., with brass cap, marked, set and witnessed as described by the surveyor general.
 Thence I run
 S. $89^{\circ}43'W.$, on a true line, bet. secs. 26 and 35, Asc. E. slope over mountainous land, through scattering undergrowth.
 3.00 Desc. SW. slope.
 6.40 Wash, 15 lks. wide, course SE.; asc. NE. slope 200 ft. to
 15.90 Spur slopes SE.; desc. SW. slope 60 ft. to
 22.30 Wash, 15 lks. wide, course S. $30^{\circ}E.$; asc. 280 ft. on S. slope to
 32.30 Spur extends SE.; desc. SW. slope 30 ft. to
 37.30 Wash, 8 lks. wide, course SE.; asc. NE. slope 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 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.
 41.50 Edge of mesa bears N. and S.; thence across top, descending gradually.
 62.95 Wash, 4 lks. wide, course NW.; thence along N. slope.
 74.95 Wash, 3 lks. wide, course NE.; asc. E. slope.
 79.92 The cor. of secs. 26, 27, 34 and 35.
 Land, mesa for E. $28\frac{1}{2}$ chs., and rough mountains for balance.
 Soil, sandy and stony; 4th rate.
 No timber.
 Undergrowth, juniper, greasewood, cactus, catclaw and yucca.
 E. O. L.

F. O. J.
 N. $0^{\circ}01'W.$, bet. secs. 26 and 27, over rolling mountainous land, through scattering undergrowth.
 10.00 Wash, 50 ft. below sec. cor., 200 lks. wide, course NE.
 28.50 Same wash, 50 lks. wide, course NW.
 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 the 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.
 51.00 Ravine, 100 lks. wide, course SW.; asc. S. slope of low ridge 75 ft. to
 66.00 Top of low ridge bears NE. and SW.; desc. NW. slope 80 ft. to
 76.50 Wash, 200 lks. wide, course SW.
 80.00 Set an iron post, 3 ft. long, 2 ins. diam., in a mound of stone, for cor. of secs. 22, 23, 26 and 27, with brass cap, marked
 T 22 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. Impracticable to dig pits or set cor. in the ground.
 Land, mountainous and rolling mountainous. Soil, rocky; 3rd. rate.
 No timber. Undergrowth, sage and juniper. Mar. 25, 1915

Chains May 3, 1915.

40.00 **East**, on a random line, bet. secs. 23 and 26.
 Set temp. $\frac{1}{4}$ sec. cor.

79.66 Intersect N. and S. line 34 lks. **S.** of the cor. of secs. 23, 24, 25 and 26, which is an iron post, 2 ins. diam., with brass cap, set, marked and witnessed as described by the surveyor general.
 Thence I run
S. 89° 45' W., on a true line, bet. secs. 23 and 26, over mountainous land, through scattering undergrowth.

3.60 Asc. over cliff 75 ft. high; bears N. and S.
 7.15 Asc. over cliff 25 ft. high; bears N. and S.
 10.20 Top of malpais ridge, 270 ft. above sec. cor., bears N. and S.; Desc. W. slope.
 20.30 Cliff, 10 ft. high, bears N. and S.
 35.65 Bottom of canyon, 300 ft. below ridge, course N. 67 $\frac{1}{2}$ ° W.; thence along N. slope.
 39.83 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 23 in N., and
 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.

60.00 100 ft. above canyon; desc. W. slope 170 ft. to
 76.85 Bottom of canyon, course S. 22 $\frac{1}{2}$ ° W.
 79.66 The cor. of secs. 22, 23, 26 and 27.
 Land, mountainous.
 Soil, rocky; 4th rate.
 No timber.
 Undergrowth, sage and juniper.

N. 0° 01' W., bet. secs. 22 and 23.
 Asc. rocky S. slope, through scattering undergrowth.

8.30 Top of spur, 150 ft. above sec. cor., extends SE.; desc. along NE. slope.
 21.25 Bottom of canyon, 120 ft. below spur, course S. 22 $\frac{1}{2}$ ° E.; thence across point of spur sloping W.
 25.25 Same canyon, course S. 22 $\frac{1}{2}$ ° W.; asc. S. 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.

55.00 Top of ridge 170 ft. above canyon; bears N. 22 $\frac{1}{2}$ ° W., and S. 22 $\frac{1}{2}$ ° E.; desc. gradually along E. slope.
 66.50 Head of canyon, course N. 22 $\frac{1}{2}$ ° W.; line runs along W. slope.
 80.00 On W. slope of rocky ridge, 150 ft. below ridge,
 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 22 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, mountainous.
 Soil, rocky; 4th rate.
 Undergrowth, juniper and sage.

May 3, 1915.

Chains

- May 4, 1915.
East, on a random line, bet. secs. 14 and 23.
- 40.00 Set temp. $\frac{1}{4}$ sec. cor.
79.64 Intersect N. and S. line 8 lks. N. of the cor. of secs. 13, 14, 23 and 24, which is an iron post, 2 ins. diam., with brass cap, set, marked and witnessed as described by the surveyor general.
Thence I run
N. $89^{\circ}57'W.$, on a true line, bet. secs. 14 and 23.
Asc. E. slope over cliffs, through scattering undergrowth.
- 12.00 Top of ridge, 440 ft. above sec. cor., brs. N. and S.; desc. W. slope.
18.00 Head of canyon, course N.; asc. over broken E. slope.
39.82 On top of ridge, 300 ft. above canyon, bearing N. and S., 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.
Desc. W. slope.
- 44.00 Draw, course SW.; asc. along SE. slope, 85 ft. to
51.30 Top of spur sloping SW.; desc. SW. slope 300 ft. to
79.64 The cor. of secs. 14, 15, 22 and 23.
Land, mountainous.
Soil, rocky; 4th rate.
No timber.
Undergrowth, juniper.
- May 4, 1915.
-
- May 3, 1915.
N. $0^{\circ}01'W.$, bet. secs. 14 and 15.
Line runs along W. slope, over mountainous land.
- 17.50 Ravine, 5.00 chs. wide, 30 ft. deep, course W.
30.00 Top of spur, 140 ft. above ravine, extends W.; thence along NE. slope.
35.00 Thence along 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 14 in E., and
S 15 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.
- 63.70 Top of spur, 185 ft. above $\frac{1}{4}$ sec. cor., extends W.; desc. rocky N. slope 200 ft. to
80.00 On W. slope of rocky ridge
Set an iron post, 3 ft. long, 2 ins. diam., in a mound of stone, for cor. of secs. 10, 11, 14, and 15, with brass cap, marked
T 22 N. S 10 in NW.,
R 20 W S 11 in NE.,
S 14 in SE., and
S 15 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.
- May 3, 1915.

Chains

May 4, 1915.
 East, on a random line, bet. secs. 11 and 14.
 40.00 Set temp. $\frac{1}{4}$ sec. cor.
 79.70 Intersect N. and S. line 11 lks. N. of the cor. of secs. 11, 12, 13 and 14, which is an iron post, 2 ins. diam., with brass cap, set, marked and witnessed as described by the surveyor general.
 Thence I run
 N. $89^{\circ}55'W.$, on a true line, bet. secs. 11 and 14.
 Asc. E. slope, over mountainous land, through scattering undergrowth, 175 ft. to
 12.00 Summit of ascent.; desc. 65 ft. to
 18.70 Wash, 2.00 chs. wide, course N.; asc. E. slope 80 ft. to
 23.55 Top of spur extends N.; desc. W. slope 45 ft. to
 29.70 Canyon, course N. $22\frac{1}{2}^{\circ}E.$; asc. along broken S. slope.
 39.85 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 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. in the ground.
 48.90 Cliff, 10 ft. high, brs. N. and S.
 60.70 Cliff, 15 ft. high, bears N. and S.
 70.00 Top of ridge, 440 ft. above canyon, bears N. and S.; desc. W. slope 165 ft. to
 79.70 The cor. of secs. 10, 11, 14 and 15.
 Land, mountainous.
 Soil, rocky; 4th rate.
 No timber.
 Undergrowth, some scattering juniper on E. 20 chs.
 May 4, 1915.

 May 3, 1915.
 N. $0^{\circ}01'W.$, on a random line, bet. secs. 10 and 11.
 40.00 Set temp. $\frac{1}{4}$ sec. cor.
 80.38 Intersect E. and W. line 42 lks. E. of the cor. of secs. 2, 3, 10 and 11, which is an iron post, 2 ins. diam., with brass cap, set, marked and witnessed as described by the surveyor general.
 Thence I run
 S. $0^{\circ}19'E.$, on a true line, bet. secs. 10 and 11.
 Desc. rocky S. slope, over mountainous land, 130 ft., through scattering undergrowth, to
 11.63 Canyon, course W.; asc. N. slope.
 40.38 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 10 in W., and
 S 11 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.
 Leave undergrowth.
 41.00 Top of ridge, 550 ft. above canyon, bears E. and W.; desc. broken SW. slope 380 ft. to
 71.40 Head of canyon, course W.; asc. W. slope 35 ft. to
 80.38 The cor. of secs. 10, 11, 14 and 15.
 Land, mountainous.
 Soil, rocky; 4th rate.
 No timber.
 Undergrowth, juniper and sage.
 May 3, 1915.

Chains

Mar. 25, 1915. From cor. of secs. 33 and 34 on S. bdy. of Tp.,
 (originally established as cor. of secs. 3, 4, 33 and 34, and
 but changed to refer to 2 secs., as described in Book "F.")
 N. 0° 02' W., bet. secs. 33 and 34.
 Desc. along broken W. slope, over mountainous land.
 2.00 Canyon, course NW.; continue on W. slope.
 16.30 Canyon, course SW.; asc. S. slope 175 ft. to
 36.90 Top of limestone ridge bears E. and W.
 40.00 On white limestone ridge
 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 33 in W. half,
 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. Impracticable to dig pits or set cor. in
 the ground.
 51.56 Desc. over broken NE. slope.
 55.00 Desc. over, cliff, 25 ft. high; bears E. and W.
 57.30 Bottom of canyon, 80 ft. below ridge, course W.; asc. along
 broken W. slope.
 68.00 Wash, 150 lks. wide, course SW.
 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 22 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, $1\frac{1}{2}$ ft. high,
 W. of cor.
 Land, mountainous.
 Soil, rocky; 4th rate.
 No timber.

40.00 East, on a random line, bet. secs. 27 and 34.
 Set temp. $\frac{1}{4}$ sec. cor.
 80.20 Intersect N. and S. line 18 lks. N. of the cor. of secs.
 26, 27, 34 and 35.
 Thence I run
 N. 89° 52' W., on a true line, bet. secs. 27 and 34,
 over rolling mountainous land, through scattering under-
 growth. Ascend E. slope.
 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 27 in N. half,
 S 34 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.
 49.50 Top of main divide bears N. and S.; desc. over NW. slope
 over mountainous land.
 70.20 Thence on W. slope.
 80.20 600 ft. below divide,
 The cor. of secs. 27, 28, 33 and 34.
 Land, rolling mountainous and mountainous.
 Soil, rocky; 4th rate.
 No timber.
 Undergrowth, sage.

Mar. 25, 1915.
 T. O. J.

Chains	
	E. O. L. May 3, 1915. N.0°02'W., bet. secs. 27 and 28. Desc. across eroded W. slope, through scattering brush.
12.70	Small gulch, course W.
15.80	Gulch, course SW.; 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 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.
60.25	Top of ridge, 650 ft. above gulch, bears SE. and W.; desc. steep NW. slope along branch ridge which bears N.20°E., and S.20°W.
69.00	Ft. of steep descent, 150 ft. below top.; thence desc. gradually to
80.00	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 22 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. No timber. Undergrowth, cactus, catclaw, greasewood and yucca.

40.00	East, on a random line, bet. secs. 22 and 27. Set temp. $\frac{1}{4}$ sec. cor.
80.42	Intersect N. and S. line 23 lks. S. of the cor. of secs. 22, 23, 26 and 27. Thence I run S.89°50'W., on a true line, bet. secs. 22 and 27, across S. slope, over mountainous land, through scattering undergrowth.
7.50	Cross spur sloping SW.; desc. W. slope 150 ft. to
27.45	Wash, 25 lks. wide, course N.35°E. for 8 chs., and thence N.; asc. gradual E. slope.
40.21	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.
41.70	Wash, 6 lks. wide, course NE.; thence on SE. slope.
78.35	Top of ridge, 250 ft. above wash noted at 27.45 chs., bears N.30°E., and S.30°W.; desc. 60 ft. to
80.42	The cor. of secs. 21, 22, 27 and 28. Land rolling mountainous mesa. Soil, sandy, gravelly and rocky; 4th rate. No timber. Undergrowth, greasewood, juniper, cactus and catclaw.

19.95	N.0°02'W., bet. secs. 21 and 22, across steep W. slope, through scattering undergrowth.
30.75	Desc. NW. slope 250 ft. to
34.00	Head of gulch, course W.; asc. SW. slope 35 ft. to Spur extends W.; desc. NW. slope.

Chains

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 21 in W., and S 22 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.

47.15 Head of gulch, 450 ft. below spur, course NW.; asc. SW. slope 100 ft. to

55.25 Desc. NW. slope 115 ft. to

64.70 Head of canyon, course W.; asc. SW. slope 140 ft. to

80.00 Set an iron post, 3 ft. long, 2 ins. diam., 24 ins. in the ground, for cor. of secs. 15, 16, 21 and 22, with brass cap, marked T 22 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, $1\frac{1}{2}$ ft. high, W. of cor.

Land, mountainous.
Soil, rocky; 4th rate.
No timber.
Undergrowth, juniper, greasewood, catclaw, cactus and yucca.

May 3, 1915.
E. O. L.

T. O. J.
May 4, 1915.
East, on a random line, bet. secs. 15 and 22.

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

80.28 Intersect N. and S. line 15 lks. N. of the cor. of secs. 14, 15, 22 and 23.
Thence I run N. $89^{\circ}54'$ W., on a true line, bet. secs. 15 and 22.
Desc. W. slope, over mountainous land, through scattering undergrowth.

2.30 Canyon, course NW.; asc. rocky E. slope 200 ft. to

14.60 Top of ridge bears N. and S.; desc. W. slope.

40.14 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 15 in N. half, S 22 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.

45.00 Canyon, 420 ft. below ridge, course N. $22\frac{1}{2}^{\circ}$ W.; asc. E. slope 280 ft. to

76.15 Top of main divide bears N. and S.; desc. W. slope 100 ft. to

80.28 The cor. of secs. 15, 16, 21 and 22.
Land, mountainous.
Soil, rocky; 4th rate.
No timber.
Undergrowth, sage and juniper.

May 4, 1915.
T. O. J.

E. O. L.
N. $0^{\circ}02'$ W., on a random line, bet. secs. 15 and 16.

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

80.30 Intersect E, and W. line 5 lks. E. of the cor. of secs.

Chains

9, 10, 15 and 16, which is an iron post, 2 ins. diam., with brass cap, set, marked and witnessed as described by the surveyor general.
 Thence I run
 S.0°04'E., on a true line, bet. secs. 15 and 16.
 Desc. S. slope, over mountainous land, through scattering undergrowth, 100 ft. to
 5.75 Head of ravine, course S.75°E.; asc. SE. slope 55 ft. to
 12.60 Ridge bears NW. and SE.; desc. SW. slope 176 ft. to
 35.30 Thence on W. slope.; asc. 50 ft. to
 40.30 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 15 in E., and
 S 16 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.
 51.50 Ravine, course NW.; thence on NW. slope.
 58.80 Spur, 220 ft. above $\frac{1}{4}$ sec. cor., slopes W.; thence on SW. slope.
 65.30 Desc. gradually on W. slope.
 80.30 The cor. of secs. 15, 16, 21 and 22.
 Land, mountainous.
 Soil, rocky; 4th rate.
 No timber.
 Undergrowth, greasewood, cactus, yucca, catclaw and juniper.

From cor. of secs. 9, 10, 15 and 16,
 East, on a random line, bet. secs. 10 and 15.
 40.00 Set temp. $\frac{1}{4}$ sec. cor.
 80.38 Intersect N. and S. line 3 lks. S. of the cor. of secs. 10, 11, 14 and 15.
 Thence I run
 S.89°59'W., on a true line, bet. secs. 10 and 15.
 Desc. W. slope, over mountainous land, through scattering undergrowth, 100 ft. to
 5.80 Gulch, course NW.; asc. NE. slope 15 ft. to
 11.50 Summit; desc. NW. slope.
 20.40 Desc. along gulch 165 ft. to
 33.63 Same gulch, course S.65°W.; thence along SW. slope.
 40.19 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., and
 S 15 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.
 46.00 Desc. W. slope, 100 ft. to
 56.25 Wash, 25 lks. wide, course N.15°E.; in small valley.; asc. SE. slope 300 ft. to
 80.38 The cor. of secs. 9, 10, 15 and 16.
 Land, mountainous.
 Soil, gravelly and rocky; 4th rate.
 No timber.
 Undergrowth, greasewood, cactus, catclaw, yucca and juniper.

May 4, 1915.
E. O. L.

T. O. J.
 Mar. 26, 1915. From cor. of secs. 32 and 33 on S. bdy. of Tp. (originally established as cor. of secs. 4, 5, 32 and 33, but changed to refer to 2 secs., as described in Book "F.")
 N.0°03'W., bet. secs. 32 and 33.
 Desc. NW. slope 150 ft., over mountainous land, to Bottom of main canyon, course SW.; small stream of good water in bottom; asc. broken S. slope.
 7.10

Chains	
16.00	Top of ascent, 130 ft. above bottom of canyon; descend 30 ft. to
22.00	Bottom of deep, narrow canyon, 36 ³⁰ course SE. below top. in canyon; Asc. over broken SW. slope.
30.00	Top of ridge, 310 ft. above canyon noted at 7.10 chs., bears E. and W.; desc. broken N. 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 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.
41.60	Bottom of canyon, 280 ft. below ridge, course NW.; asc. broken SW. slope 260 ft. to
55.90	Top of ridge bears E. and W.; desc. broken NE. slope.
58.70	Desc. over cliff 250 ft. high, bearing E. and W.
64.40	Bottom of canyon 300 ft. below ridge, course W.; stream in bottom.; asc. 30 ft. to
67.40	Top of low spur projects W.
70.20	Canyon, course S. $22\frac{1}{2}^{\circ}$ W.; small stream of good water in bottom.
80.00	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 22 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.

40.00	East, on a random line, bet. secs. 28 and 33. Set temp. $\frac{1}{4}$ sec. cor.
79.94	Intersect N. and S. line 7 lks. N. of the cor. of secs. 27, 28, 33 and 34. Thence I run N. $89^{\circ}57'$ W., on a true line, bet. secs. 28 and 33. Desc. broken W. slope, over mountainous land, 210 ft. to
18.10	Canyon, course SW.; asc. broken E. slope 25 ft. to
21.70	Top of ridge bears N. and S.; desc. W. slope 170 ft. to
29.90	Ft. of descent; asc. SE. slope 50 ft. to
35.70	Summit; desc. 90 ft. on W. slope, to
39.97	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 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. Impracticable to dig pits or set cor. in the ground. Desc. W. slope 50 ft. to
45.60	Draw, course S.; asc. NE. slope 150 ft. to
51.85-	Top of ridge bears N. and S.; desc. over broken NW. slope.
55.00	Thence over W. slope.
60.85	Canyon, 265 ft. below ridge, course SW.; Stream in bottom; asc. SE. slope 30 ft. to
65.65	Top of ridge bears N. and S.; desc. W. slope 260 ft. to
78.95	Bottom of canyon, course S.; asc. E. slope to
79.94	The cor. of secs. 28, 29, 32 and 33. Land, mountainous. Soil, rocky; 4th rate. No timber.

Mar. 26, 1915.
T. O. J.

Chains

E. O. L.
 Apr. 19, 1915.
 N.0°03'W., bet. secs. 28 and 29.
 Asc. across E. slope, over bare rock; scattering under-
 growth.

9.45 Thence on SE. slope; leave bare rock.
 23.25 Summit of ascent, 300 ft. above sec. cor.; desc. NE. slope
 30 ft. to
 32.60 Gulch, course S.35°E.; asc. S. 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 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.

46.35 Ridge, 320 ft. above gulch, bears E. and W.; desc. NW.
 slope over broken cliffs, 260 ft. to
 59.88 Bottom of gulch, course S.70°W. for 3 chs., and thence
 N.70°W.; small stream in bottom.; asc. SW. slope 350
 ft. to
 79.00 Ridge bears E. and W.; desc. 30 ft. to
 80.00 Set an iron post, 3 ft. long, 2 ins. diam., 24 ins. in the
 ground, for cor. of secs. 20, 21, 28 and 29, with brass
 cap, marked
 T 22 N S 20 in NW.,
 R 20 W S 21 in NE.,
 S 28 in SE., and
 S 29 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, juniper, yucca and catclaw.
 Apr. 19, 1915.

May 3, 1915.
 East, on a random line, bet. secs. 21 and 28.
 80.06 Intersect N. and S. line at cor. of secs. 21, 22, 27 and
 28.
 Thence I run
 West, on a true line, bet. secs. 21 and 28.
 Desc. W. slope, over mountainous land, through scattering
 undergrowth, 320 ft. to
 12.50 Canyon, course N.15°W.; asc. NE. slope 100 ft. to
 23.60 Spur slopes N.; top of butte, about 200 ft. above line,
 bears S., about 4 chs.; desc. along N. slope.
 27.50 Spur slopes N.; thence desc. on NW. slope.
 40.03 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 21 in N. half,
 S 28 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.

46.90 Thence on W. slope.
 50.55 Bottom of canyon, 480 ft. below spur, course N.; asc. E.
 slope 50 ft. to
 52.10 Spur slopes N.; desc. 90 ft. to
 56.40 Thence on NW. slope.
 64.55 Gulch, course NE.; asc. on NE. slope.
 71.25 Thence on E. slope.
 77.10 Top of ridge, 300 ft. above station at 56.40 chs., bears
 N. and S.; desc. NW. slope 100 ft. to
 80.06 The cor. of secs. 20, 21, 28 and 29.

Chains

Land, mountainous.
Soil, rocky; 4th rate.
No timber.
Undergrowth, greasewood, live oak, juniper, cactus and yucca.

May. 3, 1915.

Apr. 24, 1915.
N.0°03'W., bet. secs. 20 and 21.
Desc. on W. slope, over mountainous land, through scattering undergrowth.

13.90 Spur slopes NW.; desc. N. slope over nearly exposed country rock.

22.93 Gulch, course N.30°E. for 100 lks. and thence NW.

30.12 Same gulch, course N.30°W.

32.05 Same gulch, course N.30°E.

37.95 Canyon, 700 ft. below sec. cor., course N.75°W.; stream, 2 lks. wide, 1 in. deep, in bottom; asc. SW. slope.

40.00 On rock ledge facing SE.,
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 20 in W., and
S 21 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.

45.37 Spur, 60 ft. above canyon, slopes NW.;

45.87 Rock, 50 ft. high, bears W., 50 lks. dist.; desc. NE. slope 110 ft. to

50.30 Bottom of canyon, course W.; asc. SW. slope over broken cliffs, 280 ft. to

63.30 Spur slopes W.; desc. 25 ft. to

68.40 Gulch, course SW.; asc. S. slope over broken cliffs, 280 ft. to

80.00 Point for sec. cor. falls on ledge, where it is impossible to set same: therefore at

79.87 Set an iron post, 3 ft. long, 2 ins. diam., in a mound of stone in niche of solid ledge, for witness cor. to cor. of secs. 16, 17, 20 and 21, with brass cap, marked

T 22 N S 17 in NW.,
R 20 W S 16 in NE.,
S 21 in SE., and
S 20 in SW. quadrant;
WC in N. 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.

Land, mountainous.

Soil, rocky; 4th rate.

No timber.

Undergrowth, greasewood, cactus, catclaw and juniper.

Apr. 24, 1915.

May 4, 1915.

From the true point for cor. of secs. 16, 17, 20 and 21, I run East on a random line, bet secs. 16 and 21.

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

79.80 Intersect N. and S. line 16 lks. S. of the cor of secs. 15, 16, 21 and 22.

Thence I run

S.89°53'W., on a true line, bet. secs. 16 and 21, over mountainous land, through scattering undergrowth. Desc. steep W. slope.

Chains.	
9.50	Thence on SW. slope.
12.70	Gulch, 310 ft. below sec.cor., course SW.; ascend SE.slope 35 ft.to
16.30	Top of rocky spur extends SW.; descend W.slope, 90 ft.to
18.80	Gulch, course SW.; ascend SE. slope 45 ft.to
23.30	Spur extends SW.; descend W. slope, 190 ft.to
29.80	Gulch, course SW.; ascend SE. slope, 30 ft.to
33.80	Spur slopes SW.; descend 100 ft.to
38.70	Gulch, course S.; ascend E. slope, 50ft.to
39.90	Set an iron post, 3 ft.long, 1 in. in diam., 12 ins. in the ground, and 14 ins. in a mound of stone 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. Impracticable to dig pits or set cor. farther in the ground.
44.50	Top of spur, 160 ft. above gulch, extends S.; descend 50 ft.to
53.10	Foot of cliff, 40 ft.high, brs.N. and S.; ascend 160 ft.to
54.95	Top of main spur, extends SW.; descend W. slope, over broken cliffs 425 ft.to
79.80	The true point for cor.of secs.16,17,20 and 21. Land, mountainous. Soil, rocky, 4th rate. No timber. Undergrowth, greasewood, juniper, cactus, catclaw and yucca.

	From true point for cor.of secs.16,17,20 and 21, I run, N.0°03'W., on a random line, bet.secs.16 and 17.
40.00	Set temp, $\frac{1}{4}$ sec.cor.
76.53	Top of precipitous cliffs, over which it is impossible to descend. I therefore offset as follows: East, 10.00 chs., thence N.0°3'W. 3.95 chs. intersecting E.& W.line at
80.48	A point 28 lks.E.of the witness cor.to cor.of secs.8,9, 16 and 17, which is an iron post, 2 ins. diam., with brass cap, set, marked and witnessed as described by the surveyor general. This W.C. being established 10.00 chs.E. of true cor.point the random line pro- jected N.0° 3' W., would fall 28 lks.E.of cor.point, resulting in a true course and dist.for the line bet. secs. 16 and 17 of S.0°15'E., 80.48 chs. As true cor. point is inaccessible, I begin survey of true line by offset as follows: From witness cor. run S.0°15'E. 3.95 chs. Over broken cliffs facing NE. Asc. 50 ft.for 2.00 chs.on this line, thence over bare rocks. Thence West, 10.00 chs. descending over broken cliffs facing west. Return to true sec.line at
3.95	Set temp.stake at this point to be used in connection with survey of line, bet. secs.8 and 17. Thence S.0° 15'E., on true line, bet. secs.16 and 17, measuring from cor.point. Over mountainous land, throughscattering undergrowth.
4.45	Head of canyon, course W.; ascend gradually along NW.slope, 80 ft.to
18.40	Top of rocky spur extends W.; descend SW.slope, 75 ft.to
25.60	Canyon, course NW.; ascend over cliffs.
40.48	Set an iron post, 3 ft.long, 1 in. 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 16 in E., and S 17 in W.half; and 1915 in S.rim;

14. Partial Subdivision of Township 22 North, Range 20 West.

Chains.	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.
41.50	Top of spur, in saddle, 225 ft. above canyon, extends W.; descend 90 ft. to
44.80	Gulch, course SW.; ascend NW. slope, 50 ft. to
52.20	Top of spur extends SW. (in saddle); desc. 200 ft. to
59.80	Ravine, course SW.; heads in base of white rock 2 chs. E. of line; water in holes, in bottom of ravine; ascend.
61.25	Spur extends SW.; descend.
65.35	Canyon, course W.; ascend 350 ft. to
75.50	Top of ridge, brs. SE. and NW.; descend over broken cliffs, facing SE., 110 ft. to
80.48	True point for cor. of secs. 16, 17, 20 and 21. Land, mountainous. Soil, rocky, 4th rate. No timber. Undergrowth, greasewood, juniper, cactus, catclaw and scrub oak.
May 4, 1915.	

	Mar. 26, 1915. From the cor. of secs. 31 and 32, on S. bdy. of Tp. (originally established as cor. of secs. 5, 6, 31 and 32, but changed to refer to 2 secs. as described in Book "F.")
	N. 0° 03' W., bet. secs. 31 and 32.
	Descend N. slope, through scattering undergrowth.
.75	Descend over broken cliffs, 115 ft. to
2.15	Enter Split Rock wash, course W.
9.00	Leave same, and ascend S. slope.
15.80	Spur, 120 ft. above wash, slopes SW.; descend NW. slope, 25 ft. to
19.55	Wash, 5 lks. wide, course W.; asc. SW. slope, 100 ft. to
29.40	Spur extends W.; desc. NW. slope, 110 ft. to
40.00	On NE. slope, at top of cliff facing NE. Set an iron post, 3 ft. long, 1 in. in diam., in a mound of stone for ¼ sec. cor., with brass cap, marked ¼ 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, 1½ ft. high, W. of cor. Impracticable to dig pits or set cor. in the ground. Desc. over cliffs, 115 ft. to
43.30	Wash, 40 lks. wide, course W.; ascend S. slope, 120 ft. to
51.70	Spur extends SW.; thence along W. slope.
65.00	Spur slopes N. 30° W.
74.40	Spur slopes N. 70° W.
76.40	Wash, 10 lks. wide, course S. 80° W., for 5 chs., and thence N. 65° W.
80.00	In edge of gulch, course SW. for 7½ chs., and thence N. 70° W. Set an iron post 3 ft. long, 2 ins. in diam., in a mound of stone (on bedrock) for cor. of secs. 29, 30, 31 and 32, with brass cap, marked T 22 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.
	From cor., face of rock, which I mark X B0, brs. N. 60° E., 5 lks. dist.
	Land, mountainous. Soil, sandy and rocky, 4th rate. No timber. Undergrowth, greasewood, mesquite, cactus, catclaw and sage.

	East, on a random line, bet. secs. 29 and 32.
40.00	Set temp. ¼ sec. cor.
79.58	Intersect N. and S. line, 10 lks. N. of the cor. of secs. 28, 29, 32 and 33.

Chains

Thence I run
 N.89°56'W., on a true line, bet. secs. 29 and 32.
 Asc. over mountainous land, through scattering under-
 growth.

12.60 Asc. over broken cliffs, on SE. slope.
 29.80 Thence over NE. slope.
 39.79 750 ft. above sec. cor., on N. slope of peak, the top of
 which bears SE., 2 chs. dist.,
 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 29 in N. half,
 S 32 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.

60.33 Desc. over broken cliffs.
 79.58 N. edge of gulch, course from S.80°E. to S.80°W.
 1130 ft. below $\frac{1}{4}$ sec. cor.,
 The cor. of secs. 29, 30, 31 and 32.
 Land, mountainous.
 Soil, rocky; 4th rate.
 No timber.
 Undergrowth, greasewood, juniper, catclaw and cactus.
 Mar. 26, 1915.

Apr. 13, 1915.
 West, on a random line, bet. secs. 30 and 31.
 40.00 Set temp. $\frac{1}{4}$ sec. cor.
 79.74 Intersect W. bdy. of Tp. 12 lks. S. of the cor. of secs.
 25, 30, 31 and 36, which is an iron post, 3 ins. diam.,
 with brass cap, set, marked and witnessed as described
 by the surveyor general.
 Thence I run
 S.89°55'E., on a true line, bet. secs. 30 and 31.
 Asc. NW. slope, through scattering undergrowth, 80 ft. to
 7.40 Spur extends N.; desc. NE. slope 50 ft. to
 15.53 Gulch, course N.75°W.; asc. SW. slope.
 36.10 Gulch, course SW.; asc. SW. slope.
 39.74- 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 30 in N. half,
 S 31 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.

40.00 Spur, 280 ft. above gulch noted at 15.53 chs., extends S.
 desc. SE. slope 125 ft. to
 50.23 Gulch, course SW. for 5 chs., and thence W.; asc. SW.
 slope 40 ft. to
 55.60 Desc. SE. slope 15 ft. to
 58.10 Wash, 20 lks. wide, course SW.; asc. W. slope 140 ft. to
 76.20 Thence desc. 30 ft. to
 79.74 The cor. of secs. 29, 30, 31 and 32.
 Land, mountainous.
 Soil, gravelly and stony; with exposed country rock,
 4th rate;
 No timber.
 Undergrowth, greasewood, juniper and catclaw.

N.0°03'W., bet. secs. 29 and 30.
 Asc. SW. slope over broken cliffs, through scattering
 undergrowth.

17.60 Cliff, 100 ft. high; bears N.75°W., and S.75°E.
 I offset west, 1.86 chs., to pass same

Chains	Thence N.0°03'W., on offset.
20.77	Offset back to true line, 1.86 chs. E. This station is 420 ft. above sec. cor.
36.22	Desc. NW. slope over broken cliffs, 300 ft. to Gulch, course NW. for 100 lks., and thence SW.; asc. 20 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 29 in E., and S 30 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.
49.80	Asc. SW. slope 120 ft. to Low ridge bears NE. and SW.; high peak bears W., about 10.00 chs. dist. Desc. NE. slope.
60.43	Gulch, course NW.; thence cross low spur to
70.10	Gulch, 200 ft. below ridge, course N.80°W.; asc. steep S. slope.
78.45	Foot of white rock ledge bears E. and W.
78.47	Top of same.; asc. SE. slope.
80.00	275 ft. above gulch, Set an iron post, 3 ft. long, 2 ins. diam., 24 ins. in the ground, for cor. of secs. 19, 20, 29 and 30, with brass cap, marked T 22 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, $1\frac{1}{2}$ ft. high, W. of cor. Land, mountainous. Soil almost entirely lacking; line for most part runs over bare country rock. No timber. Undergrowth, greasewood, juniper and catclaw. Apr. 13, 1915.

	Apr. 19, 1915.
	East, on a random line, bet. secs. 20 and 29.
40.00	Set temp. $\frac{1}{4}$ sec. cor.
79.56	Intersect N. and S. line 19 lks. N. of the cor. of secs. 20, 21, 28 and 29. Thence I run N.89°52'W., on a true line, bet. secs. 20 and 29, over mountainous land, through scattering undergrowth; along N. slope, descending.
3.00	Spur extends NW.; desc. on SW. slope.
13.68	Thence on W. slope.
22.70	Gulch, course NW. for 2 chs., and thence W.; thence along N. slope.
39.78	640 ft. below sec. cor., 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 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.
	Asc. 50 ft. to
41.95	Spur extends N.; desc. W. slope.
53.70	Gulch, course SW. for 2 chs., and thence NW.
59.10	Same gulch, 220 ft. below spur, course NW.; asc. NE. slope 100 ft. to
61.95	Top of spur slopes N.; desc.
70.65	Low ridge bears N.70°W., and S.70°E.

Chains

74.45 Ft. of descent, 230 ft. below spur.
 79.56 The cor. of secs. 19, 20, 29 and 30.
 Land, mountainous.
 Soil, rocky, 4th rate.
 No timber.
 Undergrowth, greasewood, juniper and yucca.
 Apr. 19, 1915.

Apr. 13, 1915.
 West, on a random line, bet. secs. 19 and 30.
 40.00 Set temp. $\frac{1}{4}$ sec. cor.
 79.76 Intersect W. bdy. of Tp. 4 lks. N. of the cor. of secs.
 19, 24, 25 and 30, which is an iron post,
 2 ins. diam., with brass cap, marked, set, and witnessed
 as described by the surveyor general.
 Thence I run
 N. $89^{\circ}58'E.$, on a true line, bet. secs. 19 and 30.
 Asc. along granite spur extending W., 80 ft. to
 6.90 Top of spur extends N.; desc. NE. slope 60 ft. to
 14.15 Wash, 10 lks. wide, course NW..
 20.40 Enter broad wash, course N. $65^{\circ}W.$
 25.40 Leave same and asc. SW. slope 35 ft. to
 28.65 Desc. 25 ft. to
 30.20 Bottom of narrow gorge, course S. $75^{\circ}W.$; asc. 150 ft. to
 37.30 Summit; desc. NE. slope over rocky spur, 25 ft. to
 39.76 Set an iron post, 3 ft. long, 1 in. diam., 20 ins. in the
 ground and 6 ins. 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. far-
 ther in the ground.
 Desc. 50 ft. to
 40.30 Ft. of ledge, 20 ft. high; brs. N. & S. Thence; along N. slope.
 52.50 Gulch, course N. for 3.00 chs., and thence W.
 52.90 Spring in gulch bears N., 3.50 chs dist.
 58.00 Descend to
 61.00 Gulch, course NW. for 3.00 chs., and thence W.; ascend to
 79.15 Summit of ascent, 460 ft. above station at 40.30 chs.;
 on spur extending S.; desc. SE. slope 10 ft. to
 79.76 The cor. of secs. 19, 20, 29 and 30.
 Land, mountainous.
 Soil, rocky and gravelly; 4th rate.
 No timber.
 Undergrowth, greasewood, catclaw and juniper.
 Apr. 13, 1915.

Apr. 19, 1915.
 N. $0^{\circ}03'W.$, bet. secs. 19 and 20.
 over mountainous land, through scattering undergrowth.
 .68 Ft. of rocky point, 40 ft. high. To pass same, I offset
 East, 50 lks.
 Thence N. $0^{\circ}03'W.$, on offset.
 2.25 Offset W., 50 lks. to true line.
 6.70 Gulch, 130 ft. below sec. cor., course S. $70^{\circ}W.$; asc. SW.
 slope 70 ft. to
 19.30 Top of ridge bears E. and W. (slopes W. to saddle); desc.
 NW. slope over bare rock.
 23.45 Desc. over perpendicular cliff; bears E. and W.
 28.53 Canyon, 290 ft. below ridge, course W.; asc. S. slope 100
 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

Chains

$\frac{1}{4}$ 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, $1\frac{1}{2}$ ft. high,
 W. of cor.
 41.85 Ft. of cliff, 80 ft. high, bears E. and W.; to pass same,
 I offset
 East, 100 lks.; thence N. $0^{\circ}03'W.$, on offset.
 44.30 Offset W., 100 lks., to true line.
 Station is 155 ft. above $\frac{1}{4}$ sec. cor.; desc. NW. slope
 200 ft. to
 53.88 Gulch, near head, course S. $65^{\circ}W.$; asc. SW. slope 25 ft.
 to
 54.90 Desc. NW. slope 25 ft. to
 61.30 Gulch, course S. $70^{\circ}W.$
 64.50 Low ridge bears E. and W.; desc. NW. slope 100 ft. to
 69.00 Gulch, course N. $75^{\circ}W.$; Asc. SW. slope 90 ft. to
 76.15 Top of spur slopes W.; desc. NW. slope over broken cliffs
 and bare rocks, 100 ft. to
 80.00 Set an iron post, 3 ft. long, 2 ins. diam., in a mound of
 stone, for cor. of secs. 17, 18, 19 and 20, with brass
 cap, marked
 T 22 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, $1\frac{1}{2}$ ft. high,
 W. of cor. Impracticable to dig pits or set cor. in the
 ground.
 From cor., face of cliff, which I mark X BO S 20, bears
 S. $88^{\circ}E.$, 27 lks. dist.
 Land, mountainous.
 Soil, rocky; 4th rate.
 No timber.
 Undergrowth, greasewood.

Apr. 19, 1915.

Apr. 24, 1915.
 East, on a random line, bet. secs. 17 and 20.
 40.00 Set temp. $\frac{1}{4}$ sec. cor.
 79.54 Intersect N. and S. line 14 lks. N. of true pt. for cor. of secs.
 16, 17, 20 and 21.
 Thence I run
 N. $89^{\circ}54'W.$, on a true line, bet. secs. 17 and 20.
 Asc. SE. slope over rough mountainous land, through
 scattering undergrowth, 80 ft. to
 6.15 Top of spur slopes SW.; desc. W. slope.
 10.70 Head of gulch, course SW.
 18.70 Rock reef bears N. and S.
 30.50 Head of gulch, 340 ft. below spur at 6.15 chs., course
 S. $15^{\circ}E.$; another gulch runs N. from this point.
 Asc. E. slope 65 ft. to
 33.35 Summit of ascent bears N. and S.; desc. W. slope.
 39.77 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 17 in N. half,
 S 20 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.
 49.17 Gulch, 350 ft. below station at 33.35 chs., course SW.;
 asc. SE. slope 50 ft. to
 54.10 Top of divide bears NE. and SW.; desc. NW. slope 70 ft. to
 60.00 Asc. NE. slope 115 ft. to
 66.15 Summit, on ridge bearing N. and S.; desc. W. slope, over
 exceedingly rough, broken cliffs, 340 ft. to

Partial Subdivision of Township 22 North, Range 20 West.

Chains. 79.54	The cor. of secs. 17, 18, 19 and 20. Land, mountainous. Soil, rocky 4th rate. No timber. Undergrowth, greasewood, catclaw and juniper. April 24, 1915.

40.00 79.60	April 27, 1915. West, on a random line, bet. secs. 18 and 19. Set temp. $\frac{1}{4}$ sec. cor. Intersect W. bdy. of Tp., 17 lks. S. of the cor. of secs. 13, 18, 19 and 24, which is an iron post, 3 ins. diam., with brass cap, set, marked and witnessed as described by the Surveyor General. Thence I run, S. $89^{\circ}53'E.$, on a true line, bet. secs. 18 and 19. Ascend 10 ft. on W. slope, over mountainous land, through scattering undergrowth to
1.00	Descend 35 ft. to
2.70	Gulch, course S. 6 chs. to main gulch, course W.; ascend W. slope, 40 ft. to
5.30	Spur slopes S.; descend SE. slope, 30 ft. to
7.55	Gulch, course SW.; ascend over heavily rolling spurs, 75 ft. to
14.75	Spur slopes S. $20^{\circ}W.$; descend SE. slope, 35 ft. to
19.75	Gulch, course SW.; ascend W. slope, 130 ft. to
27.40	Top of divide brs. NE. and S. $30^{\circ}W.$; descend SE. slope, 60 ft. to
34.40	Thence ascend 100 ft. to
39.60	Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in the ground, for $\frac{1}{4}$ sec. cor., with brass cap, marked $\frac{1}{4}$ S 18 in N., and S 19 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. Ascend W. slope, 35 ft. to
41.75	Spur slopes S. $20^{\circ}W.$; descend SE. slope, 65 ft. to
46.20	Foot of descent, on edge of rock ledge bearing N. and S. Ascend 25 ft. to
48.10	Top of rock ridge, brs. N. and S.; descend SE. slope, 115 ft. to
54.10	Small gulch, course S. $20^{\circ}E.$; ascend SW. slope, 50 ft. to
58.00	Descend 75 ft. to
73.60	Gulch, course SW.
79.60	The cor. of secs. 17, 18, 19 and 20. Land, mountainous. Soil, rocky, 4th rate. No timber. Undergrowth, greasewood, catclaw, juniper and cactus.

.80	N. $0^{\circ}03'W.$, bet. secs. 17 and 18. Descend 15 ft., over mountainous land, through scattering undergrowth, to
4.20	Gulch, course S. $80^{\circ}W.$; ascend broken cliffs, on SE. slope. Thence along W. slope.
17.95	Top of spur, 470 ft. above gulch, extends W.; descend NW. slope.
29.20	Gulch, 175 ft. below spur, course NW.; ascend S. slope.
34.60	Spur extends SW.; thence along W. slope.
40.00	Set an iron post, 3 ft. long, 1 in. 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 17 in E., and S 18 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. Ascend SW. slope.
47.20	Top of rock ridge, 240 ft. above gulch, brs. NW. and SE.; descend NE. slope.
71.23	Gulch, 400 ft. below ridge, course NW.; water in bottom about 20 lks. E. of line; ascend SW. slope, 90 ft. to

20. Partial Subdivision of Township 22 North, Range 20 West.

- Chains.
- 77.50 Summit of ascent; descend gradually to
80.00 Set an iron post, 3 ft. long, 2 ins. in diam., in a mound of stone, for cor. of secs. 7, 8, 17 and 18, with brass cap, marked
- T 22 N S 7 in NW.,
R 20 W S 8 in NE.,
S 17 in SE., and
S 18 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, yucca and cactus.
April 27, 1915.
-
- May 5, 1915.
- 25.53 East on a random line, bet. secs. 8 and 17.
At this point encounter high point of mountain, over which chaining is impracticable; therefore, avoid same by offset as follows:
- South 7.53 chs. Thence
East, 14.47 chs. Thence
North 7.53 chs. To point on random line at
- 40.00 Set temp. ¼ sec. cor. Impracticable to run random line east from this point; therefore offset as follows:
- South, 7.53 chs. Thence
East, 39.53 chs. to intersection with sec. line bet. secs. 16 & 17. Thence
N. 0° 15' W. 3.86 chs. on sec. line to stake set when surveying line bet. secs. 16 and 17, as hereinbefore described. This stake being set 3.95 chs. S. 0° 15' E. of cor. point, the random line bet. secs. 8 and 17 projected would fall 28 lks. S. of same cor. point, resulting in a true course and dist. for line bet. secs. 8 and 17, S. 89° 48' W., 79.50 chs.
- True point for cor. being inaccessible, I begin survey of true line by offset as follows:
- From temp. stake on line, bet. secs. 16 and 17, I run,
S. 0° 15' E. 3.86 chs. on sec. line Thence
S. 89° 48' W. 39.75 chs. on offset line parallel to, and 7.81 chs. S. of true line bet. secs. 8 and 17. On W. slope over rocks, thru. scattering undergrowth.
- Topography on offset line as follows:
- Descend 190 ft. to
6.65 chs. Gulch, course SW.; asc. E. slope, 80 ft. to
8.05 chs. Foot of cliff, brs. N. and S.; asc. 80 ft. to
9.10 chs. Top of same; thence desc. SW. slope, over broken cliffs, 35 ft. to
14.70 chs. Gulch, course S. 15° W.; asc. SE. slope.
26.30 chs. Spur, extends S.; descend.
39.75 chs. Offset point. Thence
N. 0° 15' W., 7.81 chs. to point on true line at
- 39.75 Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in the ground, for ¼ sec. cor., with brass cap, marked
- ¼ S 8 in N. half;
S 17 in S. half; and 1915 in S. rim; and raise a mound of stone 2 ft. base, 1½ ft. high, N. of cor. Thence S. 0° 15' E., 7.81 chs. to offset point. Thence N. 89° 48' W., 14.42 chs. on offset line parallel to true line.
- Topography given as continued measurement of E. & W. offset line, as follows:
- 44.83 Chs. Gulch, 270 ft. below spur, course SW.; asc. E. slope 50 ft. to

Partial Subdivision of Township 22 North, Range 20 West. 21.

Chains

47.34 chs. Summit of ascent, on ridge dividing drainage to NW. from drainage to SW., which brs. NE. and SW. Descend N. slope.

54.17 chs. Offset point. Thence N. $0^{\circ}15'W.$, 7.81 chs. Asc. S. slope 20 ft. to 1.10 Top of ridge brs. E. & W. Desc. 65 ft. to 6.80 Ravine, course NW.; asc. 15 ft. to 7.81 Offset pt. on true line at

54.17 Thence $S. 89^{\circ}48'W.$, on true sec. line, continuing E. & W. measurement. Descend SW. slope on line, continuing S. and W.

55.20 Ravine, course NW.; asc. NE. slope, over bare rocks, 80 ft. to

60.40 Spur slopes NW.; descend SW. slope to

67.20 Gorge, course $S. 40^{\circ}W.$ (same watercourse as ravine noted at 55.20 chs.) Ascend E. slope to

72.50 Spur slopes S.; descend.

79.50 The cor. of secs. 7, 8, 17 and 18, 270 ft. below spur. Land, mountainous. Soil, rocky, 4th rate. No timber. Undergrowth, greasewood, catclaw and cactus. May 5, 1915.

April 27, 1915.

West, on a random line, bet. secs. 7 and 18.

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

79.28 Intersect W. bdy. of Tp., 34 lks. S. of the cor. of secs. 7, 12, 13 and 18, which is an iron post, 3 ins. diam., with brass cap, set, marked and witnessed as described by the surveyor general.

Thence I run, $S. 89^{\circ}45'E.$, on a true line, bet. secs. 7 and 18. Ascend SW. slope, 35 ft. over mountainous land, through scattering undergrowth to

2.33 Spur, slopes S.; descend SE. slope, 130 ft. to

17.60 Ravine, course $S. 30^{\circ}W.$; small stream in bottom; ascend SW. slope, 150 ft. to

33.00 Low spur, slopes $S. 30^{\circ}W.$; descend 20 ft. to

34.28 Small gulch, course S.; spring bears S., about 15 chs.; ascend 90 ft. to

38.70 Spur slopes $S. 20^{\circ}W.$; thence on S. slope.

39.28 Set an iron post 3 ft. long, 1 in. in diam., 18 ins. in the ground, and 8 ins. in a mound of stone, for $\frac{1}{4}$ sec. cor., with brass cap, marked $\frac{1}{4}$ S 7 in N half; $\frac{1}{8}$ S 18 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.

41.10 Spur extends S.; descend SE. slope, 150 ft. to

49.80 Small gulch, course SE.; thence across S. slope.

59.53 N. side of bend of small gulch, course from $S. 65^{\circ}E.$ to $S. 65^{\circ}W.$; ascend S. slope, 170 ft. to

77.40 Gulch, course SW.

79.28 The cor. of secs. 7, 8, 17 and 18. Land, mountainous. Soil, rocky, 4th rate. No timber. Undergrowth, greasewood, catclaw, and cactus. April 27, 1915.

May 5, 1915.

N. $0^{\circ}03'W.$, bet. secs. 7 and 8. Ascend along W. slope, over mountainous land, through scattering undergrowth.

4.00 Ravine, course SW.; ascend on SE. slope.

11.15 Top of ridge, 100 ft. above sec. cor., brs. E. and W.; descend.

16.80 Gulch, 35 ft. below ridge, course from NE. to NW.; ascend SW. slope.

22. Partial Subdivision of Township 22 North, Range 20 W.

Chains.	
34.30	Top of ridge, 230 ft. above gulch, brs. NW. and SE.; descend N. slope.
40.00	Point for $\frac{1}{4}$ sec. cor. falls on steep face of rock, where it would be impracticable to set same; therefore at
40.10	Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in the ground, for witness cor. to $\frac{1}{4}$ sec. cor., with brass cap, marked $\frac{1}{4}$ in N., S 7 in W., S 8 in E., and W 0 in S half; and 1915 in S. rim; and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor.
42.57	Canyon, 280 ft. below ridge, course N. 20° W.
49.63	Gulch, course SW. Ascend.
59.70	Thence across W. slope.
62.70	180 ft. above canyon; descend NW. slope, 25 ft. to
65.65	Ravine, course N. 70° W.; ascend SW. slope, 45 ft. to
71.40	Top of spur, slopes NW.; descend N. slope, 170 ft. to
80.00	Near bottom of gulch, course N. 75° W. Set an iron post, 3 ft. long, 2 ins. in diam., 24 ins. in the ground, for cor. of secs. 5, 6, 7 and 8, with brass cap, marked T 22 N S 6 in NW., R 20 W S 5 in NE., S 8 in SE., and S 7 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 and cactus. May 5, 1915. E.O.L.

	T.O.J. May 5, 1915.
	East, on a random line, bet. secs. 5 and 8.
40.00	Set temp. $\frac{1}{4}$ sec. cor.
79.74	Intersect N. and S. line, 10 lks. S. of the cor. of secs. 4, 5, 8 and 9, which is an iron post, 2 ins. diam., with brass cap, set, marked and witnessed, as described by the surveyor general. Thence I run, S. 89° 56' W., on a true line, bet. secs. 5 and 8.
12.10	Descend W. slope, of rocky ridge.
22.50	Descend over cliff, 60 ft. high. Canyon, 680 ft. below sec. cor., course N. 67 $\frac{1}{2}$ ° W.; ascend along NE. slope, over slide rock, 250 ft. to
33.20	Top of cliff, 100 ft. high; thence along N. slope, over slide rock.
39.87	Descend 90 ft. to On N. slope. Set an iron post, 3 ft. long, 1 in. in diam., 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 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.
49.70	Descend along N. slope, 140 ft. to Thence ascend 25 ft. to
50.40	Top of rock reef; ascend 65 ft. to
55.00	Spur projects N.; cliff, 100 ft. high on E. side; descend NW. slope, over slide rock, 120 ft. to
59.20	Head of gulch, course N.; ascend E. slope, 35 ft. to

Chains

65.15 Spur extends N.; desc. along N. slope, over slide rock,
330 ft. to

79.74 The cor. of secs. 5, 6, 7 and 8.
Land, mountainous.
Soil, rocky; 4th rate.
No timber.

40.00 West, on a random line, bet. secs. 6 and 7.
Set temp. $\frac{1}{4}$ sec. cor.

78.86 Intersect W. bdy. of Tp. 29 lks. S. of the cor. of secs.
1, 6, 7 and 12, which is an iron post, 3 ins.
diam., with brass cap, set, marked and witnessed as des-
cribed by the surveyor general.
Thence I run
S. $89^{\circ}48'E.$, on a true line, bet. secs. 6 and 7.
Asc. over mountainous land, 75 ft. to
6.05 Top of cliff, 50 ft. high; desc. 70 ft. to
11.05 Canyon, course NW.; asc. 400 ft. to
28.10 Summit, on N. side of butte; desc. E., slope.
38.86 On N. slope
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 6 in N. half,
S 7 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.

44.60 Canyon, 300 ft. below station at 28.10 chs., course NW.;
asc. 350 ft. on W. slope to

59.20 Top of ridge bears NW. & SE.; descend. along N. slope,
over slide rock, 215 ft. to

77.85 Canyon, course N. $67\frac{1}{2}^{\circ}W.$

78.86 The cor. of secs. 5, 6, 7 and 8.
Land, mountainous.
Soil, rocky; 4th rate.
No timber.

T. O. J.

E., O. L.
N. $6^{\circ}03'W.$, on a random line, bet. secs. 5 and 6.

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

80.50 Intersect N. bdy. of Tp. 37 lks. E. of the cor. of secs.
5, 6, 31 and 32, which is an iron post, 3 ins. diam.,
with brass cap, set, marked and witnessed as described
by the surveyor general.
Thence I run
S. $0^{\circ}19'E.$, on a true line, bet. secs. 5 and 6,
across general W. slope, through scattering undergrowth.

19.80 Ravine, course NW.

23.30 Low spur extends NW.; desc. 70 ft. to

27.00 Enter broad wash, course NW.

31.85 Leave same and asc. abrupt NE. slope.

40.50 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 5 in E., and
S 6 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. far-
ther in the ground.

47.10 Top of rocky spur slopes NW.; (210 ft. above wash). Desc.
100 ft. to

Chains

58.50 Ravine, course W. for 3 chs., and thence NW.
 61.20 Low ridge bears E. and SW.
 65.40 Head of ravine, course SW.; asc. across W. slope 120 ft.
 to
 78.30 Top of low ridge bears E. and W.; desc. S. slope 40 ft. to
 80.50 The cor. of secs. 5, 6, 7 and 8.
 Land, mountainous.
 Soil, rocky; 4th rate.
 No timber.
 Undergrowth, greasewood, catclaw and cactus.
 May 5, 1915.
 E. O. L.

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

GENERAL DESCRIPTION.

The portion of this township surveyed by us consists of rough mountainous land, lying along the summit of the Black Mountains.

The soil is practically all rocks, and of no value.

Vegetation consists of juniper, sage, greasewood, catclaw, yucca, mesquite and cactus. There is some grass in secs. 10, 15, 22 and 27.

Water of excellent quality is located in springs in secs. 18, 19 and 33.

There are no settlers.

FOR CERTIFICATES OF UNITED STATES SURVEYOR.
AND UNITED STATES TRANSITMAN

See Book "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.

The foregoing field notes of the survey of the Completion of the

Subdivision Lines of

TOWNSHIP 22 NORTH, RANGE 20 WEST,

of the Gila and Salt River Base and Meridian, in the State of Arizona, executed by Theo. O. Johnston, U. S. Surveyor, and Edward O. Lyman, U. S. Transitman under ~~his~~ 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 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.~~