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Book "I"  
4-679

Book 3012

BOOK 3012

# FIELD NOTES

OF THE SURVEY OF THE

PART OF WEST AND PART OF NORTH BOUNDARIES  
and

COMPLETION OF SUBDIVISION LINES,

RESURVEY OF

EAST AND PART OF NORTH BOUNDARIES  
and

PART OF SUBDIVISION LINES

of

TOWNSHIP 12 SOUTH, RANGE 21 EAST,

Of the Gila and Salt River Base and Meridian,

In the State of Arizona.

EXECUTED BY

Quintin Campbell,

In the capacity of U. S. Transitman, under instructions dated October 7, 1915,  
issued by the United States Surveyor General to govern surveys included in  
Group No. 63, which were approved by the Commissioner of the General Land  
Office, October 28, 1915.

~~Survey~~ Commenced December 12, 1916

~~Survey~~ Completed February 3, 1917  
Executed under Assignment  
Instructions dated Feb. 1, 1916.

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Book "I"

Group 63 - - Arizona.

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## INDEX DIAGRAM.

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————— Surveyed under this group--notes in this book.(3012)

————— Resurveyed under this group--notes in this book.(3012)

————— Surveyed under this group--notes in Book "F".

————— Accepted surveys.

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T. 12 S., R. 21 E.  
Resurvey of E. and Part of N. Bdy.,  
Survey of Part of N. and Part of W. Bdy.,  
Retracement of Portion, Resurvey of Portion,  
and Completion of Survey of Subdivision.

BOOK 3012

16

Chains

Work executed by U. S. Transitman Quintin Campbell, on dates shown on diagram on page 39 of this book, using Young & Sons' light mountain transit No. 8499, with Smith Solar attachment. The horizontal limb is provided with two double verniers placed opposite to each other, reading to single minutes of arc; which is also the least count of the verniers of the lat. and decl. arcs. The instrument was approved by the Assistant Supervisor of Surveys of District No. 5, subject to satisfactory field tests, on Dec. 7, 1916.

Field test of instrument.

Dec. 18, 1916.

I set up transit at camp, in sec. 31, near the cor. of sets. 29, 30, 31 and 32, T. 12 S., R. 21 E., in lat. 32°21' N., long. 110°14' W., examine the level and collimation adjustments and correct errors.

At 4h 00m, p.m., l.m.t., I set off 32°21' on the lat. arc, 23°21' S. on the decl. arc, and determine a meridian with the solar; marking a point in the same by driving a tack in a wooden stake firmly set in the ground five chs. N. of my station.

Dec. 19, 1916

At 1h 38m, a.m., l.m.t., I observe Polaris at western elongation, in accordance with instructions in the Manual, and mark a point in the line thus determined by driving a tack in a stake firmly set in the ground W. of the one set by the solar.

At 7h 30m, a.m., I turn off the azimuth of Polaris 1°20' to the E., and mark the true meridian thus determined by driving a tack in the stake already set by the solar.

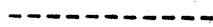
At 8h 00m, a.m., l.m.t., I set off 32°21' on the lat. arc, 23°22' S. on the decl. arc, and determine a meridian with the solar.

At apparent noon, I set off 23°24' S. on the decl. arc, and observe the sun on the meridian. The resulting lat. is 32°21', which agrees with the correct geographical lat.

The results of the a.m. and p.m. solars agree within less than one minute of arc with the true meridian established by the Polaris observation; from which I conclude that the adjustments of the solar apparatus are satisfactory.



The magnetic bearing of the true meridian, at 8h 10m, a.m., l.m.t., is N.13°45' W. The angle thus determined gives the magnetic declination 13°45' E.



At convenient times throughout the survey the adjustments of the solar apparatus were tested and maintained by comparison with the true meridian as determined by observations on Polaris.

Resurvey of E. Bdy. of T. 12 S., R. 21 E.

Retracement.

From the cor. of Ts. 12 and 13 S., Rs. 21 E., described in Book F,

NORTH, on a random line, on E. bdy. of sec. 36.

3.05  
39.59

The closing cor. of Ts. 12 and 13 S., Rs. 22 E., described in Bk. F. Intersect the old 1/4 sec. cor., which is a volcanic stone, 12x8x7 ins. above ground, firmly set, marked and witnessed as described by the Surveyor General.

Chains

(Retracement, continued.)

80.00 Intersect the cor. of secs. 25, 30, 31 and 36, which is a volcanic stone, 15x12x6 ins. above ground, firmly set, marked and witnessed as described by the Surveyor General.

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NORTH, on a random line, on E. bdy. of sec. 25. After diligent search at the 40, 80 and 120 ch. pts. and in their vicinity, fail to find either of the old cors.

159.52 Fall 20 lks. E. of the cor. of secs. 13, 18, 19 and 24, which is a volcanic stone, 15x10x6 ins. above ground, firmly set, marked and witnessed as described by the Surveyor General.

The true course and distance for the E. bdrs. of secs. 24 and 25 will therefore be N.0°04'W., 79.76 chs.

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38.98 NORTH, on a random line, on E. bdrs. of secs. 13, 12 and 1, setting temp. cors. at intervals of 40.00 chs. Fall 5 lks. E. of the original  $\frac{1}{4}$  sec. cor., which is a volcanic stone, 15x10x6 ins. above ground, firmly set, marked and witnessed as described by the Surveyor General.

78.90 Fall 47 lks. E. of the original cor. of secs. 7, 12, 13 and 18, which is a volcanic boulder, 3x2x2 ft., marked and witnessed as described by the Surveyor General.

118.82 Fall 30 lks. E. of the original  $\frac{1}{4}$  sec. cor. bet. secs. 7 and 12, which is a volcanic stone, 10x8x5 ins. above ground, firmly set, marked and witnessed as described by the Surveyor General.

158.66 Fall 5 lks. E. of the original cor. of secs. 1, 6, 7 and 12, which is a volcanic stone, 15x10x6 ins. above ground, firmly set, marked and witnessed as described by the Surveyor General.

198.79 Intersect the original  $\frac{1}{4}$  sec. cor. bet. secs. 1 and 6, which is a volcanic stone, 12x8x6 ins. above ground, firmly set, marked and witnessed as described by the Surveyor General.

241.37 Intersect the original closing cor. of Ts. 12 S., Rs. 21 and 22 E., which is a volcanic stone, 20x15x12 ins. above ground, firmly set, marked and witnessed as described by the Surveyor General.

241.39 Intersect S. bdy. of T. 11 S., R. 22 E., 3.10 chs. N.89°39'E. of cor. of Ts. 11 S., Rs. 21 & 22 E., hereinafter described.

### Resurvey.

Beginning at the cor. of Ts. 12 and 13 S., Rs. 21 E., described in Book F;

Thence NORTH, on true line, on E. bdy. of sec. 36, over level land, through scattering undergrowth, and timber.

13.05 The closing cor. of Ts. 12 and 13 S., Rs. 22 E., described in Book F.

16.50 Begin gradual descent, over rolling land.

29.50 Ravine, course W.

39.59 The  $\frac{1}{4}$  sec. cor., hereinbefore described; henceforth the  $\frac{1}{4}$  sec. cor. of sec. 36 only.

43.05 (40.00 chs. N. of the closing cor. of Ts. 12 and 13 S., Rs. 22 E.,)

Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the ground, for  $\frac{1}{4}$  sec. cor. of sec. 31, marked on brass cap

Resurvey of E. Bdy. of T. 12 S., R. 21 E.

Chains

1/4

S31

1917

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

- 44.70 Desc. 70 ft., from summit of flat ridge bearing E. and W.
- 56.26 Ravine, course W. Asc. 40 ft.
- 60.40 Summit of ridge, bears E. and W. Desc. 100 ft.
- 65.30 Bottom of rocky canyon, course W. Asc. 110 ft.
- 73.90 Summit of ridge, bears E. and W. Desc. 25 ft.
- 78.50 Ravine, course W. Asc. 20 ft.
- 80.00 The cor. of secs. 25, 30, 31 and 36, hereinbefore described, which I reestablish as cor. of secs. 25 and 36 only, as follows:

With original stone, set an iron post, 3 ft. long, 3 ins. diam., 24 ins. in the ground, marked on brass cap

T12S
S25
S36
R21E

1917

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

Land, level on S. 16 1/2 chs. and rolling and hilly on remainder of line.  
 Soil, rocky; 4th rate.  
 Timber, scattering ash and cedar.  
 Undergrowth, mescal and lechuguilla.

3.05

N.0°04'W., on E. Bdy. of sec. 25, over level top of ridge, Set an iron post, 3 ft. long, 3 ins. diam., 24 ins. in the ground, for reestablished cor. of secs. 30 and 31, marked on brass cap

T12S
S30
S31
R22E

1917

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

- 29.46 Desc. 160 ft. from ridge; edge of slope bears E. and W.
- 38.76 Bottom of Bear Canyon, 50 lks. wide, course W. Running water in this canyon during part of the year. Asc. abruptly from bottom.

39.88 (Proportionate distance,) Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in a mound of stone on bed rock, for reestablished 1/4 sec. cor. of secs. 25, marked on brass cap

1/4

S25

1917

from which An oak, 12 ins. diam., bears S.71°W., 170 lks. dist., marked 1/4 S25 BT.

43.05

No other bearing tree available. Raise a mound of stone, 2 ft. base, 1 1/2 ft. high, W. of cor. Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in a mound of stone on bed-rock, for reestablished 1/4 sec. cor. of sec. 30, marked on brass cap

Resurvey of E. Bdy. of T. 12 S., R. 21 E.

Chains

1/4  
S30

- and raise a mound of stone, 2 ft. base, 1 1/2 ft. high, E. of cor.
- 46.56 Summit of rocky ridge, bears E. and W., 150 ft. above bottom of canyon. Desc. 90 ft.
- 51.36 Bottom of ravine, 50 lks. wide on bottom, course W.
- 79.76 (Proportional distance,) Point for cor. of secs. 24 and 25, in bottom of ravine, 50 lks. wide on bottom, course SW., where it is impracticable to set cor. I establish witness cor. as follows:
- 80.51 Set an iron post, 3 ft. long, 3 ins. diam., 24 ins. in the ground, for witness cor. to reestablished cor. of secs. 24 and 25, marked on brass cap

T12S  
S24  
S25  
R21E | WC

1917  
and raise a mound of stone, 2 ft. base, 1 1/2 ft. high, W. of cor.

Land, hilly on N. 50 chs. and level on remainder of line. Soil, rocky; 4th rate. No timber. Undergrowth, none.

- From true pt. for cor. of secs. 24 and 25, NORTH, on E. bdy. of sec. 24, ascending over SW. slope, over mountainous land, through scattering undergrowth.
- .75 Witness cor. to reestablished cor. of secs. 24 and 25, hereinbefore described.
- 3.29 Set an iron post, 3 ft. long, 3 ins. diam., 24 ins. in the ground, for reestablished cor. of secs. 19 and 30, marked on brass cap

T12S  
S19  
S30  
R22E

- 12.75 and raise a mound of stone, 2 ft. base, 1 1/2 ft. high, E. of cor.
- Ravine, 50 lks. wide, on bottom, course SW., 130 ft. above sec. cor. Asc. 580 ft.
- 39.46 Summit of Bald Ridge, bears NW. and SE. Desc.
- 39.88 (Proportional distance,) Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the ground, for reestablished 1/4 sec. cor. of sec. 24, marked on brass cap

1/4  
S24

- 43.29 and raise a mound of stone, 2 ft. base, 1 1/2 ft. high, W. of cor.
- Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the ground, for reestablished 1/4 sec. cor. of sec. 19, marked on brass cap

1/4  
S19

1917

Chains

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

55.22 Ravine, 50 lks. wide, on bottom, course NW.; 270 ft. below Bald Ridge. Asc. 120 ft.

63.75 Summit of spur projecting NW. Desc. 60 ft.

66.16 Ravine, 25 lks. wide on bottom, course NW.; Asc. 225 ft.

79.76 The cor. of secs. 13, 18, 19 and 24, hereinbefore described; which I reestablish as cor. of secs. 13 and 24 only, by setting an iron post, 3 ft. long, 3 ins. diam., 24 ins. in the ground alongside old cor., marked on brass cap

T12S
S13
S24
R21E

1917

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

Land, mountainous.  
 Soil, rocky; 4th rate.  
 Timber, scattering cedar.  
 Undergrowth, lechuguilla and mesquite.

NOTE: A portion of the remaining three miles of this boundary being out of limits in alinement or measurement, and no subdivision lines being tied to it from either side, I destroy the old cors. and resurvey the line as follows:

3.53 NORTH, on E. bdy. of sec. 13, descending abruptly, over mountainous land, through scattering timber and undergrowth.  
 Set an iron post, 3 ft. long, 3 ins. diam., 24 ins. in the ground, for reestablished cor. of secs. 18 and 19, marked on brass cap

T12S
S18
S19
R22E

1917

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

Pine Canyon--erroniously called Bass Canyon in original field notes of this line--course NW., 430 ft. below cor. of secs. 13 and 24. Running water in this canyon during part of year. Asc. 230 ft. on abrupt SW. slope.

32.80 Ridge, bears NW. and SE. Begin descent.

40.00 Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the ground, for reestablished ¼ sec. cor. of sec. 13, marked on brass cap

¼
S13

1917

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

Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the ground, for reestablished ¼ sec. cor. of sec. 18, marked on brass cap

¼
S18

1917

Chains

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

68.50 Bottom of ravine, course NW., 400 ft. below ridge. Asc. 80 ft.

75.50 Summit of spur, projects NW. Desc. 120 ft. on steep slope.

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

T12S  
S12  
S13  
R21E

1917

from which

An oak, 20 ins. diam., bears S.87°W., 115 lks. dist., marked T12S R21E S13 BT.

An oak, 10 ins. diam., bears N.57°W., 120 lks. dist., marked T12S R21E S12 BT.

Land, mountainous.

Soil, rocky, 4th rate.

Timber, scattering scrub oak and cedar in ravines.

Undergrowth, lechuguilla.

NORTH, on E. bdy. of sec. 12,

over mountainous land, through scattering timber and undergrowth. Desc. 10 ft. to bottom of canyon.

1.50 Bottom of canyon, 100 lks. wide, course NW. Asc.

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

T12S  
S7  
S18  
R22E

1917

from which

an oak, 14 ins. diam., bears S.47½°E., 123 lks. dist., marked T12S R22E S18 BT.

No other tree within limits. Raise a mound of stone, 2 ft. base, 1½ ft. high, E. of cor.

16.30 Summit of spur, projects W., 175 ft. above canyon. Desc.

22.70 Edith Poore's house bears W., 23.25 chs. dist.

27.00 Bottom of canyon, 200 lks. wide, on bottom, 200 ft. below spur.; course W. Asc.

40.00 Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the ground, for reestablished ¼ sec. cor. of sec. 12, marked on brass cap

¼

S12

1917

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

43.53 Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the ground, for reestablished ¼ sec. cor. of sec. 7, marked on brass cap

¼

S7

1917

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



Resurvey of E. Bdy. of T. 12 S., R. 21 E.

Chains

- 59.50 Summit of spur, bears S.70°W., 300 ft. above bottom of canyon. Desc. 250 ft.
- 62.20 Ft. of slope.
- 70.70 Bottom of Rockhouse Canyon, 3 chs.wide on bottom, course S.70°W. Asc. 160 ft.
- 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, marked on brass cap

T12S
S1
S12
R21E

1916

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

Land, mountainous and hilly. Soil, rocky; 4th rate. Timber, scattering scrub oak and cedar in ravines.

NORTH, on E. bdy. of sec. 1, over hilly open land, ascending gradually.

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

T12S
S6
S7
R22E

1917

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

- 12.15 Road, bears NE. and SW.
- 21.40 Summit of flat ridge, bears E. and W., 100 ft. above cor. of secs. 1 and 12. Desc. 120 ft.
- 36.80 Ravine, 150 lks. wide on bottom, course NW. Asc.
- 40.00 Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the ground, for reestablished ¼ sec. cor. of sec. 1, marked on brass cap

¼
S1

1917

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

- 43.53 Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the ground, for reestablished ¼ sec. cor. of sec. 6, marked on brass cap

¼
S6

1917

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

- 45.00 Summit of flat spur, projects NW., 90 ft. above ravine. Road, bears NW. and SE. Desc. 140 ft.
- 55.50 Ravine, course NW. Asc. 130 ft.
- 68.20 Summit of small spur, projects W. Desc. 75 ft.
- 72.90 Ravine, course SW. Asc. 100 ft.
- 76.40 Saddle in ridge bearing NW. and SE. Heads of two gulches courses NE. and SW. respectively.
- 81.37 The closing cor. of Ts. 12 S., Rs. 21 and 22 E., hereinbefore described.

81.39 Intersect E. bdy. of T. 12 S., R. 22 E., 3.10 chs. N.89°39'E. of the cor. of Ts. 11 S., Rs. 21 and 22 E., hereinafter described.

Chains

Land, hilly and broken.  
Soil, rocky; 4th rate.  
No timber or underbrush.

Resurvey of Five Miles of N. Bdy. of T. 12 S., R. 21 E.

Retracement.

Beginning at the closing cor. of Ts. 12 S., Rs. 21 and 22 E., hereinbefore described; which is 2 lks. S. of the true cor. point.

3.10 Thence WEST, on a random line, on N. bdy. of sec. 1. Fall 2 lks. N. of cor. of Ts. 11 S., Rs. 21 and 22 E., which is a malpais stone, 15x12x8 ins. above ground, firmly set, marked and witnessed as described by the Surveyor General.

Continue WEST, on S. bdrs. of secs. 36 to 32 inclusive, to the cor. of secs. 31 and 32. I find all the cors. to be iron posts, firmly set, properly marked and witnessed, and the bearing of the line WEST, as described in the field notes of current Group 35. The distance from the cor. of secs. 32 and 33 to the  $\frac{1}{4}$  sec. cor. on S. bdy. of sec. 32 is 40.50 chs., instead of 40.00 chs. as given in said field notes. With this exception, the distances are as reported in said field notes.

I return to the closing cor. of Ts. 12 S., Rs. 21 and 22 E., and resurvey the line, setting cors. for the area S. of same, as follows:

Resurvey.

S 89° 39' W. on N. bdy. of sec. 1.  
3.10 Over rocky and hilly land; ascend 20 ft.  
3.10 Cor. of Ts. 11 S., Rs. 21 and 22 E. hereinbefore described, on ridge, bearing NW and SE. Descend 30 ft.  
30.51 Thence West, continuing measurement from closing cor. Ravine, 30 lks. wide, on bottom, course NW. Asc. over rolling land.  
40.00 Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the ground, for  $\frac{1}{4}$  sec. cor., of sec. 1, marked on brass cap;

$\frac{1}{4}$  S1

1917

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

43.10 The  $\frac{1}{4}$  sec. cor. of sec. 36, hereinbefore described.

48.10 Top of broad flat spur, slopes NW.

48.30 Road, bears NW. and SE.

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

S2 | S1  
T12S | R21E

1917

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

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

Resurvey of Part of N. Bdy. of T. 12 S., R. 21 E. 9

Chains

WEST, on N. bdy. of sec. 2,  
 over rocky, hilly land.  
 3.10 The cor. of secs. 35 and 36, hereinbefore described.  
 40.00 Set an iron post, 3 ft. long, 1 in. diam., 18 ins. in the  
 ground to bed-rock and 10 ins. in a mound of stone,  
 for  $\frac{1}{4}$  sec. cor. of sec. 2, marked on brass cap

$\frac{1}{4}$  S2

1917

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

41.98 Ravine, course NW.

43.10 The  $\frac{1}{4}$  sec. cor. on S. bdy. of sec. 35, hereinbefore des-  
 cribed.

Asc. 20 ft.

50.40 Summit of small spur, projects N. Desc. 30 ft.

63.00 Same ravine, at bend, course NW. Comes from NE.

66.30 Same ravine, course SW. Asc. 190 ft.

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

S3	S2
T12S	R21E

1917

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

Land, rolling and hilly.

Soil, rocky; 4th rate.

Timber, scattering hackberry in washes.

WEST, on N. bdy. of sec. 3,  
 over mountainous land.

3.10 The cor. of secs. 34 and 35, hereinbefore described.

Thence over gradual S. slope, ascending.

36.67 Head of ravine, course SE. Asc. on E. side of spur.

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

$\frac{1}{4}$  S3

1917

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

43.10 The  $\frac{1}{4}$  sec. cor. of sec. 34, hereinbefore described.

54.78 Top of spur, bears SE. Desc. 310 ft.

77.75 Ravine, course S. Asc. 60 ft.

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

S4	S3
T12S	R21E

1917

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

Land, mountainous.

Soil, rocky; 4th rate.

No timber.

Undergrowth, lechuguilla.

Chains

WEST, on N. bdy. of sec. 4,  
over rocky, mountainous land. Asc. over rocky E. slope.  
3.10 The cor. of secs. 33 and 34, hereinbefore described.  
8.06 Top of ridge, bears N. and S., 100 ft. above the cor. of  
secs. 3 and 4. Desc. 570 ft. on steep slope.  
39.56 Bottom of steep narrow canyon, course S.  
40.00 Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the  
ground, for  $\frac{1}{4}$  sec. cor. of sec. 4, marked on brass cap

 $\frac{1}{4}$  S4

1917

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

Asc. on steep W. side of canyon.

43.10 The  $\frac{1}{4}$  sec. cor. of sec. 33, hereinbefore described.  
53.16 Top of ridge, bears N. and S., 350 ft. above bottom of  
canyon.

61.40 Head of ravine, course S. Asc. 95 ft.

69.70 Top of ridge, bears NW. and SE. Desc. 150 ft. along top  
of spur projecting W.

80.00 Set an iron post, 3 ft. long, 3 ins. diam., 24 ins. in a  
mound of stone on solid rock, for cor. of secs. 4 and 5,  
marked on brass cap

S5	S4
T12S	R21E

1917

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

Land, mountainous.

Soil, rocky; 4th rate.

Timber, scattering cedar.

Undergrowth, lechuguilla.

WEST, on N. bdy. of sec. 5,  
over rocky, mountainous land. Desc. over steep slope,  
broken by cliffs, into Bass Canyon, --erroniously called  
Bassett Canyon in the field notes of Group 35.  
3.10 The cor. of secs. 32 and 33, hereinbefore described.  
11.40 East fork of Bass Canyon, course S. Asc. 250 ft.  
21.40 Top of rocky spur, projects S. Desc. 50 ft.  
23.81 Gulch, course SE. Asc. on E. side of spur.  
40.00 Set an iron post, 3 ft. long, 1 in. diam., 12 ins. in the  
ground to bed-rock and 14 ins. in a mound of stone,  
for  $\frac{1}{4}$  sec. cor. of sec. 5, marked on brass cap

 $\frac{1}{4}$  S5

1917

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

43.60 The  $\frac{1}{4}$  sec. cor. of sec. 32, hereinbefore described.

50.90 Top of spur, projects S. Desc. 100 ft. over W. slope.

74.00 Ravine, course S. Asc. 80 ft.

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

S6	S5
T12S	R21E

1917

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

Resurvey of Part of N. Bdy. of T. 12 S., R. 21 E. 11

Chains

Land, mountainous.  
Soil, rocky, 4th rate.  
Timber, scattering cedar.  
Undergrowth, scattering scrub oak on W. half mile.

Survey of Part of N. Bdy. of T. 12 S., R. 21 E.

From the cor. of secs. 5 and 6, hereinbefore described,  
WEST, on a true line, on N. bdy. of sec. 6,  
over mountainous land, ascending.

- 2.33 Top of spur, projecting S. Desc.
- 3.60 The cor. of secs. 31 and 32, hereinbefore described.
- 12.70 Rocky ravine, 80 ft. below spur, course SE. Asc. 350 ft.
- 36.00 Top of spur, projecting SE. Thence along rocky S. slope.
- 40.00 Set an iron post, 3 ft. long, 1 in. diam., 18 ins. in the ground to bed-rock and 8 ins. in a mound of stone, for  $\frac{1}{4}$  sec. cor. of sec. 6, marked on brass cap

$\frac{1}{4}$  S6

1917

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

- 42.90 Desc. 340 ft., over rocky W. slope.
- 54.55 Gulch, 75 lks. wide, course SE. Asc. over steep E. slope, 500 ft.
- 75.80 Top of rimrock ridge, bears NE. and SW. Desc. abruptly, 180 ft.
- 79.76 The cor. of Ts. 11 and 12 S., Rs. 20 and 21 E., established at the intersection of N. and W. bdrs., as hereinafter described.

Land, mountainous.  
Soil, rocky; 4th rate.  
Timber, scattering cedar and oak.  
Undergrowth, scrub oak and lechuguilla.

Survey of Part of W. Bdy. of T. 12 S., R. 21 E.

Beginning at the cor. of secs. 19, 24, 25 and 30, which is a volcanic stone, 15x10x6 ins. above ground, firmly set, marked and witnessed as described by the Surveyor General;

Thence NORTH, bet. secs. 19 and 24,  
over rocky; mountainous land, descending slightly.

- 5.00 Ravine, course W., 10 lks. wide on bottom. Asc. 100 ft.
- 20.00 Summit of spur, projecting NE. Desc. 120 ft.
- 34.12 Rocky ravine, 20 lks. wide on bottom, course E. Asc. 100 ft.
- 40.00 Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the ground, for  $\frac{1}{4}$  sec. cor., marked on brass cap

S24 | S19

1916

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

Chains

- 68.00 Cor. is on top of spur, projecting E. Desc. 195 ft. Double-R Spring bears E., 250 lks. dist. Small stream from this spring flows down bottom of canyon.
- 70.26 Bottom of Double-R Canyon, course SE. Thence along E. side of same.
- 74.00 Bottom of same canyon, course SW. Thence along same.
- 78.00 Leave bottom, and asc. along E. side of canyon.
- 80.00 Set an iron post, 3 ft. long, 3 ins. diam., 24 ins. in the ground, for cor. of secs. 13, 18, 19 and 24, marked on brass cap

T12S	
R20E	R21E
S13	S18
S24	S19

1916  
and raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor.

Land, mountainous.  
Soil, rocky and gravelly; 4th rate.  
Timber, scattering mesquite, cedar, ash and cottonwood along ravines.  
Undergrowth, yucca, manzanita and lechuguilla.

- NORTH, bet. secs. 13 and 18,  
over mountainous, rocky land. Asc. 75 ft.
- 13.33 Top of rocky hill, bears E. and W. Desc. 50 ft.
  - 21.40 Dry ravine, course SW. Asc. 40 ft.
  - 26.35 Top of spur, projecting E. Desc. 25 ft.
  - 28.40 Dry ravine, course SE.
  - 34.05 Same ravine, 15 lks. wide, course SW. Asc. 183 ft.
  - 40.00 Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the ground, for ¼ sec. cor., marked on brass cap

¼	
S13	S18

- 1916  
and raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor.
- 44.00 Summit of rocky sandstone ridge, bears NW. and SE. Thence along same. Desc. 65 ft.
  - 60.80 Dry ravine, 10 lks. wide on bottom, course SE. Asc. 150 ft.
  - 80.00 Set an iron post, 3 ft. long, 3 ins. diam., 24 ins. in the ground, for cor. of secs. 13, 18, 19 and 24, marked on brass cap

T12S	
R20E	R21E
S12	S 7
S13	S18

1916  
and raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor.

Land, mountainous.  
Soil, gravelly and rocky; 4th rate.  
Timber, scattering cedar and mesquite.  
Undergrowth, yucca.

- NORTH, bet. secs. 7 and 12,  
over rocky, mountainous land. Asc. 260 ft.
- 26.37 Summit of rocky spur, projects W. Desc. 50 ft.

Survey of Part of W. Bdy. of T. 12 S., R. 21 E.

Chains

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

$\frac{1}{4}$   
S12 | S 7

1916

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

Asc. 113 ft.

57.00 Summit of rocky ridge, bears NE. and SW. Desc. 30 ft.

67.50 Dry ravine, course SW. Asc. 175 ft.

80.00 Set an iron post, 3 ft. long, 3 ins. diam., 24 ins. in a mound of stone on bed rock, for cor. of secs. 1, 6, 7 and 12, marked on brass cap

T12S  
R20E | R21E  
S1 | S6  
-----  
S12 | S 7

1916

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

Land, mountainous.  
Soil, gravelly and rocky; 4th rate.  
Timber, scattering mesquite and cedar.  
Undergrowth, manzanita.

NORTH, bet. secs. 1 and 6,  
over rocky, mountainous land. Asc. 30 ft., on SW. slope.

5.17 Summit of spur, projects W. Desc. 90 ft.

25.00 Ft. of slope. Begin ascent of SW. slope of ridge.

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

$\frac{1}{4}$   
S1 | S6

1916

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

49.40 Vertical sandstone cliff 30 ft. high, bears NW. and SE.

54.75 Summit of rocky sandstone rim-rock, bears NW. and SE., 656 ft. above ft. of slope. Desc. 30 ft., over westerly slope.

60.45 Sharp sandstone pinnacle, 30 ft. high, on line. Asc. 80 ft.

72.14 Summit of main rim-rock ridge, bears NE. and SW. Desc. abruptly over steep N. slope, 185 ft.

80.00 Intersect N. bdy. of Tp., hereinbefore described, 79.76 chs. W. of the cor. of secs. 5 and 6.

At point of intersection set an iron post, 3 ft. long, 3 ins. diam., 24 ins. in the ground, for cor. of Ts. 11 and 12 S., Rs. 20 and 21 E., marked on brass cap

T11S  
R20E | R21E  
S36 | S31  
-----  
S1 | S6

T12S

1917

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

Chains

Land, mountainous, with steep slopes.  
Soil, gravel and rock; 4th rate.  
Timber, scattering cedar.

Resurvey of Portion of Subdivision Lines of  
T. 12 S., R. 21 E.

From the original  $\frac{1}{4}$  sec. cor. bet. secs. 25 and 26, which is a volcanic stone, 12x8x6 ins. above ground, firmly set, marked and witnessed as described by the Surveyor General;

12.00 N.0°04'W., on a true line, bet. secs. 25 and 26,  
over rocky, hilly land. Desc. 220 ft.  
28.50 Ravine, 25 lks. wide on bottom, course W. Asc. 150 ft.  
32.20 Summit of ridge, bears E. and W. Desc. 60 ft.  
40.00 Ravine, course W. Asc. 50 ft., over gently sloping land.  
Set an iron post, 3 ft. long, 2 ins. diam., 24 ins. in the ground, for reestablished cor. of secs. 23, 24, 25 and 26, marked on brass cap

T12S	R21E
S23	S24
S26	S25

1917

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

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

From the point for reestablished cor. of secs. 24 and 25, on E. bdy. of Tp., 75 lks. S.0°04'E. of the witness cor., hereinbefore described;

40.09 N.89°54'W., on a true line, bet. secs. 24 and 25, over rocky, rolling, open land, sloping W., along barbed wire fence.  
(Proportional distance), Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the ground, for reestablished  $\frac{1}{4}$  sec. cor., marked on brass cap

$\frac{1}{4}$	S24
S25	

1917

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

58.00 Ravine, 20 lks. wide, course S.60°W.  
80.18 (Proportional distance,) The cor. of secs. 23, 24, 25 and 26, reestablished as hereinbefore described.

Land, rolling.  
Soil, rocky; 4th rate.  
No timber.  
Undergrowth, mescal.

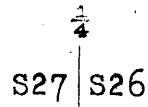
From the original cor. of secs. 26, 27, 34 and 35, which is a volcanic stone, 12x10x5 ins. above ground, firmly set, marked and witnessed as described by the Surveyor General;



Resurvey of Portion of Subdivision Lines of  
T. 12 S., R. 21 E.

Chains

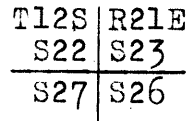
- N.0°04'E., on a true line, bet. secs. 26 and 27, over rocky, mountainous land. Desc. 60 ft.
- 4.00 Ravine, 50 lks. wide, course W. Asc. 60 ft.
- 8.60 Summit of ridge, bears E. and W. Desc. 100 ft.
- 12.30 Ravine, 30 lks. wide, course W. Asc. 60 ft.
- 17.70 Summit of ridge, bears E. and W. Desc. 115 ft.
- 22.50 Ravine, 100 lks. wide on bottom, course W. Asc. slope of ridge.
- 40.00 Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the ground, for reestablished  $\frac{1}{4}$  sec. cor., marked on brass cap



1917

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

- 49.00 Summit of ridge, bears NE. and SW. Desc. 80 ft.
- 55.30 Ravine, 30 lks. wide, course S.75°W. Asc. 90 ft.
- 68.00 Summit of flat ridge, bears NE. and SW. Desc. 120 ft.
- 75.50 Ravine, 100 lks. wide, course W. Asc. 40 ft.
- 77.50 Summit of sharp spur, projecting W. Desc. 30 ft.
- 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, marked on brass cap

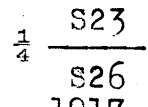


1917

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 cedar.  
Undergrowth, mesquite and lechuguilla.

- From the reestablished cor. of secs. 23, 24, 25 and 26, hereinbefore described,  
N.89°53'W., on a true line, bet. secs. 23 and 26, over rolling land, along top of flat ridge, by barbed wire fence.
- 40.17 (Proportional distance,) set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the ground, for reestablished  $\frac{1}{4}$  sec. cor., marked on brass cap



1917

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

- 56.00 Desc. 65 ft.
- 61.00 Ravine, 50 lks. wide, course SW. Thence over rolling land.
- 80.34 (Proportional distance,) The reestablished cor. of secs. 22, 23, 26 and 27.

Land, rolling and broken.  
Soil, rocky; 4th rate.  
No timber.  
Undergrowth, mesquite.

From the original  $\frac{1}{4}$  sec. cor. bet. secs. 27 and 28, which is a volcanic stone, 12x8x6 ins. above ground, firmly set, marked and witnessed as described by the Surveyor

Resurvey of Portion of Subdivision Lines of  
T. 12 S., R. 21 E.

16

Chains

General;

- N.0°01'W., on a true line, bet. secs. 27 and 28,  
over rocky, hilly land, along barbed wire fence.  
Desc. 140 ft.
- 7.10 Ravine, 20 lks. wide, course SE. Asc. 100 ft.
- 11.50 Summit of ascent, bears NW. and SE. Thence over rocky  
level land.
- 25.00 Edge of level land, bears NW. and SE. Desc. abruptly,  
155 ft., over rocky NE. slope.
- 35.00 Ravine, 100 lks. wide, course SE.
- 39.40 Cor. of fences running E. W., and S.
- 40.00 Set an iron post, 3 ft. long, 2 ins. diam., 24 ins. in the  
ground, for reestablished cor. of secs. 21, 22, 27 and  
28, marked on brass cap

T12S	R21E
S21	S22
S28	S27

1917

and raise a mound of stone, 2 ft. base, 1½ ft. high,  
W. of cor.  
An ash, 18 ins. diam., bears S.65°W., 167 lks. dist.,  
marked T12S R21E S28 BT.  
No other bearing tree within limits.

Land, hilly, and level.  
Soil, rocky; 4th rate.  
No timber.  
Undergrowth, mesquite and lechuguilla.

From the reestablished cor. of secs. 22, 23, 26 and 27,  
hereinbefore described;

- N.89°42'W., on a true line, bet. secs. 22 and 27,  
over rocky, hilly land, by barbed wire fence.
- 1.00 Enter ravine, course SW.
- 5.00 Asc. 75 ft. on W. side of ravine.
- 13.80 Top of spur, projecting SW. Desc. 110 ft.
- 16.00 Ravine, 30 lks. wide on bottom, course S. Asc. 125 ft.
- 27.50 Summit of ridge, bears NE. and SW. Desc. 110 ft.
- 35.60 Ravine, 100 lks. wide, course S. Asc. on E. slope of ridge.
- 40.23 (Proportional distance,) set an iron post, 3 ft. long,  
1 in. diam., 26 ins. in the ground, for reestablished  
¼ sec. cor., marked on brass cap

S22
¼
S27
1917

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

- 48.60 Summit of flat ridge, bears N. and S. Desc. gradually.
- 55.50 Ravine, 50 lks. wide on bottom, course S. Asc. 80 ft.
- 65.10 Summit of spur, bears S. Desc. 100 ft.
- 75.80 Ravine, 30 lks. wide on bottom, course SW. Asc. 40 ft.
- 80.00 Top of short spur, projecting S.
- 80.46 The reestablished cor. of secs. 21, 22, 27 and 28.

Land, hilly.  
Soil, rocky; 4th rate.  
No timber.  
Undergrowth, lechuguilla, and mescal.

From the reestablished cor. of secs. 21, 22, 27 and 28,  
S.89°59'W., on a true line, bet. secs. 21 and 28,  
over rocky, hilly land, along barbed wire fence. Desc.  
30 ft.

Resurvey of Portion of Subdivision Lines of  
T. 12 S., R. 21 E.

Chains

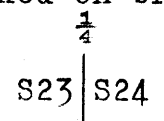
- 1.70 Ravine, 100 lks. wide on bottom, course SE. Asc. abruptly, 175 ft., over rocky E. slope.
- 9.70 Summit of steep ascent. Thence ascend gradually.
- 28.40 Top of ridge, bears N. and S. Desc. 165 ft., over rocky W. slope.
- 40.12 The original  $\frac{1}{4}$  sec. cor. bet. secs. 21 and 2<sup>a</sup>, which is a granite stone, 12x8x6 ins. above ground, firmly set, marked and witnessed as described by the Surveyor General.

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

Completion of  
Subdivision of T. 12 S., R. 21 E.

From the reestablished cor. of secs. 23, 24, 25 and 26, hereinbefore described;

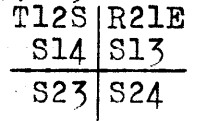
- N.0°01'W., bet. secs. 23 and 24, over hilly land. Desc. 40 ft.
- 5.20 Ravine, 50 lks. wide, on bottom, course W.
- 10.00 Ravine, 75 lks. wide on bottom, course NW.
- 35.84 Ravine, 50 lks. wide on bottom, course W.
- 40.00 Set an iron post, 3 ft. long, 1 in. diam., 14 ins. in the ground to bedrock and 12 ins. in a mound of stone, for  $\frac{1}{4}$  sec. cor., marked on brass cap



1917

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

- 49.00 Ravine, 25 lks. wide on bottom, course SW. Asc. over rocky SW. slope.
- 75.00 Head of ravine, 30 lks. wide, course SW.
- 80.00 (460 ft. above bottom of ravine at 49.00 ch. pt.,)  
Set an iron post, 3 ft. long, 2 ins. diam., 12 ins. in the ground, to bed rock, and 12 ins. in a mound of stone, for cor. of secs. 13, 14, 23 and 24, marked on brass cap



1917

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

Land, hilly and mountainous.  
Soil, rocky; 4th rate.  
No timber.  
Undergrowth, mescal and lechuguilla.

- 40.00 S.89°54'E., on a random line, bet. secs. 13 and 24. Set temp.  $\frac{1}{4}$  sec. cor.
- 80.20 Intersect E. bdy. of Tp. 19 lks. N. of the cor. of secs. 13 and 24; hereinbefore described.

Thence N.89°46'W., on a true line, bet. secs. 13 and 24,

OK  
2  
2

chains

- over rocky, mountainous land. Desc. 80 ft., over SW. slope.
- 9.60 Gulch, 30 lks. wide on bottom, course NW. Asc. 200 ft.
- 23.80 Top of spur, projects N. Desc. 80 ft.
- 33.20 Gulch, 25 lks. wide, course N. Asc. on E. slope of spur.
- 40.10 Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the ground, for  $\frac{1}{4}$  sec. cor., marked on brass cap
- S13  
 $\frac{1}{4}$  —————  
S24  
1917
- and raise a mound of stone, 2 ft. base,  $1\frac{1}{2}$  ft. high, N. of cor.
- 44.50 Summit of spur, projects N.  $10^{\circ}$ W. Desc. 120 ft.
- 55.35 Head of ravine, 20 lks. wide, course N. Asc. 75 ft.
- 63.50 Top of Bald Ridge, bears N.  $60^{\circ}$ W. and S.  $60^{\circ}$ E. Desc. over rocky SW. slope, 250 ft.
- 80.20 The cor. of secs. 13, 14, 23 and 24.

Land, mountainous.  
Soil, rocky; 4th rate.  
Timber, scattering cedar.  
Undergrowth, lechuguilla.

- N.  $0^{\circ}01'$ W., bet. secs. 13 and 14,  
over rocky, mountainous land. Asc. 400 ft.
- 15.60 Top of Bald Ridge, bears NW. and SE. Desc. 320 ft., along rocky NE. slope.
- 27.50 Head of ravine, 20 lks. wide on bottom, course E. Asc. 40 ft.
- 40.00 Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the ground, for  $\frac{1}{4}$  sec. cor., marked on brass cap
- $\frac{1}{4}$   
S14 | S13  
1917
- and raise a mound of stone, 2 ft. base,  $1\frac{1}{2}$  ft. high, W. of cor.
- 40.50 Top of spur projecting E. from ridge. Desc. 450 ft., over rocky N. slope.
- 64.30 Pine Canyon, 100 lks. wide on bottom, course NW. Asc. 250 ft.
- 80.00 Set an iron post, 3 ft. long, 3 ins. diam., 24 ins. in the ground, for cor. of secs. 11, 12, 13 and 14, marked on brass cap

T12S | R21E  
S11 | S12  
S14 | S13

1917

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 cedar.  
Undergrowth, lechuguilla.

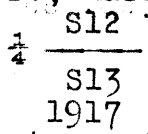
- 40.00 S.  $89^{\circ}46'$ E., on a random line, bet. secs. 12 and 13.  
Set temp.  $\frac{1}{4}$  sec. cor.
- 80.18 Intersect E. bdy. of Tp. 19 lks. S. of the cor. of secs. 12 and 13, hereinbefore described.

Thence N.  $89^{\circ}54'$ W., on a true line, bet. secs. 12 and 13, over mountainous land. Asc. 80 ft.

Completion of Subdivision of T. 12 S., R. 21 E.

Chains

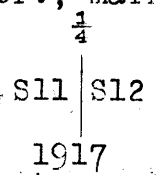
- 5.65 Top of spur, projects NW. Desc. 40 ft.
- 9.55 Ravine, 20 lks. wide, course N.10°W. Asc. 240 ft.
- 22.70 Top of spur, projects NW. Desc. 150 ft.
- 29.97 Ravine, 30 lks. wide, course NW. Asc. 125 ft.
- 40.09 Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the ground, for  $\frac{1}{4}$  sec. cor., marked on brass cap



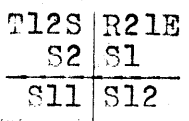
- and raise a mound of stone, 2 ft. base,  $1\frac{1}{2}$  ft. high, N. of cor.
- 40.60 Top of flat ridge, bears NW. and SE. Desc. 220 ft., over SW. slope.
- 58.30 Rocky gulch, 50 lks. wide on bottom, course NW. Asc. 140 ft.
- 77.00 Top of ridge, bears NW. and SE. Desc. slightly.
- 80.18 The cor. of secs. 11, 12, 13 and 14.

Land, mountainous.  
Soil, rocky; 4th rate.  
Timber, scattering cedar.  
Undergrowth, scrub oak.

- N.0°01'W., bet. secs. 11 and 12, over rocky, mountainous land. Asc. 20 ft.
- 1.00 Top of ridge, course NW. and SE. Desc. 260 ft., over rocky NE. slope.
- 13.70 Ravine, 50 lks. wide on bottom, course NW. Asc. 300 ft.
- 34.40 Top of rocky ridge, bears NW. and SE. Desc. into Rockhouse Canyon.
- 40.00 Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the ground, for  $\frac{1}{4}$  sec. cor., marked on brass cap



- and raise a mound of stone, 2 ft. base,  $1\frac{1}{2}$  ft. high, W. of cor.
- 52.10 Rockhouse Canyon, 100 lks. wide, course N.60°W. Asc. 230 ft.
- 64.10 Top of rim-rock, bears E. and W. Thence over level land.
- 67.00 Road, bears E. and W.
- 77.70 Desc. 50 ft.
- 80.00 Set an iron post, 3 ft. long, 2 ins. diam., 24 ins. in the ground, for cor. of secs. 1, 2, 11 and 12, marked on brass cap



- 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 scrub oak and cedar on N. slopes.  
Undergrowth, scrub oak.

- 40.00 S.89°54'E., on a random line, bet. secs. 1 and 12. Set temp.  $\frac{1}{4}$  sec. cor.
- 80.32 Intersect E. bdy. of Tp. 26 lks. N. of the cor. of secs. 1 and 12, hereinbefore described.

Chains

Thence N.89°43'W., on a true line, bet. secs. 1 and 12,  
 over rocky, rolling and hilly land, ascending slightly.  
 5.00 Summit of ascent, bears NE. and SW. Thence over level land.  
 29.82 Road, bears N.80°E. and S.80°W.  
 33.00 Begin descent, along N. slope.  
 40.16 Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the  
 ground, for  $\frac{1}{4}$  sec. cor., marked on brass cap

S 1  
 $\frac{1}{4}$  ———  
 S12  
 1917

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

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

Land, rolling.  
 Soil, rocky; 4th rate.  
 No timber or underbrush.

N.0°01'W., on a random line, bet. secs. 1 and 2.  
 40.00 Set temp.  $\frac{1}{4}$  sec. cor.  
 80.89 Intersect N. bdy. of Tp., 42 lks. W. of the cor. of secs.  
 1 and 2, hereinbefore described.

Thence S.0°17'W., on a true line, bet. secs. 1 and 2,  
 over rocky, hilly land. Desc. 60 ft.  
 7.70 Ravine, 20 lks. wide, course W. Asc. 50 ft.  
 19.00 Top of flat ridge, bears E. and W. Desc. 140 ft.  
 36.34 Ravine, 50 lks. wide, course W. Asc. 115 ft.  
 40.89 Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the  
 ground, for  $\frac{1}{4}$  sec. cor., marked on brass cap

$\frac{1}{4}$   
 S2 | S1  
 1917

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

43.70 Top of ridge, bears E. and W. Desc. 150 ft.  
 55.00 Ravine, 60 lks. wide, course SW. Asc. 100 ft.  
 60.30 Top of spur, projects W. Desc. 100 ft.  
 65.40 Ravine, 30 lks. wide, course W. Asc. 100 ft.  
 69.35 Top of spur, projects W. Desc. 100 ft.  
 77.30 Ravine, 30 lks. wide, course N.75°W. Asc. 130 ft.  
 80.89 The cor. of secs. 1, 2, 11 and 12.

Land, hilly.  
 Soil, rocky; 4th rate.  
 Timber, scattering scrub oak and cedar on N. slope.  
 Undergrowth, scrub oak.

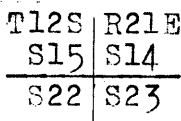
From the reestablished cor. of secs. 22, 23, 26 and 27,  
 hereinbefore described;

N.0°01'W., bet. secs. 22 and 23,  
 over rocky, hilly land.  
 .28 Barbed wire fence, bears E. and W.  
 2.50 Enter ravine, course SW.  
 7.00 Leave same, course SW.  
 10.00 Asc. 150 ft., along side of ridge, bears N. and S.  
 40.00 On top of ridge, bearing N.20°W., and S.,  
 Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the  
 ground, for  $\frac{1}{4}$  sec. cor., marked on brass cap

$\frac{1}{4}$   
 S22 | S23  
 1917

Chains

and raise a mound of stone, 2 ft. base, 1½ ft. high,  
W. of cor.  
Thence along E. slope of ridge;  
71.00 Ravine, 75 lks. wide, course SE. Asc. 30 ft.  
77.00 Top of small spur, projects SE.  
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, marked on  
brass cap



1917

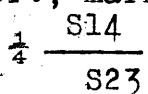
and raise a mound of stone, 2 ft. base, 1½ ft. high,  
W. of cor.

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

40.00 S.89°53'E., on a random line, bet. secs. 14 and 23.  
Set temp. ¼ sec. cor.  
80.30 Intersect N. and S. line 9 lks. S. of the cor. of secs.  
13, 14, 23 and 24.

Thence N.89°57'W., on a true line, bet. secs. 14 and 23,  
over mountainous land. Desc. 440 ft., over SW. slope  
of Bald Ridge.

33.80 Ravine, 40 lks. wide, course S. Asc. 50 ft.  
40.15 Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the  
ground, for ¼ sec. cor., marked on brass cap



1917

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

43.00 Top of flat ridge, bears N. and S. Desc. 110 ft.  
60.50 Ravine, 25 lks. wide on bottom, course SW. Asc. 30 ft.  
68.60 Top of spur, projects SW. Desc. 65 ft.  
77.60 Ravine, 75 lks. wide on bottom, course S.10°E. Asc. 75 ft.  
80.30 The cor. of secs. 14, 15, 22 and 23.

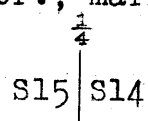
Land, hilly and mountainous.  
Soil, rocky; 4th rate.  
Timber, scattering mesquite.  
Undergrowth, lechuguilla, mescal and mesquite.

6.50 N.0°01'W., bet. secs. 14 and 15,  
over rocky, mountainous land. Desc. 40 ft., over NE.  
slope.

Ravine, 100 lks. wide on bottom, course S.10°E. Thence  
along rocky SW. slope of Bald Ridge.

14.24 Ravine, 35 lks. wide, course SW.  
24.40 Ravine, 50 lks. wide, course SW. Asc.

40.00 Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the  
ground, for ¼ sec. cor., marked on brass cap

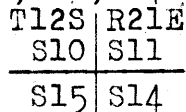


1917

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

Chains

- 40.10 Rocky ravine, 15 lks. wide on bottom, course SW.
- 51.70 Ravine, 25 lks. wide at bottom, course SW. Asc. abruptly, 450 ft., over rocky SW. slope of bald Ridge.
- 80.00 Set an iron post, 3 ft. long, 2 ins. diam., 14 ins. in the ground, to solid rock and 10 ins. in a mound of stone, for cor. of secs, 10, 11, 14 and 15, marked on brass cap



1917

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

Land, mountainous.  
Soil, rocky; 4th rate.  
No timber.  
Undergrowth, lechuguilla, soap-weed and mescal.

- 40.00 S. 89°57'E., on a random line, bet. secs. 11 and 14. Set temp. ¼ sec. cor.
- 80.18 Intersect N. and S. line 21 lks. N. of the cor. of secs. 11, 12, 13 and 14.

Thence N. 89°48'W., on a true line, bet. secs. 11 and 14, over mountainous, rocky land. Desc. 375 ft., over steep SW. slope.

- 20.50 Pine Canyon, 100 lks. wide, at bottom, course NW. Water in this canyon during part of the year. Asc. 130 ft.
- 26.30 Top of spur, projects N. Desc. 80 ft.
- 31.15 Rocky ravine, 50 lks. wide at bottom, course N. Asc. 165 ft.
- 37.30 Summit of rocky spur, projects N. Desc.
- 40.09 Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the ground, for ¼ sec. cor., marked on brass cap

S11

¼

S14

1917

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

- 41.50 Ravine, 10 lks. wide at bottom, course N., 75 ft. below spur. Asc. 195 ft.
- 52.63 Top of spur, projects NW. Desc. 240 ft.
- 62.30 Ravine, 20 lks. wide at bottom, course NW. Ravine heads 3 chs. SE. of line. Asc. 230 ft.
- 78.70 Top of Bald Ridge, bears NW. and SE. Desc. slightly.
- 80.18 The cor. of secs. 10, 11, 14 and 15.

Land, mountainous.  
Soil, rocky; 4th rate.  
Timber, scattering oak and cedar in Pine Canyon.  
Undergrowth, lechuguilla.

- 1.82 N. 0°01'W., bet. secs. 10 and 11, over rocky, mountainous land. Asc. 10 ft. Top of Bald Ridge, bears NW. and SE. To determine the distance across Pine Canyon, which is so steep and rocky that accurate chaining is impracticable, I leave a flag at this point and set a station on line on N. side of canyon; from which I measure a base E., 20 chs., to a point whence the flag bears S. 29°52'W. The distance across is therefore

$$\frac{20.00 \times \sin 60^{\circ}08'}{\sin 29^{\circ}53'} = \frac{20.00 \times .86719}{.49824} = 34.81 \text{ chs.}$$

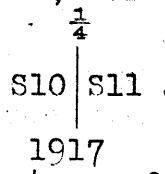


Completion of Subdivision of T. 12 S. R. 21 E. 23

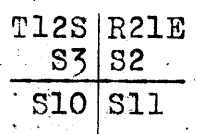
Chains

The total distance from sec. cor. is therefore  
 1.82 + 34.81, or 36.63 chs.  
 (Topography on line as follows):  
 From flag at 1.82 ch. pt, on Bald Ridge, descend 520 ft.  
 ft. into Pine Canyon.

- 21.80 Bottom of Pine Canyon, 100 lks. wide, at bottom, course NW. Asc. 400 ft.
- 36.63 Triangulation point, on ridge bearing E. and W. Desc. into ravine.
- 40.00 Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the ground, for  $\frac{1}{4}$  sec. cor., marked on brass cap



- 46.30 and raise a mound of stone, 2 ft. base,  $1\frac{1}{2}$  ft. high, W. of cor.
- 46.30 Ravine, 30 lks. wide on bottom, course N.75°W. Asc. 330 ft., over rocky SW. slope.
- 63.65 Top of spur, projecting W. Desc. 160 ft., along W. slope of mountain.
- 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, marked on brass cap



1917

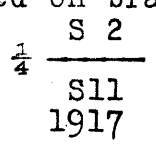
and raise a mound of stone, 2 ft. base,  $1\frac{1}{2}$  ft. high, W. of cor.

Land, mountainous.  
 Soil, rocky; 4th rate.  
 Timber, scattering cedar and oak in Pine Canyon.  
 Undergrowth, lechuguilla and mescal.

- 40.00 S.89°48'E., on a random line, bet. secs. 2 and 11.
- 40.00 Set temp.  $\frac{1}{4}$  sec. cor.
- 80.24 Intersect N. and S. line at the cor. of secs. 1, 2, 11 and 12.

*Not Printed Plain*

- 10.00 Thence N.89°48'W., on a true line, bet. secs. 2 and 11, over rocky, mountainous land. Asc. 25 ft.
- 30.00 Top of spur, projecting W. Thence along top of spur.
- 30.00 Desc. into Rockhouse Canyon.
- 35.70 Angle's house bears S., 14.40 chs. dist.
- 40.12 Set an iron post, 3 ft. long, 1 in. diam., 20 ins. in the ground to solid rock and 6 ins. in a mound of stone, for  $\frac{1}{4}$  sec. cor., marked on brass cap

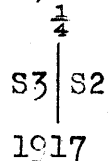


- 57.36 from which
- 57.36 An oak, 10 ins. diam., bears N.48°E., 49 lks. dist., marked  $\frac{1}{4}$  S2 BT.
- 60.56 An oak, 6 ins. diam., bears S.3°E., 7 lks. dist., marked  $\frac{1}{4}$  S11 BT.
- 57.36 Enter Rockhouse Canyon, course NW. Thence across bottom.
- 60.56 Leave bottom of canyon, and asc. abruptly, 310 ft., over rocky NE. slope.
- 76.10 Top of spur, projecting N. Thence along N. slope of mountain.
- 80.24 The cor. of secs. 2, 3, 10 and 11.

Land, mountainous.  
 Soil, rocky; 4th rate.  
 Timber, scattering cedar and oak.  
 Undergrowth, scrub oak and lechuguilla.

Chains

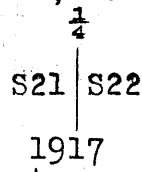
- N.0°01'W., on a random line, bet. secs. 2 and 3.
- 40.00 Set temp.  $\frac{1}{4}$  sec. cor.
- 80.91 Intersect N. bdy. of Tp. 39 lks. W. of the cor. of secs. 2 and 3, hereinbefore described.
  
- Thence S.0°16'W., on a true line, bet. secs. 2 and 3, over mountainous land, Desc. 180 ft., over S. slope.
- 24.26 Ravine, 25 lks. wide at bottom, course SW. Asc. 35 ft.
- 26.19 Top of rocky spur, projecting W. Desc. 50 ft., along W. slope.
- 32.80 Rocky canyon, 100 lks. wide at bottom, course SW., at bend. Canyon comes from NW. Asc. 46 ft.
- 37.80 Top of spur, projecting W. Desc. 40 ft.
- 40.91 Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the ground, for  $\frac{1}{4}$  sec. cor., marked on brass cap



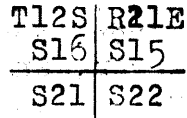
- and raise a mound of stone, 2 ft. base,  $1\frac{1}{2}$  ft. high, W. of cor.
- Desc. 40 ft.
- 44.70 Junction of canyon from the E. with canyon from N.; width on bottom at junction, 50 lks., and course thence, SW. Asc. 160 ft. on abrupt slope.
- 54.50 Top of rocky spur, projecting W. Desc. abruptly, 250 ft., over cliffs and ledges.
- 66.90 Rockhouse Canyon, 100 lks. wide at bottom, course W. Asc. abruptly, 370 ft., over rocky NE. slope of mountain.
- 80.91 The cor. of secs. 2, 3, 10 and 11.

Land, mountainous.  
 Soil, rocky; 4th rate.  
 Timber, scattering scrub oak on N. slopes.  
 Undergrowth, scrub oak and lechuguilla.

- From the reestablished cor. of secs. 21, 22, 27 and 28, hereinbefore described;
- N.0°02'W., bet. secs. 21 and 22, over rocky, hilly land. Asc. 150 ft.
- 11.00 Top of spur, projecting SW. Desc. 80 ft.
- 25.50 Ravine, 30 lks. wide at bottom, course S.15°W. Asc. 100 ft., along E. slope of spur.
- 40.00 Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the ground, for  $\frac{1}{4}$  sec. cor., marked on brass cap



- and raise a mound of stone, 2 ft. base,  $1\frac{1}{2}$  ft. high, W. of cor.
- Thence along E. slope of spur.
- 80.00 Set a iron post, 3 ft. long, 2 ins. diam., 24 ins. in the ground, for cor. of secs. 15, 16, 21 and 22, marked on brass cap



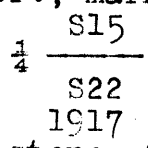
- 1917.
- and raise a mound of stone, 2 ft. base,  $1\frac{1}{2}$  ft. high, W. of cor.

Chains

Land, hilly.  
Soil, rocky; 4th rate.  
No timber.  
Undergrowth, scattering mesquite and lechuguilla.

40.00 S. 89°42'E., on a random line, bet. secs. 15 and 22.  
Set temp.  $\frac{1}{4}$  sec. cor.  
80.28 Intersect N. and S. line at the cor. of secs. 14, 15, 22 and 23.

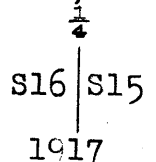
Thence N. 89°42'W., on a true line, bet. secs. 15 and 22, over hilly, rocky land. Asc. 25 ft.  
1.50 Summit of spur, projects SE. Desc. 120 ft.  
8.90 Ravine, 100 lks. wide at bottom, course SW. Thence over rolling land.  
33.30 Ravine, 20 lks. wide at bottom, course S.; heads 3 chs. N. of line. Thence over level land.  
40.14 Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the ground, for  $\frac{1}{4}$  sec. cor., marked on brass cap



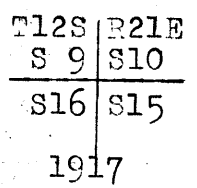
and raise a mound of stone, 2 ft. base, 1½ ft. high, N. of cor.  
56.56 Ravine, 30 lks. wide on bottom, 25 ft. deep, course S. Asc. 60 ft.  
66.00 Top of flat ridge, bears N. and S. Desc. 55 ft.  
75.50 Ravine, 25 lks. wide at bottom, course SW. Asc. 40 ft.  
80.28 The cor. of secs. 15, 16, 21 and 22.

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

10.00 N. 0°02'W., bet. secs. 15 and 16, over rolling land: Asc. 40 ft.  
Summit, bears NE. and SW. Thence through scattering mesquite growth.  
31.50 Leave flat, bears NE. and SW. Mesquite growth ceases. Desc. into Pine Canyon.  
40.00 Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the ground, for  $\frac{1}{4}$  sec. cor., marked on brass cap



and raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor.  
56.16 Pine Canyon, 100 lks. wide on bottom, course SW. Asc. 475 ft. on abrupt slope.  
80.00 Set an iron post, 3 ft. long, 2 ins. diam., 24 ins. in the ground, for cor. of secs. 9, 10, 15 and 16, marked on brass cap



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

Land, rolling on S. 31½ chs. and mountainous on remainder of line.

Chains

Soil, rocky; 4th rate.  
 Timber, scattering mesquite and cedar.  
 Undergrowth, mesquite, lechuguilla.

40.00 S. 89°42'E., on a random line, bet. secs. 10 and 15.  
 Set temp.  $\frac{1}{4}$  sec. cor.  
 80.36 Intersect N. and S. line 2 lks. S. of the cor. of secs.  
 10, 11, 14 and 15.

Thence N. 89°43'W., on a true line, bet. secs. 10 and 15,  
 over rocky, mountainous land. Desc. 400 ft., over  
 SW. slope of Bald Ridge.

33.60 Ravine, 25 lks. wide on bottom, course S.; heads 4 chs. N.  
 Asc. 50 ft.

39.80 Edge of flat ridge, bears NE. and SW. Desc. over  $\frac{1}{4}$  sec. on  
 abrupt slope, into Pine Canyon.

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

S10  
 $\frac{1}{4}$  —————  
 S15  
 1917

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

Pine Canyon, 2 chs. wide on bottom, course SW., 430 ft.  
 below top of ridge. Asc. abruptly, 300 ft., on rocky  
 SE. slope.

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

Land, mountainous.  
 Soil, rocky; 4th rate.  
 Timber, mesquite; scattering.  
 Undergrowth, lechuguilla and mesquite.

N. 0°02'W., bet. secs. 9 and 10,  
 over rocky, mountainous land. Asc. 30 ft.

2.24 Summit of ascent, bears NE. and SW. Thence over flat ridge.  
 12.50 Desc. 140 ft., over rocky NW. slope.

21.10 Ravine, 15 lks. wide at bottom, course SW.; heads 5 chs. E.  
 of line. Asc. 60 ft.

29.60 Top of ridge, bears E. and W. Desc. 310 ft.

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

$\frac{1}{4}$   
 S 9 | S10  
 1917

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

40.20 bottom of ravine, 20 lks. wide, course W. Asc. 120 ft.

45.10 Top of spur, projecting W. Desc. 320 ft.

57.30 Rockhouse Canyon, course SW. Asc. abruptly, 360 ft., over  
 rocky SE. slope.

71.00 Top of ridge, bears N. 75°E. and S. 75°W. Desc. 120 ft., over  
 rocky NW. slope.

80.00 Set an iron post, 3 ft. long, 2 ins. diam., 24 ins. in the  
 ground, for cor. of secs. 3, 4, 9 and 10, marked on brass  
 cap

T12S | R21E  
 S4 | S3  
 S 9 | S10  
 1917

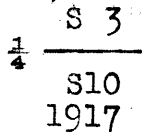
and raise a mound of stone, 2 ft. base,  $1\frac{1}{2}$  ft. high,  
 W. of cor.

Chains

Land, mountainous.  
Soil, rocky; 4th rate.  
Timber, scattering cedar.  
Undergrowth, mesquite.

40.00 S. 89°43'E., on a random line, bet. secs. 3 and 10.  
Set temp. 1/4 sec. cor.  
80.16 Intersect N. and S. line 7 lks. N. of cor. of secs. 2, 3,  
10 and 11.

Thence N. 89°40'W., on a true line, bet. secs. 3 and 10,  
over rocky, mountainous land. Desc. 235 ft.  
13.00 Ravine, 25 lks. wide at bottom, course N. Asc. 160 ft.  
20.00 Top of ridge, bears N. and S. Desc. 320 ft.  
36.00 Ravine, 30 lks. wide at bottom, course NW. Asc. E slope  
of spur.  
40;08 Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the  
ground, for 1/4 sec. cor., marked on brass cap

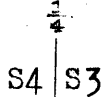


and raise a mound of stone, 2 ft. base, 1 1/2 ft. high,  
N. of cor.  
48.50 Top of spur, projecting N.; 80 ft. above ravine. Desc. 150 ft.  
54.50 Rockhouse Canyon, 100 lks. wide, course SW. Asc. 410 ft.,  
over abrupt slope, over slide rock and ledges.  
64.90 Top of ridge, bears NE. and SW. Desc. 230 ft., over  
rocky W. slope.  
80.16 The cor. of secs. 3, 4, 9 and 10.

Land, mountainous.  
Soil, rocky; 4th rate.  
Timber, scattering cedar.  
Undergrowth, lechuguilla.

40.00 N. 0°02'W., on a random line, bet. secs. 3 and 4.  
Set temp. 1/4 sec. cor.  
80.30 Intersect N. bdy. of T. 51 lks. W. of the cor. of secs.  
3 and 4, hereinbefore described.

Thence S. 0°20'W., on a true line, bet. secs. 3 and 4,  
over rocky, mountainous land. Desc. 100 ft., along  
E. slope of N. and S. ridge.  
40.30 Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the  
ground, for 1/4 sec. cor., marked on brass cap



and raise a mound of stone, 2 ft. base, 1 1/2 ft. high,  
W. of cor.  
Desc. 350 ft., along E. slope of ridge.  
77.50 Bottom of ravine, 50 lks. wide, course SW. Asc. 70 ft.  
80.30 The cor. of secs. 3, 4, 9 and 10.

Land, mountainous.  
Soil, rocky; 4th rate.  
No timber.  
Undergrowth, lechuguilla.

## Chains

From the original cor. of secs. 20, 21, 28 and 29, which is a volcanic stone, 1<sup>2</sup>x15x8 ins. above ground, in a mound of stone, marked and witnessed as described by the Surveyor General;

N.0°02'W., bet. secs. 20 and 21, over rocky, mountainous land. Asc. along E, side of ridge.

- 5.72 Barbed wire fence, bears E. and W.  
 16.60 Top of ridge, bears NE. and SW., 150 ft. above sec. cor. Desc. 110 ft.  
 25.80 Ravine, 10 lks. wide at bottom, course SW. Asc. 90 ft.  
 29.10 Top of spur, projects W. Desc. 110 ft.  
 34.80 Gulch, 20 lks. wide at bottom, course SW. Asc. 140 ft.  
 40.00 Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the ground, for  $\frac{1}{4}$  sec. cor., marked on brass cap

$\frac{1}{4}$   
 S20 | S21

1916

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

Asc. 50 ft.

- 42.30 Top of spur, projecting W. Desc. 210 ft.  
 50.26 Rocky gulch, 20 lks. wide on bottom, course W. Asc. 120 ft.  
 56.98 Top of spur, projecting SW. Desc. 80 ft.  
 63.08 Ravine, 30 lks. wide at bottom, course SW. Asc. 200 ft.  
 76.16 Top of ridge, bears NE. and SW. Desc. 60 ft.  
 80.00 Set an iron post, 3 ft. long, 2 ins. diam., 6 ins. in the ground to bed-rock and 18 ins. in a mound of stone, for cor. of secs. 16, 17, 20 and 21, marked on brass cap

T12S | R21E  
 S17 | S16  
 S20 | S21

1916

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

Land, rocky; 4th rate.

Soil, rocky; 4th rate.

No timber.

Undergrowth, lechuguilla, mesquite and mescal.

**EAST**, on a random line, bet. secs. 16 and 21.

- 40.00 Set temp.  $\frac{1}{4}$  sec. cor.  
 40.26 Intersect N. and S. line 16 lks. N. of the cor. of secs. 15, 16, 21 and 22.

Thence N.89°53'W., on a true line, bet. secs. 16 and 21, over rocky, rolling and hilly land. Asc. 40 ft.

- 5.00 Top of flat spur, projecting S. Thence over rolling land.  
 20.00 Desc. 100 ft.  
 29.70 Ravine, 25 lks. wide, course SW.; heads 10 chs. NE. Asc. 20 ft.  
 40.13 Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the ground, for  $\frac{1}{4}$  sec. cor., marked on brass cap

$\frac{1}{4}$   
 S16  
 S21

1917

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

- 41.00 Top of spur, projecting S. Desc. 30 ft.  
 47.65 Ravine, 15 lks. wide, course S.; heads 3 chs. N. Asc. 60 ft.  
 58.08 Rim of Pine Canyon, bears NE. and SW. Desc. 190 ft., along

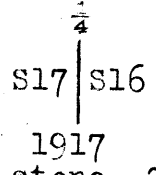
Completion of Subdivision of T. 12 S., R. 21 E. 29

Chains

- 75.00 top of ridge.
- 75.00 Leave top of ridge, bearing E. and SW. Desc. 40 ft., along N. side of same.
- 80.26 The cor. of secs. 16, 17, 20 and 21.

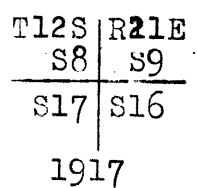
Land, rolling and hilly.  
 Soil, rocky; 4th rate.  
 No timber.  
 Undergrowth, mesquite, lechuguilla and mescal.

- 16.20 N.0°02'W., bet. secs. 16 and 17, over rocky, mountainous land. Desc. 350 ft., on NW. slope.
- 16.20 Pine Canyon, 100 lks. wide, course SW. Asc. abruptly, 340 ft.
- 40.00 Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the ground, for  $\frac{1}{4}$  sec. cor., marked on brass cap



and raise a mound of stone, 2 ft. base,  $1\frac{1}{2}$  ft. high, W. of cor. Asc. 100 ft.

- 46.60 Top of ridge, bears E. and W. Desc. 270 ft.
- 61.80 Ravine, 25 lks. wide on bottom, course W. Asc. 110 ft.
- 73.30 Top of spur, bears NW. Desc. 225 ft., over rocky NW. slope.
- 80.00 Set an iron post, 3 ft. long, 2 ins. diam., 24 ins. in the ground, for cor. of secs. 8, 9, 16 and 17, marked on brass cap

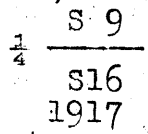


and raise a mound of stone, 2 ft. base,  $1\frac{1}{2}$  ft. high, W. of cor.

Land, mountainous.  
 Soil, rocky; 4th rate.  
 Timber, scattering cedar.  
 Undergrowth, mesquite and lechuguilla.

- 40.00 S.89°53'E., on a random line, bet. secs. 9 and 16.
- 40.00 Set temp.  $\frac{1}{2}$  sec. cor.
- 80.14 Intersect N. and S. line 9 lks. S. of the cor. of secs. 9, 10, 15 and 16.

- 10.00 Thence N.89°57'W., on a true line, bet. secs. 9 and 16, over rocky, mountainous land. Asc. 30 ft.
- 10.00 Summit of ascent, on ridge, bearing N.70°E. and S.70°W. Desc. along N. slope, 380 ft., to  $\frac{1}{4}$  sec. cor. pt.
- 40.07 Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the ground, for  $\frac{1}{4}$  sec. cor., marked on brass cap



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

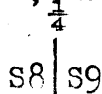
- 51.00 Desc. along N. slope, 50 ft.
- 61.70 Begin 25 ft. ascent.
- 61.70 Summit of ascent, on spur, projecting NW. Desc. 100 ft.
- 67.80 Ravine, 30 lks. wide on bottom, course NW. Desc. along

Chains

80.14 S. side of same, 70 ft.  
The cor. of secs. 8, 9, 16 and 17.

Land, mountainous.  
Soil, rocky; 4th rate.  
Timber, scattering cedar.  
Undergrowth, mesquite and lechuguilla.

.75 N.0°02'W., bet. secs. 8 and 9,  
over rocky, mountainous land. Desc. 20 ft.  
4.70 Bottom of ravine, 30 lks. wide, course W. Asc. 70 ft.  
13.80 Top of spur, projecting SW. Desc. 70 ft.  
22.60 Rockhouse Canyon, 100 lks. wide at bottom, course SW.  
Ravine, 15 lks. wide at bottom, course S.10°E. Asc. 150  
ft.  
35.90 Top of ridge, bears NE. and SW. Desc. into ravine.  
40.00 Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the  
ground, for  $\frac{1}{4}$  sec. cor., marked on brass cap



1917

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

41.90 Bottom of ravine, 30 lks. wide at bottom, course W. Asc.  
80 ft.

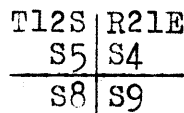
49.144 Top of spur, projecting SW. Desc. 150 ft.

58.30 East fork of Bass Canyon, 50 lks. wide at bottom, course  
SW. Asc. 140 ft.

71.80 Summit of ascent, on spur, projecting E. Desc. 40 ft.

79.00 Bottom of ravine, 15 lks. wide at bottom, course E.  
Asc. 25 ft.

80.00 Set an iron post, 3 ft. long, 2 ins. diam., 24 ins. in the  
ground, for cor. of secs. 4, 5, 8 and 9, marked on brass  
cap,



1917

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 oak and cedar.  
Undergrowth, scrub oak, mesquite and lechuguilla.

40.00 S.89°57'E., on a random line, bet. secs. 4 and 9.  
Set temp.  $\frac{1}{4}$  sec. cor.

80.20 Intersect N. and S. line 12 lks. S. of the cor. of secs.  
3, 4, 9 and 10.

Thence S.89°58'W., on a true line, bet. secs. 4 and 9,  
over rocky, mountainous land. Desc. 80 ft.

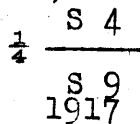
3.20 Ravine, 50 lks. wide on bottom, course S.60°W. Asc. 130 ft.

12.30 Top of spur, projects S. Desc. 170 ft.

23.20 Ravine, 20 lks. wide on bottom, course S. Asc. 110 ft.

31.15 Top of spur, projects S. Desc. into ravine.

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





Chains

- and raise a mound of stone, 2 ft. base, 1½ ft. high, N. of cor.
- 44.00 Rocky gulch, 15 lks. wide on bottom, course SW., 270 ft. below spur. Asc. 170 ft.
- 52.70 Top of spur, projects SW. Desc. 80 ft.
- 57.40 Rocky gulch, 20 lks. wide on bottom, course S.20°W. Asc. 200 ft.
- 64.24 Top of ridge, bears N. and S. Desc. 260 ft.
- 76.40 East fork of Bass Canyon, 50 lks. wide on bottom, course S. Asc. 90 ft.
- 80.20 The cor. of secs. 4, 5, 8 and 9.

Land, mountainous.  
 Soil, rocky; 4th rate.  
 Timber, scattering cedar.  
 Undergrowth, mescal and lechuguilla.

- N.0°02'W., on a random line, bet. secs. 4 and 5.
- 40.00 Set temp. ¼ sec. cor.
- 80.45 Intersect N. bdy. of Tp., 28 lks. W. of the cor. of secs. 4 and 5, hereinbefore described.

Thence S.0°10'W., on a true line, bet. secs. 4 and 5, over rocky, mountainous land. Desc. 170 ft., over S. slope.

- 6.30 Ravine, 30 lks. wide on bottom, course W. Asc. 90 ft.
- 15.30 Top of spur, projects S.80°W. Desc. 225 ft., over rocky S. slope.
- 22.10 Rocky gulch, 30 lks. wide on bottom, course S.80°W. Asc. on side of spur.
- 24.00 Water hole bears W., 12 chs. dist.
- 25.60 Hancock's stone house bears W., 8 chs. dist.
- 26.00 Top of spur, projects W. Desc. 140 ft., along W. slope.
- 38.20 Ravine, 25 lks. wide on bottom, course W. Asc. 30 ft.
- 40.45 Set an iron post, 3 ft. long, 1 in. diam., 14 ins. in the ground to bed rock, and 12 ins. in a mound of stone, for ¼ sec. cor., marked on brass cap

1/4  
 S5 | 34

1917

- and raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor.
- Desc. 70 ft., along W. slope.
- 49.90 East fork of Bass Canyon, 50 lks. wide on bottom, course SE. Asc. 50 ft.
- 74.70 Top of spur, projecting E. Desc. 25 ft.
- 80.45 The cor. of secs. 4, 5, 8 and 9.

Land, mountainous.  
 Soil, rocky; 4th rate.  
 Timber, scattering cedar and oak in ravines.  
 Undergrowth, scrub oak and lechuguilla.

From the cor. of secs. 19, 20, 29 and 30, which is a volcanic stone, 12x8x6 ins. above ground, firmly set, marked and witnessed as described by the Surveyor General;

- N.0°03'W., bet. secs. 19 and 20, over rocky, mountainous land. Asc. 30 ft.
- 2.20 Top of spur, projects W. Desc. into ravine.
- 17.30 Barbed wire fence, bears N.72°W. and S.72°E.
- 25.15 Ravine, 20 lks. wide on bottom, course SW., 110 ft. below spur. Asc. 110 ft.

## Chains

- 33.60 Top of short spur, projecting E. Desc. 30 ft.  
 37.26 Same ravine, 20 lks. wide, course SE. Asc. 20 ft.  
 40.00 Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the ground, for  $\frac{1}{4}$  sec. cor., marked on brass cap

$$\begin{array}{c} \frac{1}{4} \\ | \\ S19 | S20 \end{array}$$

1916

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

Asc. 75 ft.

- 50.14 Top of spur, projecting E. Desc. 15 ft.  
 54.90 Head of ravine, 10 lks. wide on bottom, course SE. Asc. 150 ft., along E. slope of mountain.  
 72.00 Top of spur, projecting E. Desc. 45 ft.  
 79.65 Head of ravine, 10 lks. wide on bottom, course SE. Asc. 20 ft.  
 80.00 Set an iron post, 3 ft. long, 2 ins. diam., 24 ins. in the ground, for cor. of secs. 17, 18, 19 and 20, marked on brass cap

$$\begin{array}{c} T12S | R21E \\ S18 | S17 \\ \hline S19 | S20 \end{array}$$

1916

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

Land, mountainous.

Soil, rocky and gravelly; 4th rate.

Timber, scattering cedar.

Undergrowth, mesquite and lechuguilla.

- 40.00 EAST, on a random line, bet. secs. 17 and 20.  
 Set temp.  $\frac{1}{4}$  sec. cor.  
 79.98 Intersect N. and S. line 2 lks. S. of the cor. of secs. 16, 17, 20 and 21.  
 Thence S.  $89^{\circ}59'$  W., on a true line, bet. secs. 17, & 20, over rocky, mountainous land. Desc. 380 ft., over rocky NE. slope.  
 24.70 Pine Canyon, 100 lks. wide on bottom, course SW. Asc. 190 ft., over rocky E. slope.  
 36.50 Top of ridge, bears NE. and SW. Desc. 75 ft.  
 39.99 Set an iron post, 3 ft. long, 1 in. diam., 12 ins. in the ground to solid rock and 14 ins. in a mound of stone, for  $\frac{1}{4}$  sec. cor., marked on brass cap

$$\begin{array}{c} S17 \\ \hline \frac{1}{4} \\ S20 \end{array}$$

1917

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

Desc. 200 ft., over rocky W. slope.

- 46.90 Rocky ravine, 50 lks. wide on bottom, course SW. Asc. 20 ft.  
 53.70 Top of spur, projecting S. Desc. 40 ft.  
 55.10 Bass Canyon, 200 lks. wide at bottom, course S. Asc. 400 ft. over steep, rocky NE. slope.  
 71.66 Top of spur, projecting SE. Thence along S. slope.  
 79.98 The cor. of secs. 17, 18, 19 and 20.

Land, mountainous.

Soil, rocky; 4th rate.

Timber, scattering cedar in canyons.

Undergrowth, mesquite and lechuguilla.

Chains

40.00 S. 89° 57' W., on a random line, bet. secs. 18 and 19.  
 Set temp.  $\frac{1}{4}$  sec. cor.  
 79.61 Intersect W. bdy. of Tp. 19 lks. S. of the cor. of secs.  
 13, 18, 19 and 24, hereinbefore described.

Thence S. 89° 55' E., on a true line, bet. secs. 18 and 19,  
 over rocky, mountainous land, broken by steep cliffs  
 and ledges. Asc. 25 ft.

2.33 Top of spur, projects SW. Desc. 20 ft.  
 8.78 Ravine, 15 lks. wide, course SW. Asc. 180 ft.  
 16.75 Top of rocky spur, projects SW. Desc. 10 ft.  
 19.60 Head of ravine, 10 lks. wide on bottom, course SW. Asc.  
 10 ft.

24.35 Top of spur, projecting SE. Desc. 110 ft.  
 31.86 Hackberry Canyon, 15 lks. wide at bottom, course SE.  
 Asc. abruptly, 90 ft.

36.27 Top of rocky spur, projects S. Desc. 40 ft.  
 38.60 Sandstone cliff, 20 ft. high, bears N. and S. Desc. 20  
 ft.

39.40 Ravine, 10 lks. wide at bottom, course SE. Asc. 10 ft.

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

S18

$\frac{1}{4}$

S19

1916

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

Asc. 90 ft.

42.96 Top of rocky spur, projects S. Desc. 160 ft.

51.80 Rocky gulch, 100 lks. wide, course S. The junction of  
 two gulches, one from NE. and the other from NW., bears  
 N., 3 chs. dist.

Asc. 260 ft., over cliffs.

57.22 Top of rocky spur, projects SW. Desc. 50 ft.

65.82 Gulch, 50 lks. wide, course SW. Asc. 230 ft.

74.42 Top of ridge, bears N. and S. Desc. 120 ft.

79.61 The cor. of secs. 17, 18, 19 and 20.

Land, mountainous.

Soil, rocky; 4th rate.

Timber, ash, sycamore and hackberry along gulches and  
 canyons.

Undergrowth, mesquite and lechuguilla.

N. 0° 03' W., bet. secs. 17 and 18,  
 over rocky, mountainous land. Asc. 66 ft.

3.25 Top of spur, projects SE. Desc. 325 ft.

21.60 Ravine, 32 lks. wide on bottom, course SE.; heads 5 chs.  
 NW. of line. Asc. 235 ft.

35.10 Top of rocky ridge, bears E. and W. Thence along NW. slope  
 of ridge.

40.00 Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in a  
 mound of stone on bed-rock, for  $\frac{1}{4}$  sec. cor., marked  
 on brass cap

$\frac{1}{4}$

S18 | S17

1917

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

Desc. 100 ft.

53.30 Ravine, 40 lks. wide at bottom, course E. Asc. 100 ft.

61.80 Top of rocky spur, projecting E. Desc. 105 ft.

66.30 West fork of Bass Canyon, 50 lks. wide at bottom, course E.  
 Asc. 150 ft., over general S. slope.

80.00 Set an iron post, 3 ft. long, 2 ins. diam., 14 ins. in  
 the ground, 10 ins. in a mound of stone, for cor. of  
 secs. 7, 8, 17 and 18, marked on brass cap

Chains

T12S	R21E
S7	S8
S18	S17

1917

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

Land, mountainous.  
Soil, rocky; 4th rate.  
Timber, scattering cedar and scrub oak.  
Undergrowth, lechuguilla and scrub oak.

40.00 N. 89° 59' E., on a random line, bet. secs. 8 and 17.  
Set temp. ¼ sec. cor.  
79.72 Intersect N. and S. line 7 lks. S. of the cor. of secs. 8, 9, 16 and 17.

11.10 Thence S. 89° 56' W., on a true line, bet. secs. 8 and 17, over rocky, mountainous land. Desc. 50 ft., along S. side of ravine.

21.90 Rockhouse Canyon, 100 lks. wide at bottom, course SW. Asc. 220 ft.

30.80 Top of spur, projects SW. Desc. 170 ft.

39.86 East fork of Bass canyon, 100 lks. wide at bottom, course S. Asc. abruptly over rocky E. slope of ridge.

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

S 8

¼

S17

1917

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

42.25 Top of ridge, bears N. and S., 300 ft. above bottom of canyon. Desc. 270 ft.

60.90 Redus Canyon, 75 lks. wide at bottom, course S. Asc. 220 ft. over E. slope.

76.00 Top of spur, projects SE.

79.72 The cor. of secs. 7, 8, 17 and 18.

Land, mountainous.  
Soil, rocky; 4th rate.  
Timber, scattering cedar and scrub oak.  
Undergrowth, mesquite and lechuguilla.

40.00 N. 89° 55' W., on a random line, bet. secs. 7 and 18.  
Set temp. ¼ sec. cor.  
79.67 Intersect W. bdy. of Tp. 5 lks. N. of the cor. of secs. 7, 12, 13 and 18, hereinbefore described.

7.40 Thence S. 89° 57' E., on a true line, bet. secs. 7 and 18, over rocky, mountainous land. Asc. 135 ft.

19.70 Top of rim-rock ridge, bears N. 10° W. and S. 10° E. Desc. 160 ft., over E. slope.

39.67 Hackberry Canyon, 50 lks. wide at bottom, course SE. Asc. ridge.

Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in a mound of stone, for ¼ sec. cor., marked on brass cap

S 7

¼

S18

1917

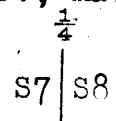
and raise a mound of stone, 2 ft. base, 1½ ft. high, N. of cor.

Chains

- 41.30 Top of rocky ridge, bears NW. and SE., 200 ft. above bottom of canyon. Desc. 290 ft., over rocky E. slope.
- 56.10 W. fork of Bass Canyon, 200 lks. wide at bottom, course SE. Asc. 40 ft.
- 61.00 Ft. of steep rim-rock cliffs. Asc. 200 ft.
- 65.50 Top of rim-rock cliffs, bearing NW. and SE. Desc. 130 ft., over E. slope.
- 79.67 The cor. of secs. 7, 8, 17 and 18.

Land, mountainous.  
 Soil, rocky; 4th rate.  
 Timber, scattering cedar.  
 Undergrowth, mesquite.

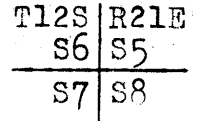
- N.0°03'W., bet. secs. 7 and 8, over rocky, mountainous land. Asc. 130 ft.
- 13.90 Top of spur, projects SE. Thence along E. slope.
- 21.95 Top of spur, projects E. Desc. 50 ft.
- 33.64 Ravine, 30 lks. wide, course S.20°E. Asc. side of spur.
- 40.00 Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the ground, for  $\frac{1}{4}$  sec. cor., marked on brass cap



1917

- and raise a mound of stone, 2 ft. base,  $1\frac{1}{2}$  ft. high, W. of cor.
- 46.20 Top of spur, projects W., 150 ft. above ravine. Desc. 50 ft.

- 54.80 Ravine, 30 lks. wide, course S.10°W. Asc. 250 ft., over rocky cliffs and slide rock, on S. slope.
- 80.00 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. 5, 6, 7 and 8, marked on brass cap



1917

and raise a mound of stone, 2 ft. base,  $1\frac{1}{2}$  ft. high, W. of cor.  
 An oak, 30 ins. diam., bears N.14 $\frac{1}{2}$ °E., 276 lks. dist., marked T12S R21E S5 BT.  
 A cedar, 12 ins. diam., bears N.88 $\frac{1}{2}$ °W., 142 lks. dist., marked T12S R21E S6 BT.  
 No other bearing trees available.

Land, mountainous.  
 Soil, rocky; 4th rate.  
 Timber, scattering cedar and oak.  
 Undergrowth, lechuguilla and mesquite.

- N.89°56'E., on a random line, bet. secs. 5 and 8.
- 40.00 Set temp.  $\frac{1}{2}$  sec. cor.
- 79.64 Intersect N. and S. line 5 lks. S. of the cor. of secs. 4, 5, 8 and 9.

- Thence S.89°54'W., on a true line, bet. secs. 5 and 8, over rocky, mountainous land; ascending on E. slope.
- 11.00 Head of ravine, 15 lks. wide at bottom, course S.80°E.
- 25.52 Top of ridge, bears N.10°E. and S.10°W., 430 ft. above sec. cor. Desc. into Redus Canyon.
- 39.82 Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the ground, for  $\frac{1}{4}$  sec. cor., marked on brass cap

Chains

$\frac{1}{4}$  S 5  
S 8  
1917

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

46.34 Redus Canyon, 150 lks. wide at bottom, course S., 270 ft. below ridge. Asc. 140 ft.

52.20 Top of spur, projects S. Desc. 65 ft.

55.46 Bottom of ravine, 25 lks. wide on bottom, course SE. Asc. 340 ft., over rocky E. slope.

69.60 Top of ridge, bears NW. and SW., at bend. Thence over level land.

79.64 The cor. of secs. 5, 6, 7 and 8.

Land, mountainous.  
Soil, rocky; 4th rate.  
Timber, scattering oak and cedar.  
Undergrowth, scattering scrub oak.

40.00 N.89°57'W., on a random line, bet. secs. 6 and 7. Set temp.  $\frac{1}{4}$  sec. cor.

79.50 Intersect W. bdy. of Tp. 13 lks. S. of the cor. of secs. 1, 6, 7 and 12, hereinbefore described.

Thence S.80°51'E., on a true line, bet. secs. 6 and 7, over rocky, mountainous land. Asc. 330 ft., over W. slope.

17.90 Top of rim-rock ridge, bears N. and S. Desc. 25 ft.

21.50 Head of ravine, 30 lks. wide at bottom, course S. Asc. 50 ft.

25.37 Top of rim-rock, on spur, projecting SE. Desc. 260 ft.

35.60 Head of ravine, 30 lks. wide at bottom, course S. Asc. 70 ft.

39.50 Set an iron post, 3 ft. long, 1 in. diam., 12 ins. in the ground to solid rock and 14 ins. in a mound of stone, for  $\frac{1}{4}$  sec. cor., marked on brass cap

$\frac{1}{4}$  S 6  
S 7  
1917

from which

An oak, 18 ins. diam., bears N., 61 lks. dist., marked  $\frac{1}{4}$  S6 BT.

An oak, 12 ins. diam., bears S.13½°E., 119 lks. dist., marked  $\frac{1}{4}$  S7 BT.

Asc. 20 ft.

41.24 Top of spur, bears SE. Desc. 300 ft.

64.60 Ravine, 100 lks. wide, at bottom, course S. Asc. over rocky W. slope, 260 ft.

79.50 The cor. of secs. 5, 6, 7 and 8.

Land, mountainous.  
Soil, rocky; 4th rate.  
Timber, scattering cedar and oak.  
Undergrowth, scattering scrub oak and manzanita.

40.00 N.0°03'W., on a random line, bet. secs. 5 and 6. Set temp.  $\frac{1}{4}$  sec. cor.

80.60 Intersect N. bdy. of Tp. 30 lks. W. of the cor. of secs. 5 and 6, hereinbefore described.

Thence S.0°10'W., on a true line, bet. secs. 5 and 6, over rocky, mountainous land. Desc. 50 ft.

4.10 Rocky gulch, 50 lks. wide on bottom, course E. Asc. 90 ft.

18.20 Top of ridge, bears NW. and SE. Desc. into ravine.

Completion of Subdivision of T. 12 S., R. 21 E.

Chains

40.60 Set an iron post, 3 ft. long, 1 in. diam., 18 ins. in the ground to solid rock and 8 ins. in a mound of stone, for  $\frac{1}{4}$  sec. cor., marked on brass cap

$\frac{1}{4}$   
S6 | S5  
1917

from which  
 An oak, 10 ins. diam., bears N.60°E., 25 lks. dist., marked  $\frac{1}{4}$  S5 BT.  
 An oak, 8 ins. diam., bears S.46°W., 14 lks. dist., marked  $\frac{1}{4}$  S6 BT.

42.30 Redus Canyon, 50 lks. wide at bottom, course SE., 240 ft. below ridge. Asc. 200 ft., over rocky N. slope.

60.00 Top of flat ridge, bears NW. and SE. Thence over level land.

80.60 The cor. of secs. 5, 6, 7 and 8.

Land, mountainous.  
 Soil, rocky; 4th rate.  
 Timber, scattering cedar and oak.  
 Undergrowth, scrub oak and manzanita.

Boundaries of N. Portion of T. 12 S., R. 21 E.

Latitudes, Departures and Closing Errors.

Line designated	True Course	Dist. chs.	Latitudes		Departures	
			N. chs.	S. chs.	E. chs.	W. chs.
South Boundary, Subdivisional.	N.89°54'W.	80.18	.14			80.18
	N.89°53'W.	80.34	.16			80.34
	N.89°42'W.	80.46	.19			80.46
	S.89°59'W.	40.12		.02		40.12
	N.89°57'W.	40.05	.07			40.05
	S.89°55'W.	80.10		.12		80.10
	N.89°58'W.	80.00	.05			80.00
West Boundary	NORTH	320.07	320.07			
NORTH Boundary	EAST	476.66			476.66	
	N.89°39'E.	3.10	.02		.03	
East Boundary	SOUTH	241.37		241.39		
	S.0°04'E.	79.26		79.76	.09	
Convergency					.31	
Totals			320.70	321.29	480.16	481.25
				320.78		480.16
Error in latitude				.59		
	Error in departure					1.09

**LOCATION:**

The portion of T. 12 S., R. 21 E. covered by this survey is situated immediately W. of the Winchester Mountains and E. of the Caliuro range, which extends through the western part, in a N. and S. direction. The town of Wilcox lies about 25 miles to the SE.

**SURFACE AND SOIL:**

The E. and W. parts are more or less mountainous, while the central portion is open, rolling, and hilly, with some level land. The soil is all rocky; 4th rate. There is no land suitable for cultivation.

**VEGETATION:**

The western part of the township contains some oak, hackberry, cedar, juniper, cottonwood and sycamore, on the slopes and in the canyons; with undergrowth of scrub mesquite, catclaw, mesquite, lecheguilla, cactus, scrub oak and manzanita. A fair growth of grass sufficient to furnish grazing, exists over practically the entire area. Gramma, giatta and mesquite grass are the principal varieties. One section would probably support twenty or thirty head of cattle.

**MINERALS:**

The prevailing geological formation is sandstone and conglomerate, with some granite and malpais. There are no mines or known minerals of value.

**WATER COURSES:**

The township is drained southwesterly into Bass Canyon, a tributary of San Pedro River. The principal canyons emptying into Bass Canyon are Rock-house, Pine, Redus, Hackberry and Double-R. The latter contains permanent water at Double-R Springs. The other canyons contain water during part of the year only.

**SPRINGS AND WELLS:**

Double-R Spring, above described, is located in the NW.  $\frac{1}{4}$  of the NW.  $\frac{1}{4}$  of sec. 19, and has a flow of about 5 gallons per minute. There is a well at Angle's sheep camp in the NW.  $\frac{1}{4}$  of the NE.  $\frac{1}{4}$  of sec. 11. This well is 60 ft. deep, and contains water only during the wet season, when water runs in Rock-house Canyon. A natural pond is situated in the SE.  $\frac{1}{4}$  of the NE.  $\frac{1}{4}$  of sec. 5, at Hancock's camp; but is in a rocky canyon, inaccessible as a public watering place.

**SETTLERS:**

Settlers are located in secs. 5, 11 and 12.

**VALUE:**

The township is valuable chiefly for stock grazing and for wood.

Co. 12 S.  
R. 21 E.

SO.

12 S.

21 E.

12 S.



Book "I"

Group 63 - - Arizona.

4-680

BOOK 3012

Township 12 South, Range 21 East.

DATE DIAGRAM.

	12-22-16	1-13-17	1-13-17	1-13-17	1-13-17	1-13-17, 1-12-17
12-22-16	6	5	4	3	2	1
12-20-16	2-3-17	2-1-17	1-31-17	1-30-17	1-25-17	1-24-17
12-20-16	7	8	9	10	11	12
12-20-16	1-29-17	1-29-17	1-22-17	1-22-17	1-23-17	1-23-17
12-20-16	18	17	16	15	14	13
12-20-16	12-29-16	1-16-17	1-16-17	1-16-17	1-16-17	1-15-17
12-19-16	19	20	21	22	23	24
12-19-16	12-28-16	12-30-16	1-2-17	1-2-17	1-9-17	1-9-17
	30	29	28	27	26	25
			1-2-17	1-10-17	1-10-17	
	31	32	33	34	35	36

Surveys and resurveys executed on dates shown in yellow on above diagram, by Quintin Campbell, U. S. Transitman.

CERTIFICATE OF UNITED STATES SURVEYOR.

I, Quintin Campbell, U. S. Transitman, hereby certify upon honor that, in pursuance of special instructions received from the U. S. Surveyor General for Group 63, Arizona, bearing date of the 7th day of October, 1915, I have well, faithfully, and truly in my own proper person, and in strict conformity with said instructions, the Manual of Surveying Instructions, and the laws of the United States, surveyed all those parts or portions of the West and North boundaries and Subdivision Lines, and resurveyed all those parts or portions of the East and North boundaries and Subdivision Lines of TOWNSHIP 12 SOUTH, RANGE 21 EAST,

of the Gila and Salt River Base and Meridian, in the State of Arizona, which are represented in the foregoing field notes as having been executed by me, and under my direction; and 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 Group 63, Arizona, and in the specific manner described in the field notes, and that the foregoing are the original field notes of such survey.

*Quintin Campbell*  
 U. S. Transitman.

APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Phoenix, Arizona, April 29, 1918.

The foregoing field notes of the survey of part of the West and part of the North boundaries and completion of the subdivision lines; and the resurvey of the East and part of the North boundaries and part of the subdivision lines of TOWNSHIP 12 SOUTH, RANGE 21 EAST, of the Gila and Salt River Base and Meridian, in the State of Arizona,

executed by Quintin Campbell, U. S. Transitman, under his special instructions dated October 7, 1915, for Group 63, Ariz., having been critically examined, and the necessary corrections and explanations made, the said field notes, and the surveys and resurveys they describe, are hereby approved.

*Frank B. Smith*  
 U. S. Surveyor General.

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.

U. S. Surveyor General.