

3372

Book "J"

4-679

BOOK 3372

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COMPARED

FIELD NOTES

OF THE RETRACEMENT OF

Part of the Subdivision lines of

TOWNSHIP 18 NORTH, RANGE 12 EAST,

the SURVEY of

East boundary of TOWNSHIP 18 NORTH, RANGE 12 EAST, and

South, West boundary, North boundary, and

TOWNSHIP 18 NORTH, RANGE 12 EAST, and

the SURVEY of

Part of the Subdivision lines of

TOWNSHIP 18 NORTH, RANGE 12 EAST,

Of the Gila and Salt River Base and Meridian,

In the State of Arizona.

EXECUTED BY

Sidney E. Blout.

In the capacity of U. S. Surveyor, under Special Instructions dated December 1, 1916 issued by the United States Surveyor General to govern surveys included in Group No. 79, Arizona, which were approved by the Commissioner of the General Land Office, December 19, 1916, and Assignment Instructions dated April 5, 1917

Retracement.
Resurvey & Survey commenced April 12, 1917.

Retracement.
Resurvey & Survey completed May 4, 1917.

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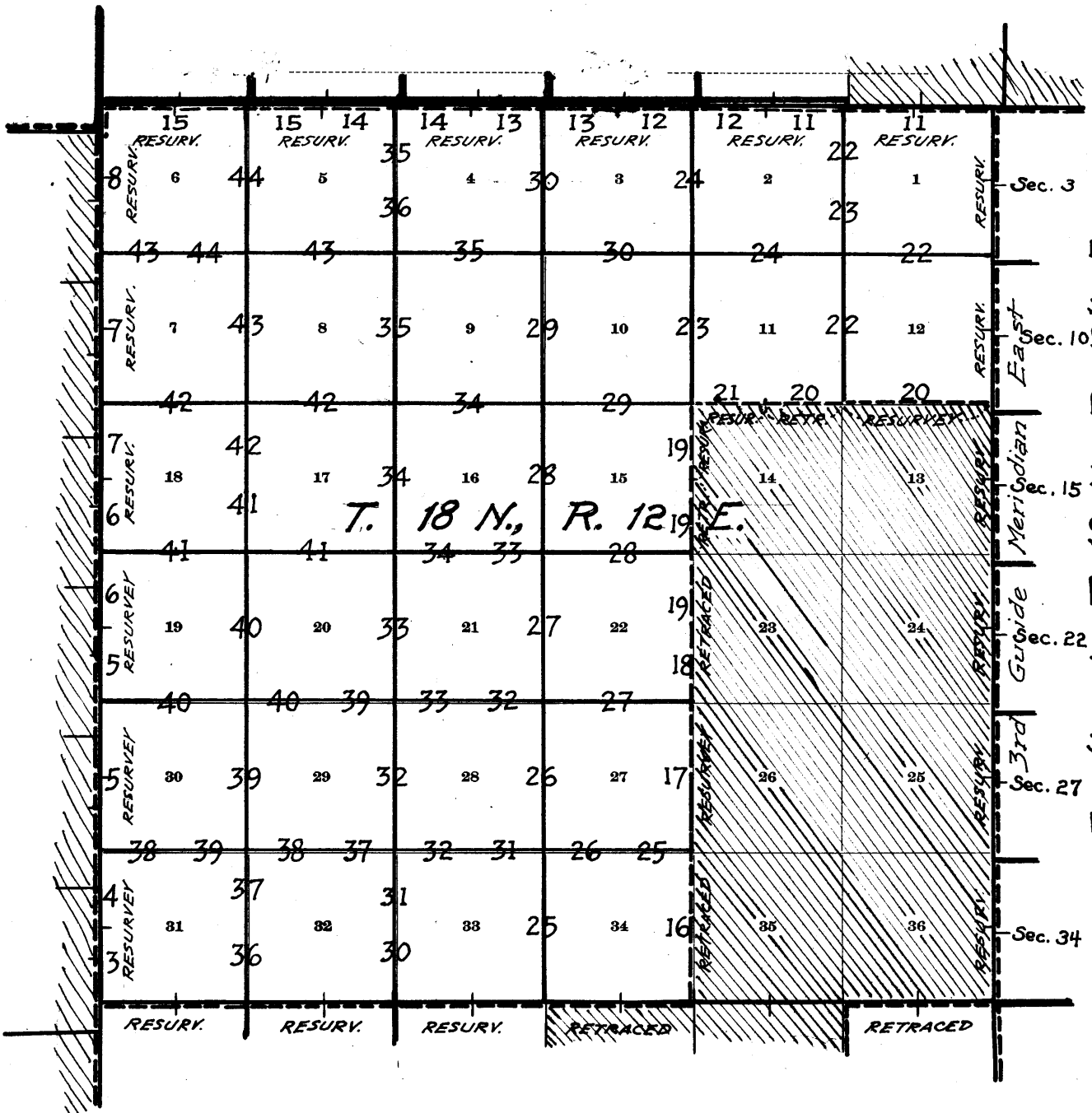
1A.
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Book "J"

BOOK 3372

INDEX DIAGRAM.



Meridian East
T. 18 N., R. 12 1/2 E.

- Lines surveyed under this group.
- Lines retraced or resurveyed under this group.
- Lines surveyed under Group 78.
- Lines retraced or resurveyed under Group 78.
- Accepted surveys.
- ▨ Areas surveyed as per accepted plats on file.

Chains.

Retracements, Resurveys and Surveys hereinafter described, executed by Sidney E. Blout, U.S. Surveyor, on the dates shown on the diagram on page 46, using A. Lietz light mountain transit No. 6166, the instrument being equipped with Smith solar attachment.

For description of instrument, together with record of approval, see Book "A."

From recent and repeated field tests of instrument No. 6166 on a meridian determined with observations on Polaris, the instrument and solar attachment are known to be in satisfactory adjustment.

Throughout the survey of this township, frequent tests on the meridian were made to insure the proper adjustment of the instrument at all times.

The magnetic declination is 14°30' E.

Resurvey of West bdy. of Township 18 North, Range 12 East.

Retracement for Resurvey:

The S. 1/2 of E. bdy. of sec. 36, T. 18 N., R. 12 E., was retraced as described in Book "I," and a true course and dist. of N. 0° 7' E. 40.00 chs. determined thereby. The cor. of Ts. 17 and 18 N., R. 12 E. was established at 11.15 chs. N. 0° 7' E. from the cor. of Ts. 17 and 18 N., R. 11 E.; therefore the original 1/2 sec. cor. of sec. 36, T. 18 N., R. 11 E., is 28.85 chs. N. 0° 7' E. from cor. of Ts. 17 and 18 N., R. 12 E.

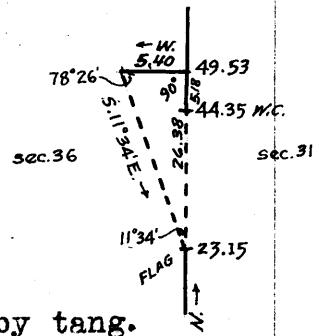
Preliminary to the resurvey of W. bdy. of T. 18 N., R. 12 E., make retracement of the remainder of E. bdy. of T. 18 N., R. 11 E., and part of E. bdy. of T. 19 N., R. 11 E., beginning at the original 1/2 sec. cor. of secs. 31 and 36, described in Book "I."

Thence,

North, on random line, on E. bdy. of sec. 36 (N. 1/2).

23.15 S. rim of Grapevine Canyon, brs. E. and W. Chain measurement across canyon is impracticable; therefore, triangulate as follows:

Leave flag at this point. From a point on random line on N. rim of canyon, measure a base west, 5.40 chs. From west end of base, flag brs. S. 11° 34' E. Included angles are 78° 26', 90° 00', and 11° 34', the sum of which is 180° 00'.



Dist. from flag to E. end of base is solved by tang. 78° 26' x base, or 4.88605 x 5.40 = 26.38 chs., which added to 23.15 chs., gives 49.53 chs. as the dist. from 1/2 sec. cor. to E. end of base.

From E. end of base, make return measurement, South, 5.18 chs. to point on random line at

44.35 Fall 2 lks. W. of original witness cor. of secs. 25, 30, 31 and 36 on record as set at 4.40 chs. N. of true point for sec. cor. This W.C. is a limestone 10x8x6 ins. above ground, firmly set, marked "WC" on NE. face, 1 notch on S. edge, and 5 notches on N. edge, and witnessed by mound of stone, W. of cor., and two bearing trees properly marked, one each NE. and NW. of cor.

True course and dist. of N. 1/2 of E. bdy. of sec. 36 are therefore N. 0° 2' E., 39.95 chs.

From true point for cor. of secs. 25, 30, 31 and 36 in Grapevine Canyon, North, on random line, on E. bdy. of sec. 25 (S. 1/2).

4.40 By computed measurement to (record dist.) Intersect original W.C. to sec. cor. hereinbefore described,

2. Resurvey of W. bdy. of Township 18 North, Range 12 East.

Chains. Retracement for Resurvey: (continued)

- Thence by chain measurement, continuing the measurement of S. $\frac{1}{2}$ of E. bdy. of sec. 25.
- 9.58 Triangulation point at E. end of base of triangulation, hereinbefore described, is 2 lks. W. of this point.
- 40.00 Fall 2 lks. W. of original $\frac{1}{4}$ sec. cor. of secs. 25 and 30, which is a limestone, 8x6x6 ins. above ground, firmly set, marked " $\frac{1}{4}$ " on W. face, and witnessed by 2 bearing trees properly marked, one each SE. and SW. of cor. True course and dist. of S. $\frac{1}{2}$ of E. bdy. of sec. 25 are therefore N. 0° 2' E., 40.00 chs.
- Thence,
North, on random line, on E. bdy. of sec. 25 (N. $\frac{1}{2}$).
- 40.09 Fall 5 lks. W. of original cor. of secs. 19, 24, 25 and 30, which is a limestone, 10x6x6 ins. above ground, firmly set, marked with 2 notches on S. edge, and 4 notches on N. edge, and witnessed by four bearing trees, properly marked, one each NE., SE., SW. and NW. of cor. True course and dist. of N. $\frac{1}{2}$ of E. bdy. of sec. 25, are therefore N. 0° 4' E., 40.09 chs.
-
- From original cor. of secs. 19, 24, 25 and 30, described above,
North, on random line, on E. bdy. of sec. 24 (S. $\frac{1}{2}$).
- 40.01 Fall 2 lks. W. of original $\frac{1}{4}$ sec. cor. of secs. 19 and 24, which is a limestone, 8x6x6 ins. above ground, firmly set, marked " $\frac{1}{4}$ " on W. face, and witnessed by two bearing trees, one each NE. and NW. of cor., each properly marked. True course and dist. of S. $\frac{1}{2}$ of E. bdy. of sec. 24 are therefore, N. 0° 2' E., 40.01 chs.
- Thence,
North, on random line, on E. bdy. of sec. 24 (N. $\frac{1}{2}$).
- 40.06 Fall 11 lks. W. of original cor. of secs. 13, 18, 19 and 24, which is a limestone, 8x6x6 ins. above ground, firmly set, marked with 3 notches on each of N. and S. edges, and witnessed by a mound of stone, W. of cor., and 2 bearing trees properly marked, one each SE. and NW. of cor. True course and dist. of N. $\frac{1}{2}$ of E. bdy. of sec. 24 are therefore N. 0° 9' E., 40.06 chs.
-
- From original cor. of secs. 13, 18, 19 and 24, described above,
North, on random line, on E. bdy. of sec. 13 (S. $\frac{1}{2}$).
- 40.07 Intersect the original $\frac{1}{4}$ sec. cor. of secs. 13 and 18, which is a limestone 10x8x6 ins. above ground, firmly set, marked " $\frac{1}{4}$ " on W. face, and witnessed by 2 bearing trees properly marked, one each NE. and SW. of cor. True course and dist. of S. $\frac{1}{2}$ of E. bdy. of sec. 13, are therefore North 40.07 chs.
- Thence,
North, on random line, on E. bdy. of sec. 13 (N. $\frac{1}{2}$).
- 40.07 Fall 2 lks. W. of original cor. of secs. 7, 12, 13 and 18, which is a limestone 12x10x8 ins. above ground, firmly set, marked with 4 notches on S. edge, and 2 notches on N. edge, and witnessed by four bearing trees, properly marked, one each NE., SE., SW. and NW. of cor. True course and dist. of N. $\frac{1}{2}$ of E. bdy. of sec. 13 are therefore N. 0° 2' E., 40.07 chs.
-
- From original cor. of secs. 7, 12, 13 and 18, described above,
North, on random line, on E. bdy. of sec. 12 (S. $\frac{1}{2}$).
- 40.03 Fall 1 lks. W. of original $\frac{1}{4}$ sec. cor. of secs. 7 and 12, which is a limestone 10x8x6 ins. above ground firmly set, marked " $\frac{1}{4}$ " on W. face, and witnessed by 2 bearing trees properly marked, one each NW. and SE. of cor.

Resurvey of W. bdy. of Township 18 North, Range 12 East.

Chains. (Retracement for Resurvey (continued))
 True course and dist. of S. $\frac{1}{2}$ of E. bdy. of sec. 12 are therefore N. 0° 1' E., 40.03 chs.
 Thence,
 North, on random line, on E. bdy. of sec. 12 (N. $\frac{1}{2}$).
 40.05 Fall 2 lks. W. of original cor. of secs. 1, 6, 7 and 12, which is a limestone, 10x8x6 ins. above ground, firmly set, marked with 5 notches on S. edge and 1 notch on N. edge, and witnessed by a mound of stone W. of cor. No bearing trees.
 True course and dist. of N. $\frac{1}{2}$ of E. bdy. of sec. 12 are therefore N. 0° 2' E., 40.05 chs.

 From original cor. of secs. 1, 6, 7 and 12, described above,
 North, on random line, on E. bdy. of sec. 1 (S. $\frac{1}{2}$).
 40.03 Fall 2 lks. W. of original $\frac{1}{4}$ sec. cor. of secs. 1 and 6, which is a limestone, 12x8x6 ins. above ground, firmly set, marked "1" on W. face, and witnessed by mound of stone, W. of cor. No bearing trees.
 True course and dist. of S. $\frac{1}{2}$ of E. bdy. of sec. 1, are therefore N. 0° 2' E., 40.03 chs.

Thence,
 North, on random line, on E. bdy. of sec. 1 (N. $\frac{1}{2}$).
 40.18 Fall 2 lks. W. of reestablished cor. of Ts. 18 and 19 N., R. 11 E., which is a limestone, 12x10x8 ins. above ground, firmly set, marked with 6 notches on each of N. S. and W. edges, and witnessed by two bearing trees, properly marked, one each NW, and SW. of cor.
 This cor. was originally set, marked and witnessed for 4 townships, but was changed to its present designation and description under Group 78, Arizona.
 True course and dist. of N. $\frac{1}{2}$ of E. bdy. of sec. 1, T. 18 N., R. 11 E. are therefore, N. 0° 2' E., 40.18 chs.

 From reestablished cor. of Ts. 18 and 19 N., R. 11 E., described above,
 North, on random line, on E. bdy. of sec. 36, T. 19 N., R. 11 E.
 13.25 Intersect reestablished cor. of Ts. 18 and 19 N., R. 12 E., which is an iron post, 3 ins. in diam., firmly set, 12 ins. above ground, properly marked on brass cap, and witnessed by a mound of stone, E. of cor. This cor. was reestablished under Group 78, Arizona.
 Continue line and measurement of E. bdy. of sec. 36.
 40.00 Intersect the original $\frac{1}{4}$ sec. cor. of sec. 36, which is an iron post, 1 in. in diam., 10 ins. above ground, firmly set, properly marked on brass cap, and witnessed by mound of stone, W. of cor.
 No bearing trees. This cor. was established under Group 78, Arizona.
 True course and dist. of the S. $\frac{1}{2}$ of E. bdy. of sec. 36, T. 19 N., R. 11 E., are therefore, North, 40.00 chs., which agrees with the record of Group 78.

BESURVEY:

From cor. of Ts. 17 and 18 N., R. 12 E., described in Book "I,"
 N. 0° 7' E., on true line, on W. bdy. of sec. 31 (part of S. $\frac{1}{2}$ of E. bdy. of sec. 36).
 Over rolling land, draining NE., thru. dense timber and scattering undergrowth.
 4.50 S. edge of ravine, brs. NE. and SW. Descend into same.
 5.80 Bottom of ravine, course NE. Ascend.
 10.70 N. edge of ravine, brs. NE. and SW.
 21.20 Barbed wire fence, brs. N. 0° 10' E. and S. 0° 10' W.

4. Resurvey of W. bdy. of Township 18 North, Range 12 East.

- Resurvey (Continued)
- 28.85 (40.00 chs. N. 0° 7' E., from cor. of Ts. 17 and 18 N., R. 11 E.)
Intersect original $\frac{1}{4}$ sec. cor. of secs. 31 and 36, hereinbefore described. Change this cor. to refer to sec. 36 only, by obliterating marking on original SE. bearing tree, and establish a new bearing tree as follows:
On a cedar, 8 ins. in diam., N. 63° W., 255 lks. dist., mark " $\frac{1}{4}$ S 36 BT."
and leave original SW. bearing tree undisturbed.
 - 40.00 Thence, N. 0° 2' E., on true line, continuing measurement of W. bdy. of sec. 31 (beginning of N. $\frac{1}{2}$ of E. bdy. of sec. 36).
(11.15 chs. from $\frac{1}{4}$ sec. cor. of sec. 36), Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in the ground for reestablished $\frac{1}{4}$ sec. cor. of sec. 31, T. 18 N., R. 12 E., marked on brass cap,
 - S 31
1917
 - 52.00 from which,
A pinyon, 10 ins. in diam., brs. N. 66 $\frac{1}{2}$ ° E., 129 lks. dist., marked " $\frac{1}{4}$ S 31 B-T"
A pinyon, 12 ins. in diam., brs. S. 75 $\frac{1}{2}$ ° E., 294 lks. dist., mark " $\frac{1}{4}$ S 31 BT."
 - 64.25 S. rim of Grapevine Canyon, brs. E and W. Descend 175 ft. Thence measuring by triangulation across canyon, as hereinbefore described.
 - 68.80 (Approximate) Bottom of Grapevine Canyon. Stream of running water, 60 lks. wide, 4 ft. long, course E. Ascend 80 ft. on steep wall of canyon.
(39.95 chs. from $\frac{1}{4}$ sec. cor. of sec. 36.)
Intersect original cor. point of secs. 25, 30, 31 and 36 on canyon wall. This point now becomes true point for cor. of secs. 25 and 36, T. 18 N., R. 11 E., only.
Continue line and measurement of W. bdy. of sec. 36 (beginning of S. $\frac{1}{2}$ of E. bdy. of sec. 25, T. 18 N., R. 11 E.)
Measurement by triangulation hereinbefore described in retracement notes 4: 10-11-12-13.
 - 73.20 (4.40 chs. N. of cor. point) The original witness cor. to original cor. of secs. 25, 30, 31 and 36, hereinbefore described. Change this W.C. to refer to cor. point for cor. of secs. 25 and 36 only, by obliterating marking on original NE. bearing tree, leaving the mound of stone, W. of cor., and original NW. bearing tree as accessories.
Continue measurement of W. bdy. of sec. 31, by chaining.
 - 76.52 N. rim of Grapevine Canyon, brs. E. and W. Thence over rolling land, thru. scattering timber and undergrowth.
 - 78.38 Triangulation point, hereinbefore described, brs. W. 2 lks.
 - 80.00 (11.20 chs. N. 0° 2' E. from true point for cor. of secs. 25 and 36), Set an iron post, 3 ft. long, 3 ins. in diam., 12 ins. in the ground, supported by a mound of stone, for reestablished cor. of secs. 30 and 31, T. 18 N., R. 12 E., marked on brass cap,

T18N
S30
S31
R12E

1917

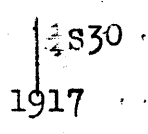
from which,

- A cedar, 10 ins. in diam., brs. N. 60 $\frac{1}{2}$ ° E., 293 lks. dist., mark "T18N R12E S30 BT."
- A cedar, 20 ins. in diam., brs. S. 78 $\frac{1}{2}$ ° E., 223 lks. dist., mark "T18N R12E S31 BT."

Land, rolling, except across canyon.
Soil, rocky, 3rd rate.
Timber, cedar and pinyon, dense S. of canyon, scattering N. of canyon.
Undergrowth, scattering scrub cedar. Fair grass.

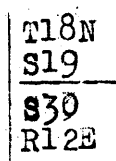
Chains Resurvey (continued)

N.0° 2'E., on true line, on W. bdy. of sec.30, (part of S. 1/2 of E. bdy. of sec.25).
 Over rolling land, thru scattering timber and undergrowth.
 4.00 Bank of draw, brs. NW and SE. Descend 25 ft. to
 5.88 Bottom of draw, course SE. Ascend gradually.
 28.80 (40.00 chs. N.0° 2'E. from point for cor. of secs. 25 and 36) Intersect the original 1/4 sec. cor. of secs. 25 and 30 hereinbefore described. Change this cor. to refer to sec. 25 only by obliterating marking on original SE. bearing tree, digging pits 18x18x12 ins., N. and S. of cor. 3 ft. dist., and leaving original SW. bearing tree undisturbed.
 Thence,
 N.0° 4'E., on true line, continuing measurement of W. bdy. of sec. 30 (beginning of N. 1/2 of E. bdy. of sec. 25).
 40.00 (11.20 chs. from 1/4 sec. cor. of sec. 25), Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in the ground, for reestablished 1/4 sec. cor. of sec. 30, marked on brass cap.



from which,

A cedar, 10 ins. in diam., brs. N. 30 1/4° E., 275 lks.
 dist., mark "1/4 S 30 BT."
 A cedar, 8 ins. in diam., brs. S. 58 3/4° E., 126 lks.
 dist., mark "1/4 S 30 BT."
 68.89 (40.09 chs. N.0° 4'E. from 1/4 sec. cor. of sec. 25), Intersect original cor. of secs. 19, 24, 25 and 30, hereinbefore described. Change this cor. to refer to secs. 24 and 25, T.18 N., R.11 E. only, by obliterating marking on original NE. and SE. bearing trees, leaving original NW. and SW. bearing trees undisturbed.
 Thence,
 N.0° 2'E., on true line, continuing measurement of W. bdy. of sec. 30 (beginning of S. 1/2 of E. bdy. of sec. 24).
 80.00 (11.11 chs. from cor. of secs. 24 and 25), Set an iron post, 3 ft. long, 3 ins. in diam., 24 ins. in the ground for reestablished cor. of secs. 19 and 30, T.18 N., R.12 E., marked on brass cap,



from which,

A cedar, 5 ins. in diam., brs. N. 4 1/2° E., 146 lks.
 dist., mark "T18N R12E S19 BT."
 A cedar, 6 ins. in diam., brs. S. 52° E., 169 lks.
 dist., mark "T18N R12E S30 BT."

Land, rolling.
 Soil, rocky, 3rd rate.
 Timber, scattering cedar and pinyon.
 Undergrowth, scattering scrub cedar.
 Fair grass.

N.0° 2'E., on true line, on W. bdy. of sec. 19 (part of S. 1/2 of E. bdy. of sec. 24.)
 Over rolling land, thru scattering timber and undergrowth.
 23.19 Draw, course E.
 28.90 (40.01 chs. N.0° 2'E. from cor. of secs. 24 and 25), Intersect original 1/4 sec. cor. of secs. 19 and 24, hereinbefore described. Change this cor. to refer to sec. 24 only, by obliterating marking on original NE. bearing tree, raising a mound of stone, 2 ft. base, 1 1/2 ft. high, W. of cor. leaving original NW. bearing tree undisturbed.

6. Resurvey of W. bdy. of Township 18 North, Range 12 East.

Chains. (Resurvey Continued)

40.00 Thence, N. 0° 9' E., on true line, continuing measurement of W. bdy. of sec. 19 (beginning of N. $\frac{1}{2}$ of E. bdy. of sec. 24). (11.10 chs. from $\frac{1}{4}$ sec. cor. of sec. 24). Set an iron post, 3-ft. long, 1 in. in diam., 14 ins. in the ground, supported by a mound of stone, for reestablished $\frac{1}{4}$ sec. cor. of sec. 19, T. 18 N., R. 12 E., marked on brass cap,

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1917

from which,

A cedar, 4 ins. in diam., brs. N. 71° E., 252 lks. dist., mark " $\frac{1}{4}$ S 19 BT.", and

A cedar, 6 ins. in diam., brs. S. 75° E., 264 lks. dist., mark " $\frac{1}{4}$ S 19 BT."

68.96 (40.06 chs. N. 0° 9' E., from $\frac{1}{4}$ sec. cor. of sec. 24). Intersect original cor. of secs. 13, 18, 19 and 24, hereinbefore described. Change this cor. to refer to secs. 13 and 24, T. 18 N., R. 11 E., only, by obliterating marking on original SE. bearing tree, leaving old mound of stone, W. of cor., and original NW. bearing tree as accessories.

Thence,

80.00 North, on true line, continuing measurement of W. bdy. of sec. 19 (beginning of S. $\frac{1}{2}$ of E. bdy. of sec. 13). (11.04 chs. from cor. of secs. 13 and 24). Set an iron post, 3 ft. long, 3 ins. in diam., 18 ins. in the ground, supported by a mound of stone, for reestablished cor. of secs. 18 and 19, T. 18 N., R. 12 E., marked on brass cap,

| T18N
| S18
| S19
| R12E
1917

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

Land, rolling.

Soil, sandy and gravelly, 3rd rate.

Timber, scattering cedar.

Undergrowth, scattering sage brush.

Fair grass.

North, on true line, on W. bdy. of sec. 18 (part of S. half of E. bdy. of sec. 13).

29.03 Over rolling land, thru scattering timber and undergrowth. (40.07 chs. N. from cor. of secs. 13 and 24). Intersect original $\frac{1}{4}$ sec. cor. of secs. 13 and 18, hereinbefore described. Change this cor. to refer to sec. 13, T. 18 N., R. 11 E. only, by obliterating marking on original NE. bearing tree, raising a mound of stone, 2 ft. base, 1 $\frac{1}{2}$ ft. high, W. of cor., leaving original SW. bearing tree undisturbed.

Thence,

40.00 N. 0° 2' E., on true line, continuing measurement of W. bdy. of sec. 18. (beginning of N. $\frac{1}{2}$ of E. bdy. of sec. 13). (10.97 chs. from $\frac{1}{4}$ sec. cor. of sec. 13). Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in the ground, for reestablished $\frac{1}{4}$ sec. cor. of sec. 18, T. 18 N., R. 12 E., marked on brass cap,

| S18
1917

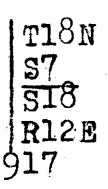
and raise a mound of stone, 2 ft. base, 1 $\frac{1}{2}$ ft. high, E. of cor.

Resurvey of W bdy of Township 18 North Range 12 East.

Chains. (Resurvey continued)

57.90 Draw, course NE.
69.10 (40.07 chs. N.0°2'E., from 1/4 sec.cor. of sec.13) Intersect original cor. of secs.7, 12,13 and 18, hereinbefore described. Change this cor.to refer to secs.12 and 13, T.18 N.,R.11 E. only, by obliterating marking on original NE. and SW. bearing trees,raising a mound of stone, 2 ft.base,,1 1/2 ft.high,W.of cor., and leaving original NW. and SW. bearing trees undisturbed.

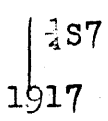
Thence,
N.0°1'E., on true line, continuing measurement of W. bdy. of sec.18,(beginning of S 1/2 of E. bdy.of sec.12).
80.00 (10.90 chs. from cor.of secs: 12 and 13), Set an iron post 3 ft.long, 3 ins. in diam., 24 ins. in the ground for reestablished cor.of secs. 7 and 18, T.18 N.,R.12 E., marked on brass cap,



and raise a mound of stone, 2 ft.base, 1 1/2 ft. high,E. of cor.
Land, rolling.
Soil,sandy and gravelly,3rd rate.
Timber,scattering cedar.
Undergrowth, scattering sage brush.
Fair grass.

N.0° 1'E., on true line, on W. bdy. of sec.7 (part of S. 1/2 of E. bdy. of sec.12).
Over rolling land, thru,scattering timber, and undergrowth.
29.13 (40.03 chs. N.0° 1'E., from cor.of secs.12 and 13)Intersect original 1/4 sec.cor. of secs.7 and 12, hereinbefore described. Change this cor. to refer to sec.12,T.18 N.,R.11 E. only, by obliterating marking on original SE. bearing tree, raising a mound of stone, 2 ft.base,1 1/2 ft.high,W.of cor.,and leaving original NW. bearing tree undisturbed.

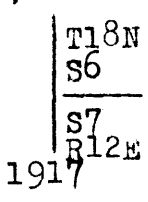
Thence,
N.0° 2'E., on true line, continuing measurement of W. bdy. of sec.7 (beginning of N.1/2 of E. bdy. of sec.12).
40.00 (10.87 chs. from 1/4 sec.cor. of sec.12) Set an iron post, 3 ft.long, 1 in. in diam., 20 ins. in the ground, supported by a mound of stone, for reestablished 1/4 sec.cor., of sec.7, T.18 N.,R.12 E., marked on brass cap,



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

63.90 Draw, course NE.
69.18 (40.05 chs.N.0°2'E., from 1/4 sec.cor.of sec.12) Intersect original cor.of secs. 1,6,7 and12, hereinbefore described. This cor.now becomes a cor.of secs.1 and 12, T.18 N.,R.11 E. only. No change in marking or accessory is required.

Continue line and measurement of W* bdy. of sec.7 (beginning of S.half of E. bdy. of sec.1).
80.00 (10.82 chs.from cor.of secs. 1 and 12), set an iron post, 3 ft.long, 3 ins. in diam., 24 ins. in the ground, for reestablished cor.of secs. 6 and 7, T.18 N.,R.12 E., marked on brass cap,



8. Resurvey of W. bdy. of Township 18 North, Range 12 East.

Chains.	(Resurvey continued) and raise a mound of stone, 2 ft. base, 1½ ft. high, E. of cor. Land, rolling. Soil, sandy and gravelly, 3rd rate. Timber, scattering cedar. Undergrowth, scattering sage brush. Poor grass.

0.10 29.21	N. 0° 2' E., on true line, on W. bdy. of sec. 6 (part of S. ½ of E. bdy. of sec. 1, T. 18 N., R. 11 E.) Over rolling land, thru scattering timber and undergrowth. Dim road, brs. NE. and SW. (40.03 chs. N. 0° 2' E., from cor. of secs. 1 and 12) Intersect original ¼ sec. cor. of secs. 1 and 6, hereinbefore described. This cor. now becomes ¼ sec. cor. of sec. 1, T. 18 N., R. 11 E. only. No change in marking or accessory required. Continue line and measurement of W. bdy. of sec. 6, T. 18 N., R. 12 E. (beginning of N. ½ of E. bdy. of sec. 1, T. 18 N., R. 11 E.)
40.00	(10.79 chs. from ¼ sec. cor. of sec. 1), Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in the ground, for reestablished ¼ sec. cor. of sec. 6, T. 18 N., R. 12 E., marked on brass cap, 186 1917
69.00 69.39	and raise a mound of stone, 2 ft. base, 1½ ft. high, E. of cor. Draw, course NW.; ascend. (40.18 chs. N. 0° 2' E., from ¼ sec. cor. of sec. 1) Intersect reestablished cor. of Ts. 18 and 19 N., R. 11 E., hereinbefore described. Thence, North, on true line, continuing measurement of W. bdy. of sec. 6, T. 18 N., R. 12 E. (beginning of S. ½ of E. bdy. of sec. 36, T. 19 N., R. 11 E.)
72.60	Spur, slopes NW. Descend 75 ft.
80.45	Bottom of canyon. Stream of running water, 10 lks. wide, 12 ins. deep, course NE. Ascend.
82.74	(13.35 chs. N. from cor. of Ts. 18 and 19 N. R. 11 E.) Intersect the reestablished cor. of Ts. 18 and 19 N., R. 12 E., hereinbefore described. Land, rolling, except at N. end of line, where broken by canyon. Soil, sandy, gravelly and rolling, 2nd and 3rd rate. Timber, scattering cedar. Undergrowth, scattering sage brush. Fair grass.

Resurvey of North bdy. of Township 18 North Range 12 East 9

Chains.

Retracement for Resurvey:

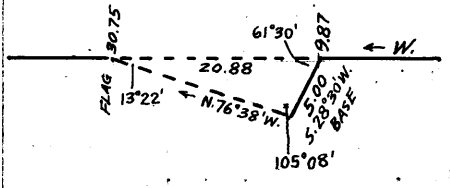
From reestablished cor. of T.19 N., R.12 E., and frac. T.19 N., R.12 1/2 E., on 3rd Guide Mer. E., described in Book "G," West, on random line, on S. bdy. of sec. 36, T.19 N., R.12 E.

3.02 The reestablished closing cor. of T.18 N., R.12 E., and frac. T.18 N. R.12 1/2 E. on 3rd. Guide Mer. E., described in Book "G."

40.26 Continue line and measurement of S. bdy. of sec. 36. Fall 1 lk. N. of original 1/4 sec. cor. of secs. 1 and 36, which is a limestone, 38x20x8 ins. firmly set in a mound of stone, marked "1/4" on N. face, and witnessed by mound of stone, N. of cor.

No bearing trees.
True course and dist. of E. 1/2 of S. bdy. of sec. 36, are therefore S. 89° 59' W., 40.26 chs.

9.87 Thence, West, on random line, on S. bdy. of sec. 36 (W. 1/2). E. rim of Canyon Diablo brs. NE. and SW. Chain measurement across canyon being impracticable, triangulate as follows:



Measure a base S. 28° 30' W., 5.00 chs. Set flag on random line, on W. rim of canyon.

From SW. end of base, flag brs. N. 76° 38' W.

Included angles are 105° 8', 13° 22' and 61° 30', the sum of which is 180° 00'.

Triangulated dist. on random line is obtained by sine 105° 8' x base or $\frac{.96532 \times 5.00}{.23118} = 20.88$ chs., which added to 9.87 chs. =

30.75 Flag point on W. rim of canyon. Continue measurement by chaining.

39.85 Fall 1 lk. N. of original cor. of secs. 1, 2, 35 and 36, which is a limestone 12x12x6 ins. above ground, firmly set, marked with 1 notch on E. edge, and 5 notches on W. edge, and witnessed by mound of stone, W. of cor., and 2 bearing trees properly marked, one each NE. and SW. of cor. True course and dist. of W. 1/2 of S. bdy. of sec. 36 are therefore, S. 89° 59' W., 39.85 chs.

The south boundaries of secs. 35, 34, 33, 32 and 31, retraced as described below, were originally surveyed March 9, 1917, under Group 78, Arizona, and all the cors. were marked and witnessed as common to secs. in Ts. both north and south of line.

From original cor. of secs. 1, 2, 35 and 36, West, on random line, on S. bdy. of sec. 35 (E. 1/2).

39.90 Fall 4 lks. N. of original 1/4 sec. cor. of secs. 2 and 35, a 1 in. iron post, 10 ins. above ground, firmly set, properly marked on brass cap, and witnessed by mound of stone, N. of cor. No bearing trees. True course and dist. of E. 1/2 of S. bdy. of sec. 35 are therefore S. 89° 57' W., 39.90 chs.

40.07 Thence, West, on random line, on S. bdy. of sec. 35 (W. 1/2). Fall 2 lks. S. of original cor. of secs. 2, 3, 34 and 35, a 3 in. iron post, 3 ft. above ground, set in mound of stone, properly marked on brass cap, and witnessed by a mound of stone, W. of cor. No bearing trees. True course and dist. of W. 1/2 of S. bdy. of sec. 35 are therefore N. 89° 58' W., 40.07 chs.

9. 10 Resurvey of N. bdy. of Township 18 North, Range 12 East.

Chains. (Retracement for Resurvey, continued.)

- 39.93 West, on random line, on S. bdy. of sec. 34 (E. $\frac{1}{2}$)
 Fall 1 lk. N. of original $\frac{1}{4}$ sec. cor. of secs. 3 and 34, a 1 in. iron post, 10 ins. above ground, firmly set, properly marked on brass cap, and witnessed by a mound of stone, N. of cor. No bearing trees.
 True course and dist. of E. $\frac{1}{2}$ of S. bdy. of sec. 34 are therefore S. 89° 59' W., 39.93 chs.
 Thence,
- 39.80 West, on random line, on S. bdy. of sec. 34 (W. $\frac{1}{2}$).
 Fall 1 lk. N. of original cor. of secs. 3, 4, 33 and 34, a 3 in. iron post, 12 ins. above ground, firmly set, properly marked on brass cap, and witnessed by mound of stone, W. of cor. No bearing trees.
 True course and dist. of W. $\frac{1}{2}$ of S. bdy. of sec. 34 are therefore S. 89° 59' W., 39.80 chs.
-
- 40.22 West, on random line, on S. bdy. of sec. 33 (E. $\frac{1}{2}$)
 Fall 2 lks. N. of original $\frac{1}{4}$ sec. cor. of secs. 4 and 33, a 1 in. iron post, 10 ins. above ground, firmly set, properly marked on brass cap, and witnessed by mound of stone, N. of cor. No bearing trees.
 True course and dist. of E. $\frac{1}{2}$ of S. bdy. of sec. 33 are therefore S. 89° 58' W., 40.22 chs.
 Thence,
- 39.94 West, on random line, on S. bdy. of sec. 33 (W. $\frac{1}{2}$).
 Fall 2 lks. S. of original cor. of secs. 4, 5, 32 and 33, a 3 in. iron post, 12 ins. above ground, firmly set, properly marked on brass cap, and witnessed by a mound of stone, W. of cor. No bearing trees.
 True course and dist. of W. $\frac{1}{2}$ of S. bdy. of sec. 33 are therefore N. 89° 58' W., 39.94 chs.
-
- 39.65 West, on random line, on S. bdy. of sec. 32 (E. $\frac{1}{2}$).
 Fall 2 lks. N. of original $\frac{1}{4}$ sec. cor. of secs. 5 and 32, a 1 in. iron post, 10 ins. above ground, firmly set, properly marked on brass cap, and witnessed by mound of stone N. of cor. No bearing trees.
 True course and dist. of E. half of S. bdy. of sec. 32, are therefore S. 89° 58' W., 39.65 chs.
 Thence,
- 40.18 West, on random line, on S. bdy. of sec. 32 (W. $\frac{1}{2}$).
 Intersect original cor. of secs. 5, 6, 31 and 32, a 3 in. iron post, 12 ins. above ground, firmly set, properly marked on brass cap, and witnessed by a mound of stone, W. of cor. No bearing trees.
 True course and dist. of W. $\frac{1}{2}$ of S. bdy. of sec. 32 are therefore, West, 40.18 chs.
-
- 40.02 West, on random line, on S. bdy. of sec. 31 (E. $\frac{1}{2}$).
 Fall 5 lks. N. of original $\frac{1}{4}$ sec. cor. of secs. 6 and 31, a 1 inch iron post, 10 ins. above ground, firmly set, properly marked on brass cap, and witnessed by mound of stone, N. of cor. No bearing trees.
 True course and dist. of E. $\frac{1}{2}$ of S. bdy. of sec. 31 are therefore S. 89° 56' W., 40.02 chs.
 Thence,
- 39.73 West, on random line, on S. bdy. of sec. 31 (W. $\frac{1}{2}$).
 Fall 5 lks. N. of reestablished cor. of Ts. 18 and 19 N., R. 12 E., hereinbefore described.
 True course and dist. of W. $\frac{1}{2}$ of S. bdy. of sec. 31 are therefore S. 89° 56' W., 39.73 chs.

Chains.

RESURVEY:

From reestablished closing cor. of T.18 N., R.12 E., and
fracl. T.18 N., R.12 1/2 E., and 3rd Guide Mer. E., described
in Book "G,"

- 6.30 S.89°59'W., on true line, on N. bdy. of sec.1, T.18 N., R.12 E. (part of E. 1/2 of S. bdy. of sec.36, T.19 N., R.12 E.)
- 37.24 Over rolling land, thru scattering timber and undergrowth. Draw, course NE. (40.26 chs. S.89°59'W. from cor. of T.19 N., R.12 E., and fracl T.19 N., R.12 1/2 E.,) Intersect original 1/4 sec. cor. of secs. 1 and 36, hereinbefore described. This cor. now becomes 1/4 sec. cor. of sec.36 only. No change in marking or accessory is required.
- 40.00 Continue line and measurement of N. bdy. of sec.1 (beginning of W. 1/2 of S. bdy. of sec.36). (2.76 chs. from 1/4 sec. cor. of sec.36), Set an iron post, 3 ft. long, 1 in. in diam., 18 ins. in the ground, supported by a mound of stone, for reestablished 1/4 sec. cor. of sec.1, T.18 N., R.12 E., marked on brass cap, and raise a mound of stone, 2 ft. base, 1 1/2 ft. high, S. of cor.
- 47.11 E. rim of Canyon Diablo, brs. NE. and SW. Measurement across canyon by triangulation hereinbefore described. Desc. 150 ft.
- 56.83 (Approximate) Bottom of Canyon Diablo, course NE. Ascend 150 ft.
- 67.99 West rim of canyon, brs. NE. and SW. Continue measurement by chaining.
- 77.09 (39.85 chs. S.89°59'W., from 1/4 sec. cor. of sec.36), Intersect original cor. of secs. 1, 2, 35 and 36, hereinbefore described. Change this cor. to refer to secs. 35 and 36, T.19 N., R.12 E., only by obliterating marking on original SW. bearing tree, destroying original mound of stone W. of cor., raising a mound of stone, 2 ft. base, 1 1/2 ft. high, N. of cor., and leaving original NE. bearing tree undisturbed.
- 80.00 Thence, S.89°57'W., on true line, continuing measurement of N. bdy. of sec.1 (beginning of E. 1/2 of S. bdy. of sec.35.) (2.91 chs. from cor. of secs. 35 and 36), Set an iron post 3 ft. long, 3 ins. in diam., 20 ins. in the ground, supported by a mound of stone for reestablished cor. of secs. 1 and 2, T.18 N., R.12 E., marked on brass cap,



from which,

A cedar, 8 ins. in diam., brs. S.49 1/2° E., 110 lks. dist., mark "T18N R12E S1BT."

No other trees being in prescribed limits, raise a mound of stone, 2 ft. base, 1 1/2 ft. high, S. of cor.

Land, rolling.

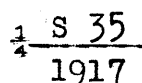
Soil, sandy, gravelly and rocky, 2nd and 3rd rate.

Timber, scattering cedar.

Undergrowth, scattering scrub cedar and sage brush.

Fair grass

- 36.99 S.89°57'W., on true line, on N. bdy. of sec.2, T.18 N., R.12 E. (part of E. 1/2 of S. bdy. of sec.35, T.19 N., R.12 E.). Over rolling land, thru scattering timber and undergrowth. (39.90 chs. S.89°57'W., from cor. of secs. 35 and 36), Intersect original 1/4 sec. cor. of secs. 2 and 35, hereinbefore described. Change this cor. to refer to sec.35, T.19 N., R.12 E. only, by changing marking on brass cap, to read



12. Resurvey of North bdy. of Township 18 North, Range 12 East.

Chains. (Resurvey continued)

40.00 leaving original mound of stone, N. of cor. undisturbed. Thence, N. 89° 58' W., on true line, continuing measurement of N. bdy. of sec. 2 (beginning of W. half of S. bdy. of sec. 35). (3.01 chs. from $\frac{1}{4}$ sec. cor. of sec. 35), Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in the ground, for reestablished $\frac{1}{4}$ sec. cor. of sec. 2, T. 18 N., R. 12 E., marked on brass cap,

S 2
1917

65.00 and raise a mound of stone, 2 ft. base, 1½ ft. high, S. of cor.
77.06 Draw, course SE. (40.07 chs. N. 89° 58' W., from $\frac{1}{4}$ sec. cor. of sec. 35), Intersect original cor. of secs. 2, 3, 34 and 35, hereinbefore described. Change this cor. to refer to secs. 34 and 35, T. 19 N., R. 12 E. only by changing marking on brass cap to read,

T19N | R12E
S34 | S35

T18N
1917

80.00 Destroy original mound of stone W. of cor., and raise a mound of stone, 2 ft. base, 1½ ft. high, N. of cor. Thence, S. 89° 59' W., on true line, continuing measurement of N. bdy. of sec. 2 (beginning of E. half of S. bdy. of sec. 34). (2.94 chs. from cor. of secs. 34 and 35) Set an iron post, 3 ft. long, ¾ ins. in diam., 12 ins. in the ground, supported by a mound of stone, for reestablished cor. of secs. 2 and 3, T. 18 N., R. 12 E., marked on brass cap,

S 3 | S 2
T18N | R12E
1917

and raise a mound of stone, 2 ft. base, 1½ ft. high, S. of corner.
Land, rolling.
Soil, sandy and gravelly, 2nd and 3rd rate.
Timber, scattering cedar.
Undergrowth, scattering sage brush.
Fair grass.

36.99 S. 89° 59' W., on true line, on N. bdy. of sec. 3, T. 18 N., R. 12 E. (part of E. ½ of S. bdy. of sec. 34, T. 19 N., R. 12 E.). Over rolling land, thru scattering timber and undergrowth. (39.93 chs. S. 89° 59' W., from cor. of secs. 34 and 35) Intersect original $\frac{1}{4}$ sec. cor. of secs. 3 and 34, hereinbefore described. Change this cor. to refer to sec. 34, T. 19 N., R. 12 E. only, by changing marking on brass cap, to read,

S 34
1917

40.00 leaving original mound of stone, N. of cor. undisturbed. Continue line and measurement of N. bdy. of sec. 3 (beginning of W. ½ of S. bdy. of sec. 34). (3.01 chs. from $\frac{1}{4}$ sec. cor. of sec. 35), Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in the ground, for reestablished $\frac{1}{4}$ sec. cor. of sec. 3, T. 18 N., R. 12 E., marked on brass cap,

Resurvey of North bdy. of Township 18 North, Range 12 East. 13

Chains. (Resurvey, continued)

1/4 S 3
1917

72.30 and dig pits, 18x18x12 ins., E. and W. of post, 3 ft. dist.
76.79 Draw, course NE.
(39.80 chs. S. 89° 59' W. from 1/4 sec. cor. of sec. 34), Intersect original cor. of secs. 3, 4, 33 and 34, hereinbefore described. Change this cor. to refer to secs. 33 and 34, T. 19 N., R. 12 E. only, by changing marking on brass cap, to read

T19N | R12E
S33 | S34

T18N
1917

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

80.00 Thence, S. 89° 58' W., on true line, continuing measurement of N. bdy. of sec. 3 (beginning of E. 1/2 of S. bdy. of sec. 33).
(3.21 chs. from cor. of secs. 33 and 34), Set an iron post 3 ins. in diam., on surface rock, supported by a mound of stone, for reestablished cor. of secs. 3 and 4, T. 18 N., R. 12 E., marked on brass cap,

S 4 | S 3
T18N | R12E
1917

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

Land rolling.
Soil, sandy, 2nd rate.
Timber, very scattering sage brush.
Good grass.

32.40 S. 89° 58' W., on true line, on N. bdy. of sec. 4, T. 18 N., R. 12 E. (part of E. 1/2 of S. bdy. of sec. 34, T. 19 N., R. 12 E.)
37.01 Over rolling land, thru scattering undergrowth.
Draw, course NE.; ascend gradually.
(40.22 chs. S. 89° 58' W. from cor. of secs. 33 and 34), Intersect original 1/4 sec. cor. of secs. 4 and 33, hereinbefore described. Change this cor. to refer to sec. 33, T. 19 N., R. 12 E. only, by changing marking on brass cap to read,

1/4 S 33
1917

leaving original mound of stone, N. of cor. undisturbed.
Thence,

40.00 N. 89° 58' W., on true line, continuing measurement of N. bdy. of sec. 4 (beginning of W. half of S. bdy. of sec. 33)
(2.99 chs. from 1/4 sec. cor. of sec. 33), Set an iron post, 3 ft. long, 1 in. in diam., 18 ins. in the ground, supported by a mound of stone, for reestablished 1/4 sec. cor. of sec. 4, T. 18 N., R. 12 E., marked on brass cap,

1/4 S 4
1917

76.95 and raise a mound of stone, 2 ft. base, 1 1/2 ft. high, S. of cor.
(39.94 chs. N. 89° 58' W., from 1/4 sec. cor. of sec. 33), Intersect the original cor. of secs. 4, 5, 32 and 33, hereinbefore described. Change this cor. to refer to secs. 32 and 33, T. 19 N., R. 12 E. only, by changing marking on brass cap, to read

14 Resurvey North bdy. of Township 18 North, Range 12 East.

Chains.

T19N | R12E
S32 | S33

T18N
1917

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

Thence,

S. 89° 58' W., on true line, continuing measurement of N. bdy. of sec. 4 (beginning of E. 1/2 of S. bdy. of sec. 32).

80.00 (3.05 chs. from cor. of secs. 32 and 33), Set an iron post, 3 ft. long, 3 ins. in diam., 24 ins. in the ground, for reestablished cor. of secs. 4 and 5, T. 18 N., R. 12 E., marked on brass cap,

S 5 | S 4
T18N | R12E
1917

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

Land, rolling.

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

Timber, none.

Undergrowth, scattering sage brush.

Fair grass.

S. 89° 58' W., on true line, on N. bdy. of sec. 5, T. 18 N., R. 12 E. (part of E. 1/2 of S. bdy. of sec. 32, T. 19 N., R. 12 E.)

Over rolling land, thru scattering undergrowth.

10.30 Dim road, brs. SE and NW. (Old Mormon road).

36.60 (39.65 chs. S. 89° 58' W. from cor. of secs. 32 and 33), intersect original 1/4 sec. cor. of secs. 5 and 32, hereinbefore described. Change this cor. to refer to sec. 32, T. 19 N., R. 12 E., only, by changing marking on brass cap, to read,

1/4 S 32
1917

leaving original mound of stone, N. of cor. undisturbed.

Thence,

West, on true line, continuing measurement of N. bdy. of sec. 5 (beginning of W. half of S. bdy. of sec. 32.)

40.00 (3.40 chs. from 1/4 sec. cor. of sec. 32), Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in the ground, for reestablished 1/4 sec. cor. of sec. 5, T. 18 N., R. 12 E., marked on brass cap,

1/4 S 5
1917

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

76.78 (40.18 chs. W. from 1/4 sec. cor. of sec. 32), Intersect original cor. of secs. 5, 6, 31 and 32, hereinbefore described. Change this cor. to refer to secs. 31 and 32, T. 19 N., R. 12 E. only, by changing marking on brass cap, to read,

T19N | R12E
S31 | S32

T18N
1917

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

Thence,

Chains.

77.10 S. 89°56' W., on true line, continuing measurement of N. bdy.
 80.00 of sec. 5 (beginning of E. 1/2 of S. bdy. of sec. 31).
 Road, brs. NE. and SW.
 (3.22 chs. from cor. of secs. 31 and 32), Set an iron post, 3
 ft. long, 3 ins. in diam., 18 ins. in the ground, support-
 ed by a mound of stone, for reestablished cor. of secs.
 5 and 6, T. 18 N., R. 12 E., marked on brass cap,

S 6 | S 5
 T18N | R12E
 1917

and raise a mound of stone, 2 ft. base, 1 1/2 ft. high, S. of
 cor.
 Land, rolling.
 Soil, gravelly and rocky, 3rd rate.
 Timber, none.
 Undergrowth, scattering sage brush.
 Fair grass.

36.80 S. 89°56' W., on true line, on N. bdy. of sec. 6, T. 18 N., R. 12
 E. (part of E. 1/2 of S. bdy. of sec. 31).
 Over rolling land, thru scattering undergrowth.
 (40.02 chs. S. 89°56' W. from cor. of secs. 31 and 32), Inter-
 sect original 1/4 sec. cor. of secs. 6 and 31, hereinbefore
 described. Change this cor. to refer to sec. 31, T. 19 N.,
 R. 12 E. only, by changing marking on brass cap, to read,

1/4 S 31
 1917

40.00 leaving original mound of stone, N. of cor. undisturbed.
 Continue line and measurement of N. bdy. of sec. 6 (beginning
 of W. 1/2 of S. bdy. of sec. 31).
 (3.29 chs. from 1/4 sec. cor. of sec. 31), set an iron post, 3
 ft. long, 1 in. in diam., 26 ins. in the ground, for re-
 established 1/4 sec. cor. of sec. 6, T. 18 N., R. 12 E., marked
 on brass cap,

1/4 S 6
 1917

55.30 and raise a mound of stone, 2 ft. base, 1 1/2 ft. high, S. of
 cor. Descend 55 ft. on W. slope.
 Wash, 20 lks. wide, 2 ft. deep, course N. Ascend 72 ft. on E.
 slope.
 63.00 Top of E. slope, brs. N. and S. Thence over nearly level
 surface.
 65.80 E. rim of canyon, brs. N. and S. Descend 75 ft.
 69.30 Bottom of canyon, course N. Ascend 60 ft. on SE. slope, to
 76.53 (39.73 chs. S. 89°56' W., from 1/4 sec. cor. of sec. 31), Inter-
 sect the reestablished cor. of Ts. 18 and 19 N., R. 12 E.
 Land, rolling, except at canyon.
 Soil, rocky, 3rd rate.
 Timber, none.
 Undergrowth, scattering sage brush.
 Fair grass.

12
 8
 21

16. Retracement of part of Subdivision lines of T.18 N., R.12 E.

Chains.

From original cor. of secs. 2, 3, 34 and 35, described in Book "I," N. 0° 1' W., (record course) on random line, bet. secs. 34 and 35 (S. 1/2).

Over rolling land, draining E., thru scattering timber and undergrowth.

13.15 S. rim of small canyon, brs. NW. and SE. heading a short distance west of line, and joining Canyon Diablo, about 15 chs. E. of line. As measurement by chaining N. of this point is impracticable owing to steep canyon walls, obtain measurement by triangulation as follows:

Measure a base N. 65° 27' W., 7.50 chs. from this station,

Set flag on random line, at a point on E. or right rim of Canyon Diablo.

From NW. end of base, flag brs. N. 23° 23' E.

Included angles are 91° 10', 23° 24' and 65° 26', the sum of which is 180° 00'.

Triangulation measurement on random line is therefore obtained by $\frac{\sin 91^{\circ}10' \times \text{base}}{\sin 23^{\circ}24'}$ or $\frac{.99979 \times 7.50}{.39715}$

18.88 chs., which added to 13.15 chs. gives dist. of flag from cor. of secs. 2, 3, 34 and 35, as 32.03 chs.

The approximate position of the items of topography in the triangulated dist. are as follows:

16.50 (Approximate) Bottom of small canyon, course E., joining Canyon Diablo at about 15 chs. E. of line., Ascend 100 ft.

20.00 (Approximate) N. rim of above described canyon brs. E. and W., forming part of W. or left rim of Canyon Diablo.

24.00 (Approximate) W. or left rim of Canyon Diablo, brs. E. and W. Descend 200 ft.

28.00 (Approximate) Bottom of Canyon Diablo, course W. At a short distance W. of line, canyon turns N.; thence E., recrossing the line beyond the 1/2 sec. cor., as hereinafter described. Ascend 200 ft.

32.03 Flag point of triangulation, hereinbefore described, on E. or right rim of Canyon Diablo, bearing NW. and SE. Continue measurement by chaining, over rolling land.

40.06 Fall 1 lk. E. of original 1/2 sec. cor. of secs. 34 and 35, which is a limestone, 9x6x5 ins. above ground, firmly set, marked "2" on W. face, and witnessed by a mound of stone, W. of cor. No bearing trees. This cor. is on E. or right rim of Canyon Diablo, bearing E. and W. True course and dist. of S. 1/2 of line bet. secs. 34 and 35, are therefore N. 0° 2' W., 40.06 chs.

Thence,

N. 0° 1' W., on a random line, bet. secs. 34 and 35 (N. 1/2).

Across Canyon Diablo, impracticable to chain measurement; therefore, triangulate as follows:

Measure a base, N. 89° 59' E., 5.00 chs. from 1/2 sec. cor.

Set a flag on random line, on west or left rim of canyon.

From E. end of base, flag brs. N. 25° 01' W.

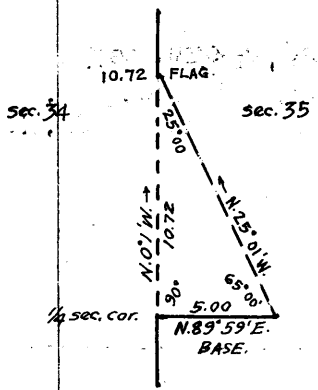
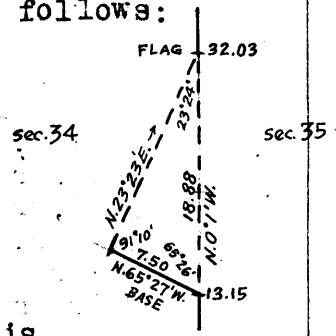
Included angles are 65° 00', 90° 00' and 25° 00', the sum of which is 180° 00'.

Dist. on random line triangulated is therefore obtained by $\text{tang. } 65^{\circ}00' \times \text{base}$ or $2.14451 \times 5.00 = 10.72$ chs.

5.00 (Approximate) Bottom of Canyon Diablo, course E. Ascend about 200 ft.

10.72 Flag point of triangulation, hereinbefore described, on W. or left rim of Canyon Diablo, bearing E. and W. at this point.

Continue measurement by chaining over rolling land.



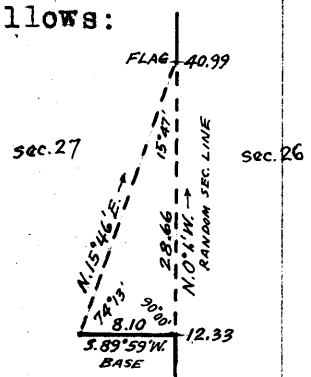
Retracement of part of Subdivision lines of T.17 N., R.12 E. 17.

Chains.

- 26.91 S. rim of small canyon, brs. NE. and SW. Descend 75 ft.
 - 29.36 Bottom of canyon, course NE. Ascend 50 ft.
 - 37.41 N. rim of above described canyon, brs. E. and SW.
 - 40.06 Intersect the original cor. of secs. 26, 27, 34 and 35, which is a limestone 10x8x4 ins. above ground, firmly set, marked with 1 notch on S. edge, and 2 notches on E. edge, and witnessed by a mound of stone, W. of cor. No bearing trees.
- True course and dist. of N. $\frac{1}{2}$ of line bet. secs. 34 and 35, are therefore N. 0° 1' W., 40.06 chs.
- Land, rolling, except at canyon crossings.
Soil, rocky, 3rd and 4th rate.
Timber, scattering cedar.
Undergrowth, scattering sage brush.

Resurvey of part of Subdivision lines of T.18 N., R.12 E.

- From original cor. of secs. 26, 27, 34 and 35, N. 0° 1' W., on random line, bet. secs. 26 and 27 (S. $\frac{1}{2}$).
- 1.00 Over rolling land, thru scattering timber and undergrowth. South or left rim of small canyon, brs. E. and NW. Descend into canyon.
 - 3.00 Bottom of canyon, course NW. from E. Heads about 5 chs. E. of line. Ascend out of canyon.
 - 4.90 North or right rim of canyon, brs. NW. and E.
 - 6.20 Descend N. slope.
 - 14.80 Cedar fence, brs. NE. and SW.
 - 39.25 Fall 15 lks. E. of original $\frac{1}{4}$ sec. cor. of secs. 26 and 27, which is a limestone, 8x6x5 ins. above ground, firmly set, marked "1" on W. face, and witnessed by two pits, one each N. and S. of cor., and a mound of earth W. of cor. No bearing trees.
- Owing to the shortage in the measurement, change this $\frac{1}{4}$ sec. cor. to refer to sec. 26 only, by destroying mound of earth W. of cor., and digging out the original pits to 18x18x12 ins.
- True course and dist. of S. $\frac{1}{2}$ of W. bdy. of sec. 26 are therefore, N. 0° 14' W., 39.25 chs.
- Thence,
N. 0° 1' W., on a random line, on N. $\frac{1}{2}$ of W. bdy. of sec. 26. Over rolling land; thru scattering timber and undergrowth. Descend gradually.
- 12.33 West, or left rim of Canyon Diablo, brs. NW. and SE. The line N. of this point passes over mouth of Grapevine Canyon, making continuation of chain measurement impracticable; therefore, triangulate as follows:
Measure a base S. 89° 59' W., 8.10 chs.
Set flag on random line at a point on W. or left rim of Canyon Diablo, at end of N. or right rim of Grapevine Canyon.
From W. end of base, flag brs. N. 15° 46' E.
Included angles are 74° 13', 15° 47', and 90° 00', the sum of which is 180° 00'.
Distance triangulated on random line is therefore obtained by $\text{tang} 74^\circ 13' \times \text{base}$ or $3.53785 \times 8.10 = 28.66$ chs., which added to 12.33 chs. gives flag point as 40.99 chs. N. 0° 1' W. from $\frac{1}{4}$ sec. cor. of sec. 26.
- 28.00 (Approximate) Bottom of Grapevine Canyon, course E. from SW. About 150 ft. deep, joins bottom of Canyon Diablo, about 5 chs. E. of line. Ascend steep rough wall of both canyons.
 - 40.99 Flag point of above described triangulation, on W. or left rim of Canyon Diablo at its intersection with N. or left rim of Grapevine Canyon, at point of spur, sloping east.



18. Retracement part of subdivision lines Township 18 N., R. 12 E.

Chains.

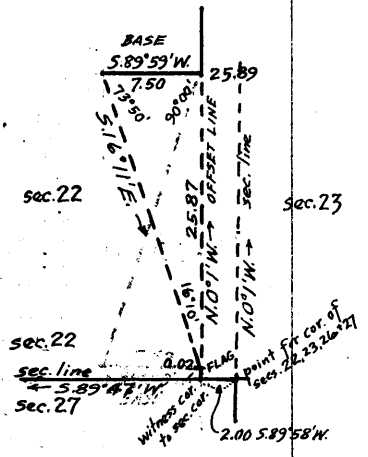
41.13 Continue measurement by chaining to Fall 151 lks.E. of witness cor. to cor. of secs. 22, 23, 26 and 27, or 49 lks.W. of true point for cor. of said secs. The witness cor. is a limestone boulder, 24x12x18 ins. above ground, marked with a cross (x) on top, "WC" on NE. face, 2 notches on S. and E. edges, and witnessed by a mound of stone, W. of cor. No bearing trees. True course and dist. of N. $\frac{1}{2}$ of W. bdy. of sec. 26 are therefore N. 0° 41' E., 41.13 chs. The length of E. bdy. of sec. 27 being 80.38 chs., the point for $\frac{1}{4}$ sec. cor. will be at the midpoint thereon, or 94 lks. N. 0° 41' E. from the $\frac{1}{4}$ sec. cor. of sec. 26, The $\frac{1}{4}$ sec. cor. of sec. 27 was not monumented or marked. Land, rolling, except where broken by canyon walls. Soil, rocky, 3rd and 4th rate. Timber, scattering cedar. Undergrowth, scattering scrub cedar and sage brush.

 RETRACEMENT- Part of the Subdivision lines of T. 18 N. R. 12 E.

The true position of S. half of line bet. secs. 22 and 23 passes along W. of left wall of Canyon Diablo, rendering chaining on same impracticable; therefore, obtain measurement by offset and triangulation as follows: From witness cor. to cor. of secs. 22, 23, 26 and 27, hereinbefore described, which is 2.00 chs. S. 89° 58' W. from true sec. cor. point, N. 0° 1' W. on offset line, thru S. $\frac{1}{2}$ of sec. 22, parallel to true position of S. $\frac{1}{2}$ of random line, bet. secs. 22 and 23. Over rough land, broken by mouths of two small short canyons.

.02 South rim of small canyon, brs. NW. and E. forming part of W. or left rim of Canyon Diablo. Impracticable to continue chain measurement on offset line, N. 0° 1' W. from this point; therefore leave flag at this point, and triangulate as follows:

Proceed to point on offset line, N. 0° 1' W. from flag. Measure a base, S. 89° 59' W., 7.50 chs. From W. end of base, flag brs. S. 16° 11' E. Included angles are 73° 50', 90° 00' and 16° 10', the sum of which is 180° 00'. Distance triangulated on offset line is therefore obtained by tang. 73° 50' x base or 3.44951 x 7.50 = 25.87 chs., which added to .02 chs. gives location of triangulation point as 25.89 chs. N. 0° 1' W. from witness cor.



The approximate positions on offset line of the intervening items of topography are as follows:

- 7.00 (Approximate) Bottom of small canyon, course NE., joining bottom of Canyon Diablo, a short dist. E. of line. Ascend on steep SE. slope.
- 12.00 (Approximate) Top of ascent brs. E. and W. Descend steep NE. slope.
- 21.00 (Approximate) Bottom of small canyon, course E., joining bottom of Canyon Diablo a short dist. east of line. Ascend steep SE. slope.
- 25.89 Triangulation point of triangulation hereinbefore described, on W. of left rim of Canyon Diablo, bearing NE. and SW. at this point. Continue measurement N. 0° 1' W., on offset line, over rolling land, thru scattering timber and undergrowth to offset point at 40.02 chs. N. 0° 1' W. from W.C. Thence, East, 1.89 chs. on offset line in sec. 22, to

Retracement of part of subdivision lines of T.18 N. R.12 E. 19

Chains.
 40.02 Intersect the original $\frac{1}{2}$ sec.cor.of secs. 22 and 23, which is a limestone, 8x6x5 ins. above ground, firmly set, marked "1" on W. face, and witnessed by 2 pits, one each N. and S. of cor., and mound of earth, W. of cor. No bearing trees.
 Falling of random lke, N. 0° 1' W. from true point for cor. of secs. 22, 23, 26 and 27, on this cor. would therefore be 2.00 chs. - 1.89 chs. = 11 lks. E.
 True course and dist. of S. $\frac{1}{2}$ of line bet. secs. 22 and 23, are therefore N. 0° 10' W., 40.02 chs.
 From $\frac{1}{2}$ sec. cor.,
 N. 0° 1' W., on random line, bet. secs. 22 and 23 (N. $\frac{1}{2}$).
 Over rolling land, thru scattering timber and undergrowth.
 18.38 SE. or right rim of canyon, brs. NE. and SW. Descend 55 ft.
 19.48 Bottom of canyon course NE. Ascend 70 ft.
 21.78 NW. or left rim of canyon, brs. NE. and SW. Reenter rolling land.
 40.03 Fall 11 lks. E of original cor. of secs. 14, 15, 22 and 23, which is a limestone, 10x8x6 ins. above ground, firmly set, marked with 3 notches on S. edge, and 2 notches on E. edge, and witnessed by mound of stone, W. of cor. No bearing trees.
 Land, rolling, except where broken by canyons.
 Soil, rocky, 3rd rate.
 Timber, scattering cedar.
 Undergrowth, scattering scrub cedar and sage brush.

 N. 0° 1' W., on random line, bet. secs. 14 and 15 (S. $\frac{1}{2}$).
 Over rolling land, thru scattering timber and undergrowth.
 2.20 South, or right rim of canyon, brs. E* and W. Descend 75 ft.
 14.90 Bottom of canyon, course E. Ascend 80 ft.
 15.35 North, or left rim of canyon, brs. E* and W. Ascend 110 ft. to
 22.48 Top of slope, brs. E* and W.
 34.50 Descend gradual N. slope.
 39.80 Fall 1 lk. west of original $\frac{1}{2}$ sec. cor. of secs. 14 and 15, which is a 15x6x6 ins. above, firmly set, marked "1" on W. face, and witnessed by mound of stone, W. of cor., and one bearing tree properly marked, SW. of cor.
 True course and dist. of S. $\frac{1}{2}$ of line, bet. secs. 14 and 15 are therefore North, 39.80 chs.
 Land, rolling.
 Soil, rocky, 3rd rate.
 Timber, none.
 Undergrowth, scattering scrub cedar and sage brush.

Resurvey of part of Subdivision lines of T.18 N., R.12 E.

 From original $\frac{1}{2}$ sec. cor. of secs. 14 and 15,
 N. 0° 1' W., on random line, bet. secs. 14 and 15 (N. $\frac{1}{2}$).
 Over rolling land, thru scattering timber and undergrowth.
 Descend gradual N. slope.
 5.60 South or right rim of canyon, brs. E. and W. Descend 45 ft.
 7.20 Bottom of canyon, course E. Ascend 75 ft.
 9.50 North, or left rim of canyon, brs. E. and W. Ascend 90 ft.
 15.20 Top of ascent brs. NW. and E.
 40.10 Fall 7 lks. E. of original cor. of secs. 10, 11, 15 and 15, which is a limestone, 8x6x6 ins. above ground, firmly set, marked with 4 notches on S. edge, and 2 notches on E. edge, and witnessed by mound of stone, W. of cor.
 No bearing trees. Reestablish this cor. as follows:
 Alongside of old stone, set an iron post, 3 ft. long, 2 ins. in diam., 24 ins. in the ground, for reestablished cor. of secs. 10, 11, 14 and 15, marked on brass cap,

20. Resurvey of part of subdivision lines of T.18 N., R.12 E.

Chains.

T18N	R12E
S10	S11
S15	S14
1917	

In addition to old mound of stone, W. of cor., dig pits, 18x18x12 ins., in each sec. 5 1/2 ft. dist.
 True course and dist. of N. 1/2 of line, bet. secs. 14 and 15 are therefore N. 0° 7' W., 40.10 chs.
 Land, rolling and broken.
 Soil, rocky, 3rd rate.
 Timber, scattering cedar.
 Undergrowth, scattering scrub cedar and sage brush.

From reestablished cor. of secs. 12 and 13, T.18 N., R.12 E. on E. bdy. of Tp. (3rd. Guide Mer. E.) described in Book "G,"

S. 89° 45' W. (record course) on random line, bet. secs. 12 and 13 (E. 1/2).

40.28 Over rolling land, thru scattering timber and undergrowth. Fall 4 lks. N. of original 1/4 sec. cor. of secs. 12 and 13, which is a limestone, 8x6x5 ins. above ground, marked "1" on N. face, and witnessed by two pits, one each E. and W. and mound of earth, N. of cor. No bearing trees. Owing to the excess dist., this 1/4 sec. cor. will now refer to sec. 13 only; therefore, obliterate marking on N. face of stone, mark "1" on S. face, destroy old mound of earth, N. of cor. and dig out old pits to 18x18x12 ins.

True course and dist. of E. 1/2 of N. bdy. of sec. 13, are therefore S. 89° 42' W., 40.28 chs.

Thence, S. 89° 45' W. (record course) on random line, on N. bdy. of sec. 13 (W. 1/2).

Over rolling land, thru scattering timber and undergrowth.

39.20 Road brs. NE. and SW.
 40.20 Fall 3 lks. N. of original cor. of secs. 11, 12, 13 and 14, which is a limestone, 12x8x6 ins. above ground, firmly set, marked with 4 notches on S. edge, and 1 notch on E. edge, and witnessed by mound of stone, W. of cor. No bearing trees.

True course and dist. of W. 1/2 of N. bdy. of sec. 13 are therefore S. 89° 43' W., 40.20 chs.

The length of the S. bdy. of sec. 12 being 80.48 chs., the point for 1/4 sec. cor. of sec. 12 will be at the midpoint thereon, or 4 lks. N. 89° 42' E. from the 1/4 sec. cor. of sec. 13.

The 1/4 sec. cor. of sec. 12, was not monumented.
 Land, rolling.
 Soil, gravelly and rock, 3rd rate.
 Timber, very scattering cedar.
 Undergrowth, scattering brigham brush.
 Fair grass.

RETRACEMENT of part of Subdivision lines of T.18 N. R.12 E.

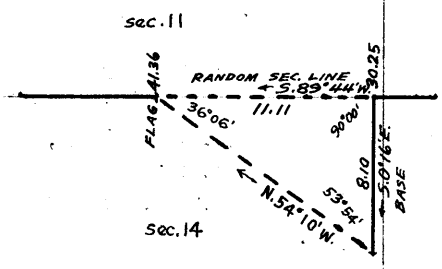
S. 89° 44' W. (record course) on random line, bet. secs. 11 and 14 (E. 1/2).

30.25 Over rolling land, thru scattering undergrowth. East or right rim of Canyon Diablo, brs. N. and S. Chaining of measurement across said canyon being impracticable, triangulate as follows:

Retracement of part of Subdivision lines of T.18 N., R.12 E. 21.

Chains.

Measure a base, S.0°16'E., 8.10 chs.
 Set flag on random line, on W. or left rim of canyon.
 From S. end of base, flag brs. N.54°10'W.
 Included angles are 53°54', 36°06' and 90°00', the sum of which is 180°00'.



Dist. on random line across canyon is therefore obtained by tang. 53° 54' x base or 1.37134 x 8.10 = 11.11 chs. which added to 30.25 chs. gives position of flag as 41.36 chs., S.89°44'W. 44'W. from cor. of secs. 11, 12, 13 and 14.

- 36.00 (Approximate) Bottom of Canyon Diablo, about 200 ft. below rim, course N.
- 39.76 Dist. determined as hereinafter described) Point for $\frac{1}{4}$ sec. cor. of secs. 11 and 14 falls on steep E. slope of W. or left wall of canyon, where the point could not be monumented or marked.
- 41.36 Flag point of above described triangulation on W. or left rim of Canyon Diablo, bearing N. and S.
- 47.76 Continue measurement on random line, S.89°44'W. Fall 5 lks. N. of original witness cor. to $\frac{1}{4}$ sec. cor. of secs. 11 and 14, which is a limestone, 8x6x5 ins. above ground, marked "WC $\frac{1}{4}$ " on N. face, and witnessed by a mound of stone, N. of cor.
 No bearing trees. This W.C. is on record as being set at 8.00 chs. S.89°44'W., from true point for cor.; therefore the true point for the cor. is found by 47.77 chs. - 8.00 chs. = 39.76 chs.
 The true course and dist. of E. $\frac{1}{2}$ of line bet. secs. 11 and 14 are therefore S.89°40'W., 39.76 chs.
 Land, rolling, except canyon.
 Soil, rocky, 3rd rate.
 Timber, none.
 Undergrowth, scattering brigham brush.
 Fair grass.

 RESURVEY of part of Subdivision lines of T.18 N., R.12 E.

- From true point for $\frac{1}{4}$ sec. cor. of secs. 11 and 14, on W. or left wall of Canyon Diablo, S. 89° 44' W. (record course) on random line, bet. secs. 11 and 14 (W. $\frac{1}{2}$).
 - Ascend on steep W. or left wall of Canyon Diablo, measuring by the triangulation, hereinbefore described.
 - 1.60 Flag point of triangulation, on W. or left rim of Canyon Diablo, bearing N. and S.
 - Continue measurement of W. $\frac{1}{2}$ of line, bet. secs. 11 and 14, by chaining.
 - Over rolling land, thru scattering undergrowth.
 - 8.00 Intersect original witness cor. to $\frac{1}{4}$ sec. cor. of secs. 11 and 14, hereinbefore described.
 - 40.00 Fall 5 lks. N. of reestablished cor. of secs. 10, 11, 14 and 15, hereinbefore described.
 True course and dist. of W. $\frac{1}{2}$ of line bet. secs. 11 and 14 are therefore, S.89°40'W., 40.00 chs.
 Land, rolling.
 Soil, rocky, 3rd rate.
 Timber, none.
 Undergrowth, scattering brigham brush.
 Fair grass.
-

22. survey of Completion of Subdivision of T. 18 N., R. 12 E.

Chains.

from original cor. of secs. 11, 12, 13 and 14, hereinbefore described,

N. 0° 1' W., bet. secs. 11 and 12.

Over rolling land, thru scattering low undergrowth.

24.20 Draw, course W. Ascend gradual S. slope, 20 ft. to

30.40 Top of slope.

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

s11 | s12

1917

Dig pits, 18x18x12 ins., N. and S. of post, 3 ft. dist.

78.00 Right rim of Canyon Diablo, brs. N. and SW. Descend NW. slope, 30 ft. to

80.00 Set an iron post, 3 ft. long, 2 ins. in diam., 20 ins. in the ground, in a mound of stone, for cor. of secs. 1, 2, 11 and 12, marked on brass cap.

T18N | R12E

S 2 | S 1

s11 | s12

1917

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

Land, rolling.

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

No timber.

Undergrowth, scattering short brigham brush.

Fair grass.

N. 89° 45' E., on a random line, bet. secs. 1 and 12.

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

80.48 Intersect E. bdy. of Tp. (3rd. Guide Meridian East) 8 lks. S. of the reestablished cor. of secs. 1 and 12, described in Book "G."

Thence,

S. 89° 42' W., on a true line, bet. secs. 1 and 12.

Over rolling land, thru scattering low undergrowth.

18.98 Road brs. NE. and SW.

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

$\frac{1}{4}$ S 1

S 12

1917

Dig pits, 18x18x12 ins., E. and W. of post, 3 ft. dist.,

80.18 Right rim of Canyon Diablo; descend 25 ft. to

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

Land, gently rolling.

Soil, sandy, 2nd rate.

Timber, none.

Undergrowth; scattering brigham brush.

Fair growth of grass.

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

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

81.04 Intersect N. bdy. of Tp., 34 lks. W. of the reestablished cor. of secs. 1 and 2, hereinbefore described.

Thence,

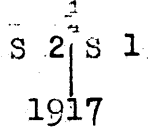
S. 0° 15' W. on a true line, bet. secs. 1 and 2.

Over rolling land, thru scattering timber and undergrowth.

Survey of Completion of subdivision lines of T.18 N., R.12 E. 23.

Chains.

- 19.84 Left rim of side canyon, bears E* and W. Descend 45 ft. to
- 20.54 Bottom of canyon, course E. Ascend to
- 22.84 Right rim of canyon.
- 41.04 Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked on brass cap,



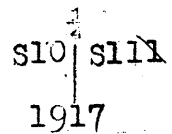
from which,

- A cedar, 10 ins. in diam., brs. S. $26\frac{3}{4}^{\circ}$ E., 238 lks. dist., marked $\frac{1}{4}$ S 1 B T.
- A cedar, 8 ins. in diam., brs. N. $16\frac{3}{4}^{\circ}$ W., 120 lks. dist., marked $\frac{1}{4}$ S 2 B T.

- Descend to
 - 52.34 Side canyon, course E. Ascend.
 - 59.05 Left rim of canyon, brs. E* and W. Descend 150 ft. to
 - 65.00 enter Canyon Diablo, course NE.
 - 76.00 Bottom of Canyon Diablo, course N. Ascend right wall of canyon, 120 ft. to
 - 81.04 Right rim of Canyon Diablo.
- The cor. of secs. 1, 2, 11 and 12.
 Land, rolling.
 Soil, sandy and rocky, 3rd and 4th rate.
 Timber, scattering cedar.
 Undergrowth, scattering sage brush.

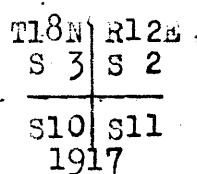
From the reestablished cor. of secs. 10, 11, 14 and 15, hereinbefore described,
 N. 0° 1' W., bet. secs. 10 and 11.

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



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

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



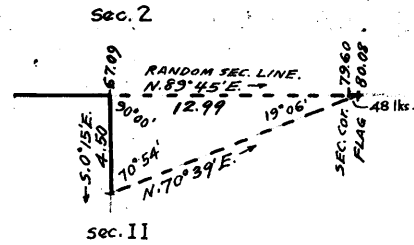
Dig pits, 18x18x12 ins., in each sec. $5\frac{1}{2}$ ft. dist.

Land, rolling.
 Soil, rocky and sandy, 3rd rate.
 No timber.
 Undergrowth, scattering sage brush.
 Fair growth of grass.

24. Completion of subdivision of Township 18 North, Range 12 East.

Chains.

40.00 N.89°45'E., on a random line, bet. secs. 2 and 11.
 Set temp. $\frac{1}{4}$ sec.cor.
 67.09 Rim of Canyon Diablo. To determine the distance across the canyon, set a flag on line, N.89°45'E., on right rim of canyon; then measure a base S.0°15'E., 4.50 chs. to a point from which the flag on right rim of canyon brs. N.70°39'E.
 The distance across the canyon is tan. 70°54' x base, or 2.88783 x 4.50 chs., which gives 12.99 chs., which added to 67.09 chs., makes



80.08 Triangulation point on right rim of canyon, and 48 lks. E. of N. and S. line, thru. sec.cor.
 79.60 Intersect N. and S. line, at the cor. of secs. 1, 2, 11 and 12.
 Thence, S.89°45'W., on a true line, bet. secs. 2 and 11. Over rolling land, thru. scattering timber and undergrowth, from right rim of Canyon Diablo which brs. N. and S. Descend 150 ft. to
 2.10 Bottom of Canyon Diablo, course NE. Ascend to
 12.51 Thence over rolling land.
 39.80 Set an iron post, 3 ft. long, 1 in. in diam., 18 ins. in the ground, in a mound of stone, for $\frac{1}{4}$ sec.cor., marked on brass cap,

$\frac{1}{4}$ S 2
 S 11
 1917

79.60 Dig pits, 18x18x12 ins., E. and W. of post, 3 ft. dist. The cor. of secs. 2, 3, 10 and 11.
 Land, rolling, broken by Canyon Diablo. General east slope.
 Soil, rocky, 3rd rate.
 Timber, scattering cedar.
 Undergrowth, sage brush.

40.00 N.0°1'W., on a random line, bet. secs. 2 and 3.
 Set temp. $\frac{1}{4}$ sec.cor.
 81.42 Intersect N. bdy. of Tp., 8 lks. E. of the reestablished cor. of secs. 2 and 3, hereinbefore described.
 Thence, S.0°4'E., on a true line, bet. secs. 2 and 3. Over rolling land, thru. scattering undergrowth.
 8.32 Draw, course NE.
 41.42 Set an iron post, 3 ft. long, 1 in. in diam., 6 ins. in the ground, in a mound of stone, for $\frac{1}{4}$ sec.cor., marked on brass cap,

S 3 $\frac{1}{4}$ S 2
 1917

and raise a mound of stone, 2 ft. base, 1 $\frac{1}{2}$ ft. high, W. of cor.
 59.42 Draw, course NE.
 81.42 The cor. of secs. 2, 3, 10 and 11.
 Land, rolling.
 Soil, gravelly and sandy loam, 2nd and 3rd rate.
 No timber.
 Undergrowth, scattering sage brush.
 Fair growth of grass.

Completion of Subdivision of Township 18 North, Range 12 East, 25

Chains

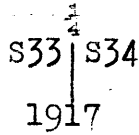
From original cor. of secs. 3, 4, 33 and 34, on S. bdy. of Tp., described in Book "I,"

N. 0° 2' W., bet. secs. 33 and 34.

Over gently rolling land, NE. drainage, thru scattering timber.

37.30 Draw, course NE.

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



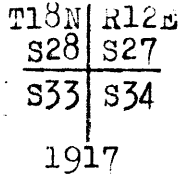
and raise a mound of stone, 2 ft. base, 1 1/2 ft. high, W. of cor.

71.00 Right rim of canyon, brs. NE. and SW. Descend 30 ft. to

72.80 Bottom of canyon, course NE. Ascend to

75.00 Left rim of canyon, brs. NE. and SW.

80.00 Set an iron post, 3 ft. long, 2 ins. in diam., 12 ins. in the ground, in a mound of stone, for cor. of secs. 27, 28, 33 and 34, marked on brass cap,



from which,

A cedar, 7 ins. in diam., brs. N. 40 1/2° E., 108 lks. dist., marked T18N R12 E S27 BT.

A cedar, 4 ins. in diam., brs. S. 20 1/2° E., 122 lks. dist., marked T18N R12E S34 BT.

A cedar, 5 ins. in diam., brs. S. 57 1/2° W., 40 lks. dist., marked T18N R12E S33 BT.

A cedar, 10 ins. in diam., brs. N. 58 1/2° W., 54 lks. dist., marked T18N R12E S28 BT.

Land, rolling, NE. drainage.

Timber, scattering cedar.

Undergrowth, scattering sage brush.

Soil, rocky, 2nd and 3rd rate.

East, on a random line, bet. secs. 27 and 34.

40.00 Set temp. 1/4 sec. cor.

80.30 Intersect N. and S. line, 3 lks. S. of original cor. of secs. 26, 27, 34 and 35, hereinbefore described.

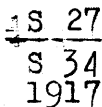
Thence,

S. 89° 59' W., on a true line, bet. secs. 27 and 34.

Over rolling land, thru scattering timber.

20.30 Draw, course SE.

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



from which;

A cedar, 6 ins. in diam., brs. N. 48 1/2° E., 134 lks. dist., marked 1/4 S 27 B T.

A cedar, 10 ins. in diam., brs. S. 4 1/2° W., 78 lks. dist., marked 1/4 S 34 B T.

64.15 Left rim of canyon, brs. N. and S. Descend 40 ft. to

65.95 Bottom of canyon, course N. Ascend NE. slope, to

71.30 Left rim of canyon, brs. N. and S.

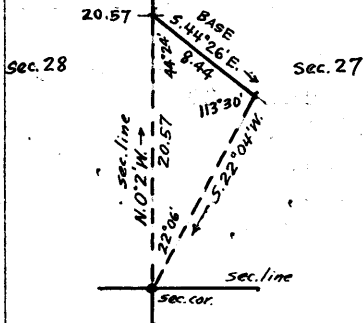
26. Completion of Subdivision of Township 18 North, Range 12 East.

Chains.

- 74.25 Right rim of canyon, brs. N. and S. Descend to
- 75.83 Bottom of canyon, course N. Ascend 60 ft. to
- 78.77 Left rim of canyon, course N. Ascend 60 ft. to
- 80.30 The cor. of secs. 27, 28, 33 and 34.
Land, rolling.
Soil, shallow, rocky, 2nd and 3rd rate.
Timber, scattering cedar.

N. 0° 2' W., bet. secs. 27 and 28.

Measuring across Grapevine Canyon by triangulation as follows:



Leave flag on cor. of secs. 27, 28, 33 and 34.

From point near N. or left rim, of canyon,

N. 0° 2' W. from flag, measure a base S. 44° 26' E., 8.44 chs. From SE. end of base, flag brs. S. 22° 4' W.

Included angles are 113° 30'; 22° 6' and 44° 24', the sum of which is 180° 00'.

Dist. on sec. line, from sec. cor. across Grapevine Canyon to triangulation point near N. rim, is therefore obtained by

$$\frac{\text{Sine } 113^\circ 30' \times \text{base}}{\text{sine } 22^\circ 6'} \text{ or } \frac{.91796 \times 8.44}{.37622} = 20.57 \text{ chs.}$$

- 9.00 (Approximate) Bottom of Grapevine Canyon, 125 ft. below rim, course E. Running stream of muddy water, 20 lks. wide, 4 ft. deep. Ascend steep N. wall of canyon.
- 20.57 Triangulation point, on N. wall of canyon near rim. Continue measurement by chaining. Ascend steep S. slope.
- 23.50 North or left rim of Grapevine Canyon, brs. E. and W. 200 ft. above bottom of canyon. Thence over rolling land, thru. scattering timber and undergrowth.
- 40.00 Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in the ground, for $\frac{1}{4}$ sec. cor. of secs. 27 and 28, marked on brass cap,

s28 ¹/₄ s27

1917

from which,

A cedar, 6 ins. in diam., brs. S. 84 $\frac{1}{2}$ ° E., 187 lks. dist., mark " $\frac{1}{4}$ S27 BT."

A cedar, 14 ins. in diam., brs. N. 18 $\frac{3}{4}$ ° W., 437 lks. dist., mark " $\frac{1}{4}$ S 28 BT."

- 80.00 Set an iron post, 3 ft. long, 2 ins. in diam., 18 ins. in the ground, in a mound of stone, for cor. of secs. 21, 22, 27 and 28, marked on brass cap,

T18N | R12E

S21 | S22

S28 | S27

1917

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

Land, rolling and broken.
Soil, shallow, sandy and rocky, 2nd and 3rd rate.
Timber, scattering cedar.
Undergrowth, low brush.

Completion of Subdivision of T. 18 N., R. 12 E.

Chains

N. 89° 59' E. on a random line bet. secs. 22 and 27.
 40.00 Set temp. $\frac{1}{4}$ sec. cor.
 86.82 Intersect N. and S. line, 28 lks. S. of true point for
 cor. of secs. 22, 23, 26 and 27, hereinbefore described.
 Thence
 S. 89° 47' W. on a true line bet. secs. 22 and 27.
 Over rolling rocky land, through scattering timber and
 undergrowth.
 2.00 (S. 89° 58' W. of cor. point) the witness cor. to cor. of secs. 22,
 23, 26 and 27, hereinbefore described.
 8.20 Right rim of canyon brs. NE. and SW. Desc. 50 ft. to
 11.10 Bottom of canyon, course NE. near head. Ascend 50 ft. to
 12.30 Left rim of canyon brs. NE. and SW.
 40.82 Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the
 ground, for $\frac{1}{4}$ sec. cor., mkd. on brass cap

$\frac{1}{4}$ S 22
 $\frac{1}{4}$ S 27
 1917

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

Asc. gradual slope.
 74.80 Top of knoll. Desc. 40 ft. to
 80.82 The cor. of secs. 21, 22, 27 and 28.
 Land, rolling and broken.
 Soil, rocky, 3rd rate.
 Timber, scattering cedar.
 Undergrowth, low brush.

N. 0° 2' W. bet. secs. 21 and 22.
 Over rolling land, through scattering timber and under-
 growth.

10.00 Desc. N. slope. 30 ft. to.
 17.00 Draw, course NE.
 26.00 Wash, 15 lks. wide, 1 ft. deep, course NE.
 40.00 Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the
 ground, for $\frac{1}{4}$ sec. cor., mkd. on brass cap

$\frac{1}{4}$
 S21 | S22
 1917

from which,
 A cedar, 10 ins. diam., brs. N. $32\frac{1}{2}$ ° E.
 156 lks. dist.; mkd. $\frac{1}{4}$ S 22 B T.
 A cedar, 10 ins. diam., brs. N. 45° W.
 194 lks. dist.; mkd. $\frac{1}{4}$ S 21 B T.

42.50 Low rocky ridge brs. NE. and SW. Desc. NW. slope
 68.20 Draw, course NE. Asc. gradual SE. slope.
 80.00 Set an iron post, 3 ft. long, 2 ins. diam., 4 ins. in the
 ground, in a mound of stone, for cor. of secs. 15, 16,
 21 and 22, mkd. on brass cap

T18N R12E
 S16 | S15
 S21 | S22
 1917

from which,
 A cedar, 8 ins. diam., brs. N. 11° E.
 183 lks. dist.; mkd. T 18 N R 12 E S 15 B T.
 A cedar, 8 ins. diam., brs. S. $63\frac{1}{2}$ ° E.
 204 lks. dist.; mkd. T 18 N R 12 E S 22 B T.
 A cedar, 12 ins. diam., brs. S. $23\frac{1}{4}$ ° W.
 88 lks. dist.; mkd. T 18 N R 12 E S 21 B T.
 A cedar, 10 ins. diam., brs. N. 43° W.
 68 lks. dist.; mkd. T 18 N R 12 E S 16 B T.

Completion of Subdivision of T. 18 N., R. 12 E.

Chains

Land, rolling, NE. drainage.
Soil, rocky, shallow, 3rd rate.
Timber, scattering cedar.
Undergrowth, low brush.

40.00 N. 89° 47' E. on a random line bet. secs. 15 and 22.
Set temp. 1/4 sec. cor.
80.46 Intersect N. and S. line, at original cor. of secs. 14, 15, 22
and 23, hereinbefore described.
Thence
S. 89° 47' W. on a true line bet. secs. 15 and 22.
Over rolling land, through scattering timber and under-
growth.
25.05 Wash, in draw, 12 lks. wide, 1 ft. deep, course NE.
40.23 Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the
ground, for 1/4 sec. cor., mkd. on brass cap

1/4 S 15
4/8 S 22
1917

from which,

A cedar, 10 ins. diam., brs. S. 80° E.
97 lks. dist.; mkd. 1/4 S 15 B T.
A cedar, 6 ins. diam., brs. N. 21 3/4° W.
162 lks. dist.; mkd. 1/4 S 15 B T.

61.46 Top of slope. Desc. 60 ft. to
73.36 Wash, in draw, 20 lks. wide, 2 ft. deep, course NE.
Asc. SE. slope, 65 ft. to
80.46 The cor. of secs. 15, 16, 21 and 22.
Land, rolling.
Soil, sandy and rocky, 3rd rate.
Timber, scattering cedar.
Undergrowth, low brush.
Poor growth of grass.

6.45 N. 0° 2' W. bet. secs. 15 and 16.
11.00 Over rolling land, through scattering timber and under-
40.00 growth.
Draw, course NE. Asc. S. slope, 40 ft. to
Top of slope. Thence over rolling land.
Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the
ground, for 1/4 sec. cor., mkd. on brass cap

1/4
S16 | S15
1917

from which,

A cedar, 10 ins. diam., brs. N. 82° E.
86 lks. dist.; mkd. 1/4 S 15 B T.
A cedar, 4 ins. diam., brs. S. 34 1/4° W.
48 lks. dist.; mkd. 1/4 S 16 B T.

46.00 Canyon, 25 ft. deep, course NE. Asc. SE. slope.
64.00 Top of slope.
68.50 Draw, course E.
Wash in draw, 10 lks. wide, 2 ft. deep, course E.
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, mkd. on
brass cap

T18N R12E
S 9 | S10
S16 | S15
1917

Chains

and raise a mound of stone, 2 ft. base, 1½ ft. high,
 W. of cor.
 Land, rolling, general E. drainage.
 Soil, gravelly, 3rd rate.
 Timber, scattering cedar.
 Undergrowth, scattering low brush.

40.00 N. 89° 47' E. on a random line bet. secs. 10 and 15.
 Set temp. ¼ sec. cor.
 80.46 Intersect N. and S. line, 12 lks. N. of the reestablished
 cor. of secs. 10, 11, 14 and 15, hereinbefore described.
 Thence
 S. 89° 52' W. on a true line bet. secs. 10 and 15.
 Over rolling land, through scattering undergrowth.
 11.46 Top of slope. Desc. SW. slope.
 36.46 Draw, course SE.
 40.23 Set an iron post, 3 ft. long, 1 in. diam., 18 ins. in the
 ground, in a mound of stone, for ¼ sec. cor., mkd. on
 brass cap

S 10
 4S 15
 1917

80.46 and raise a mound of stone, 2 ft. base, 1½ ft. high,
 N. of cor.
 The cor. of secs. 9, 10, 15 and 16.
 Land, rolling, general SE. drainage.
 Timber, none.
 Undergrowth, scattering low brush.
 Soil, rocky and sandy, 3rd rate.

40.00 N. 0° 2' W. bet. secs. 9 and 10.
 Over rolling land, through scattering undergrowth.
 Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the
 ground, for ¼ sec. cor., mkd. on brass cap

¼
 S 9 | S 10
 1917

51.20 dig pits, 18 X 18 X 12 ins., N. and S. of post, 3 ft.
 dist.
 Draw, course E. Asc. gradual S. slope.
 74.00 Top of low ridge brs. E. and W. Desc. gradual N. 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, mkd. on brass
 cap

T18N R12E
 S 4 | S 3
 S 9 | S 10
 1917

and raise a mound of stone, 2 ft. base, 1½ ft. high,
 W. of cor.
 Land, rolling, general E. drainage.
 Timber, none.
 Undergrowth, scattering low brush.
 Soil, shallow sandy, 3rd rate.
 Abundant grass.

92

Completion of Subdivision of T. 18 N., R. 12 E.

Chains
 40.00 N. 89° 52' E. on a random line bet. secs. 3 and 10.
 Set temp. $\frac{1}{4}$ sec. cor.
 80.40 Intersect N. and S. line, 21 lks. S. of the cor. of secs.
 2, 3, 10 and 11.
 Thence
 S. 89° 43' W. on a true line bet. secs. 3 and 10.
 Over rolling land, through scattering undergrowth.
 25.40 Draw, course NE.
 40.20 Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the
 ground, for $\frac{1}{4}$ sec. cor., mkd. on brass cap

$\frac{1}{4}$ S 3
 $\frac{1}{4}$ S 10
 1917

dig pits, 18 X 18 X 12 ins., E. and W. of post, 3 ft.
 dist.
 80.40 The cor. of secs. 3, 4, 9 and 10.
 Land, rolling, NE. drainage.
 No timber.
 Soil, shallow sandy, 2nd rate, limestone outcroppings.
 Undergrowth, low brush.
 Abundant grass.

40.00 N. 0° 2' W. on a random line bet. secs. 3 and 4.
 Set temp. $\frac{1}{4}$ sec. cor.
 81.76 Intersect N. bdy. of Tp., 28 lks. W. of the reestablished
 cor. of secs. 3 and 4, hereinbefore described.
 Thence
 S. 0° 10' W. on a true line bet. secs. 3 and 4.
 Over rolling land, through scattering undergrowth.
 41.76 Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the
 ground, for $\frac{1}{4}$ sec. cor., mkd. on brass cap

$\frac{1}{4}$
 S 4 | S 3
 1917

dig pits, 18 X 18 X 12 ins., N. and S. of post, 3 ft.
 dist.
 67.76 Draw, course E.
 81.76 The cor. of secs. 3, 4, 9 and 10.
 Land, rolling, NE. drainage.
 Soil, sandy, 2nd rate, limestone formation.
 No timber.
 Undergrowth, scattering low brush.
 Fair growth of grass.

From the reestablished cor. of secs. 4, 5, 32 and 33, on S.
 bdy. of Tp., described in book "I",
 N. 0° 2' W. bet. secs. 32 and 33.
 Over rolling land, through scattering timber and under-
 growth.
 20.00 Draw, course NE.
 40.00 Set an iron post, 3 ft. long, 1 in. diam., on surface
 rock, in a mound of stone, for $\frac{1}{4}$ sec. cor., mkd. on
 brass cap

$\frac{1}{4}$
 S32 | S33
 1917

Completion of subdivision of Township 18 North, Range 12 East. 31

Chains.

from which,
 A pinyon, 12 ins. in diam., brs. S. 1° E., 120 lks.
 dist., marked $\frac{1}{4}$ S 33 BT.
 A cedar, 15 ins. in diam., brs. S. 24° W., 68 lks.
 dist., marked $\frac{1}{4}$ S 32 B T.

- 44.00 Draw, course NE.
- 64.30 Right rim of canyon, brs. NE. and SW. Descend 50 ft.
- 66.70 Bottom of canyon, course E.
- 69.50 Left rim of canyon, brs. E and W.
- 76.80 Right rim of Grapevine Canyon, brs. NE. and SW. Descend to
- 80.00 Set an iron post, 3 ft. long, 2 ins. in diam., 10 ins. in the ground, in a mound of stone, for cor. of secs. 28, 29, 32 and 33, marked on brass cap,

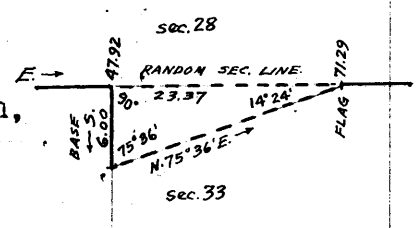
T18N	R12E
S29	S28
S32	S33
1917	

and raise a mound of stone, 2 ft. base, 1 1/2 ft. high, W. of cor.
 Land, rolling, general NE. drainage.
 Soil, rocky, 3rd and 4th rate.
 Timber, scattering cedar and pinyon.
 Undergrowth, low brush.

- 40.00 East, on random line, bet. secs. 28 and 33. Set temp. $\frac{1}{4}$ sec. cor.
- 47.92 Point on S. or right rim of Grapevine Canyon, bearing NW. and SE.

East, from this point random sec. line passes over S. wall of said canyon, rendering chaining impracticable; therefore triangulate as follows:

Measure a base, south 6.00 chs.
 Set flag on random sec. line at a point on S. rim of Grapevine Canyon, where it recrosses line. From S. end of base, flag brs. N. 75° 36' E. Included angles are 75° 36', 90° 00' and 14° 24', the sum of which is 180° 00'. Dist. triangulated on random sec. line is therefore obtained by $\text{tang. } 75^\circ 36' \times \text{base or } 3.89474 \times 6.00 = 23.37$ chs. which added to 47.92 chs. =



- 71.29 Flag point on S. rim of Grapevine Canyon, brs. NE. and SW. Continue measurement by chaining E. on random sec. line.
- 80.02 Intersect N. and S. line, 8 lks. S. of cor. of secs. 27, 28, 33 and 34. Thence, S. 89° 57' W., on true line, bet. secs. 28 and 33. Over rolling land, near S. rim of Grapevine Canyon, thru. scattering timber and undergrowth.
- 8.73 S. or right rim of Grapevine Canyon, brs. NE. and SW. Thence by triangulated measurement across bend in S. wall of canyon.
- 32.10 S. or right rim of Grapevine Canyon, brs. NW. and SE. Continue measurement by chaining, over rolling land, near S. rim of Grapevine Canyon.
- 40.01 Set an iron post 3 ft. long, 1 in. in diam., 15 ins. in the ground, in a mound of stone, for $\frac{1}{4}$ sec. cor., marked on brass cap,

$\frac{1}{4}$ S 28
S 33
1917

from which,
 A cedar, 10 ins. in diam., brs. N. 30° W. 119 lks.
 dist., marked $\frac{1}{4}$ S 28 BT.
 A cedar, 6 ins. in diam., brs. S. 56° E., 81 lks.
 dist., marked $\frac{1}{4}$ S 33 BT.

- Ascend E. slope.
- 43.00 Descend 150 ft. to
- 46.95 S. or right rim of Grapevine Canyon, brs. NE. and SW. Descend

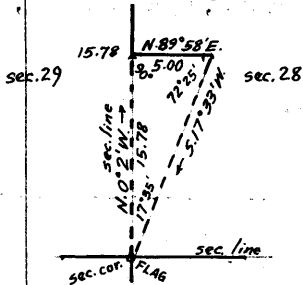
32 20. Completion of subdivision of Township 18 North, Range 12 E.

- Chains.
- 80 ft. to
 - 55.30 Bottom of side canyon, course N. joins bottom of Grapevine Canyon, 2 chs. N. of line. Grapevine Canyon, course E. passes thru. sec. 28.
 - Ascend NE. slope, 80 ft.
 - 64.35 S. or right rim of Grapevine Canyon, brs. NW. and SE. Descend NW. slope to
 - 65.30 Draw, course NE. Ascend E. slope to
 - 74.80 Top of ascent. Thence over rolling land.
 - 77.80 S. or right rim of Grapevine Canyon, brs. NE. and SW. Descend 40 ft. to
 - 80.02 The cor. of secs. 28, 29, 32 and 33, on SE. wall of canyon. Land, rolling and broken. Soil, rocky, 3rd rate. Timber, scattering cedar.

N. 0° 2' W., bet. secs. 28 and 29.

By triangulated measurement across Grapevine Canyon, as follows:

Leave flag on cor. of secs. 28, 29, 32 and 33,



Measure a base N. 89° 58' E., 5.00 chs. from point on sec. line on N. or left rim of Grapevine Canyon.

From E. end of base, flag brs. S. 17° 33' W. Included angles are 72° 25', 17° 35' and 90° 00', the sum of which is 180° 00'.

Dist. on sec. line from sec. cor. is therefore obtained by $\text{tang. } 72^\circ 25' \times \text{base}$ or $3.15558 \times 5 = 15.78$ chs.

- 6.00 (Approximate) Bottom of Grapevine Canyon, 150 ft. below sec. cor. Stream of running water, 60 lks. wide, 5 ft. deep, course E. Ascend 150 ft. on steep SE. slope.
- 15.78 Triangulation point on N. or left rim of Grapevine Canyon, brs. NE. and SW. Continue measurement on sec. line by chaining. Over rolling land, thru. scattering timber.
- 23.90 Draw, course E.
- 40.00 Set an iron post, 3 ft. long, 1 in. in diam., 12 ins. in the ground, in a mound of stone, for $\frac{1}{4}$ sec. cor. marked on brass cap,

S29 | S28
1917

from which,

A cedar, 8 ins. in diam., brs. N. 79 $\frac{1}{2}$ ° E., 452 lks. dist., marked $\frac{1}{4}$ S28 BT.

A cedar, 10 ins. in diam., brs. N. 18° W., 1148 lks. dist., marked $\frac{1}{4}$ S29 BT.

- 45.00 Descend gradual NE. slope.
- 80.00 Set an iron post, 3 ft. long, 2 ins. in diam., 12 ins. in the ground, in a mound of stone, for cor. of secs. 20, 21, 28 and 29, marked on brass cap,

T18N | R12E
S20 | S21
S29 | S28
1917

and raise mound of stone, 2 ft. base, 1 $\frac{1}{2}$ ft. high, W. of cor. Land, rolling and broken. Soil, rocky, 3rd rate. Timber, scattering cedar. Undergrowth none.

- 40.00 N. 89° 57' E., on a random line, bet. secs. 21 and 28. Set temp. $\frac{1}{4}$ sec. cor.
- 79.88 Intersect N. and S. line at cor. of secs. 21, 22, 27 and 28. Thence, S. 89° 57' W., on a true line, bet. secs. 21 and 28. Over rolling land, thru. scattering undergrowth.
- 39.94 Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked on brass cap,

Completion of Subdivision of T. 18 N. R. 12 E.

Chains

$\frac{1}{4}$ S 21
 $\frac{1}{4}$ S 28
1917

dig pits, 18 X 18 X 12 ins., E. and W. of post, 3-ft. dist.
56.28 Top of low ridge, brs. N. and S. Desc. W. slope 30 ft.
63.20 Dim road brs. N. and S.
Draw, course S.
79.88 The cor. of secs. 20, 21, 28 and 29.
Land, rolling.
Soil, sandy and rocky, 3rd rate.
No timber.
Undergrowth, low brush.

N. 0° 2' W. bet. secs. 20 and 21.
Over rolling land, through scattering timber and undergrowth:
10.30 Draw, course NE.
40.00 Draw, course NE.
Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the ground, for $\frac{1}{4}$ sec. cor., mkd. on brass cap

$\frac{1}{4}$
S20 | S21
1917

dig pits, 18 X 18 X 12 ins., N. and S. of post, 3-ft. dist.
66.50 Low rocky ridge, 30 ft. high, brs. NW. and SE.
80.00 Set an iron post, 3 ft. long, 2 ins. diam., 24 ins. in the ground, for cor. of secs. 16, 17, 20 and 21, mkd. on brass cap

T18N R12E
S17 | S16
S20 | S21
1917

dig pits, 18 X 18 X 12 ins., in each sec., 5 $\frac{1}{2}$ ft. dist.
Land, rolling, general NE. drainage.
Soil, rocky 3rd rate.
Timber, scattering cedar.
Undergrowth, scattering low brush.

N. 89° 57' E. on a random line bet. secs. 16 and 21.
40.00 Set temp. $\frac{1}{4}$ sec. cor.
79.92 Intersect N. and S. line, 30 lks. S. of the cor. of secs. 15, 16, 21 and 22.
Thence
S. 89° 44' W. on a true line bet. secs. 16 and 21.
Over rolling land, through scattering timber and undergrowth.
Asc. gradual SE. slope, 40 ft. to
6.90 Thence over gently rolling land.
39.96 Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the ground, for $\frac{1}{4}$ sec. cor., mkd. on brass cap

$\frac{1}{4}$ S 16
 $\frac{1}{4}$ S 21
1917

from which,
A cedar, 12 ins. diam., brs. N. 30 $\frac{1}{2}$ ° E.
61 lks. dist.; mkd. $\frac{1}{4}$ S 16 B T.
A cedar, 5 ins. diam., brs. S. 59 $\frac{1}{2}$ ° E.
84 lks. dist.; mkd. $\frac{1}{4}$ S 21 B T.

Chains

Asc. gradual slope.
 55.90 Top of slope. Desc. 50 ft.
 62.10 Dim road brs. N. and S. Desc. gradual W. slope.
 63.30 Draw, course N.
 79.92 The cor. of secs. 16, 17, 20 and 21.
 Land, rolling, NE. drainage.
 Timber, scattering cedar.
 Soil, rocky and sandy, 3rd rate.
 Undergrowth, scattering low brush.
 Poor growth of grass.

N. 0° 2' W. bet. secs. 16 and 17.
 Over rolling land, through scattering undergrowth.
 3.70 Desc. NW. slope, 30 ft. to
 8.70 Draw, course NE. Asc. SE. slope to
 34.30 Draw, course E.
 Wash, in draw, 10 lks. wide, 2 ft. deep, course E.
 40.00 Set an iron post, 3 ft. long, 1 in. diam., 12 ins. in the
 ground, in a mound of stone, for $\frac{1}{4}$ sec. cor., mkd. on
 brass cap

$\frac{1}{4}$
 S17 | S16
 1917

and raise a mound of stone, 2 ft. base, 1½ ft. high,
 W. of cor.
 80.00 Set an iron post, 3 ft. long, 2 ins. diam., 12 ins. in the
 ground, in a mound of stone, for cor. of secs. 8, 9,
 16 and 17, mkd. on brass cap

T18N R12E
 S 8 | S 9
 S17 | S16
 1917

and raise a mound of stone, 2 ft. base, 1½ ft. high,
 W. of cor.
 Land, rolling, E. drainage.
 No timber.
 Undergrowth, low brush.
 Soil, sandy and rocky, 3rd rate.
 Poor growth of grass.

N. 89° 44' E. on a random line bet. secs. 9 and 16.
 40.00 Set temp. $\frac{1}{4}$ sec. cor.
 79.94 Intersect N. and S. line, 7 lks. N. of cor. of secs. 9,
 10, 15 and 16.
 Thence
 S. 89° 47' W. on a true line bet. secs. 9 and 16.
 Over rolling land, through scattering undergrowth.
 39.97 Set an iron post, 3 ft. long, 1 in. diam., 12 ins. in the
 ground, in a mound of stone, for $\frac{1}{4}$ sec. cor., mkd. on
 brass cap

$\frac{1}{4}$ S 9
 S 16
 1917

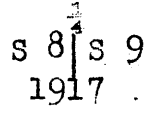
and raise a mound of stone, 2 ft. base, 1½ ft. high,
 N. of cor.
 59.20 Dim road brs. N. and S.
 Draw, course NE. Asc. E. slope 40 ft. to
 74.95 Thence over rolling land to
 79.94 The cor. of secs. 8, 9, 16 and 17.

Completion of subdivision of Township 18 North, Range 12 east. 29 35

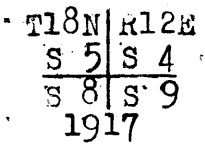
Chains.

Land, rolling, general SE. drainage.
Soil, sandy and rocky, 3rd rate. No timber.
Undergrowth, low brush.

- N. 0° 2' W., bet. secs. 8 and 9.
- Over rolling land, thru scattering undergrowth.
- 15.00 Descend NW. slope, 40 ft. to
- 23.90 Wash, in draw, 10 lks. wide, 3 ft. deep, course NE.
- Ascend gradual SE. slope, 20 ft. to
- 35.00 Top of slope. Descend gradual slope to
- 38.70 Wash, in draw, 10 lks. wide, 1 ft. deep; course NE.
- 40.00 Set an iron post; 3 ft. long, 1 in. in diam., 12 ins. in the ground, in a mound of stone, for $\frac{1}{4}$ sec. cor., marked on brass cap,

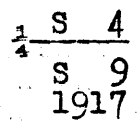


- 80.00 and raise mound of stone, 2 ft. base, 1 $\frac{1}{2}$ ft. high, W. of cor.
- Set an iron post 3 ft. long, 2 ins. in diam., 12 ins. in the ground, in a mound of stone, for cor. of secs. 4, 5, 8 and 9, marked on brass cap,



and raise mound of stone, 2 ft. base, 1 $\frac{1}{2}$ ft. high, W. of cor.
Land, rolling, NE. drainage.
Soil, sandy and rocky, 3rd rate.
No timber; undergrowth, scattering sage brush.
Fair growth of grass.

- N. 89° 47' E., on a random line, bet. secs. 4 and 9.
- 40.00 Set temp. $\frac{1}{4}$ sec. cor.
- 80.00 Intersect N. and S. line, 7 lks. N. of cor. of secs. 3, 4, 9 and 10.
- Thence,
- S. 89° 50' W., on a true line, bet. secs. 4 and 9.
- Over rolling land, thru scattering undergrowth.
- 40.00 Set an iron post, 3 ft. long, 1 in. in diam., 6 ins. in the ground, in a mound of stone, for $\frac{1}{4}$ sec. cor., marked on brass cap,



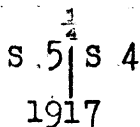
- and raise a mound of stone, 2 ft. base, 1 $\frac{1}{2}$ ft. high, N. of cor.
- 54.00 Top of slope, Descend gradual SW. slope.
- 62.30 Wash, in draw, 10 lks. wide, 1 $\frac{1}{2}$ ft. deep, course SE.
- 65.50 Dim road brs. N. and S.
- 80.00 The cor. of secs. 4, 5, 8 and 9.
- Land, rolling, SE. drainage.
- No timber.
- Soil, sandy and rocky, 3rd rate.
- Undergrowth, scattering low brush. Fair grass.

- N. 0° 2' W. on a random line, bet. secs. 4 and 5.
- 40.00 Set temp. $\frac{1}{4}$ sec. cor.
- 82.08 Intersect N. bdy. of Tp., 49 lks. W. of the reestablished cor. of secs. 4 and 5, hereinbefore described.
- Thence,
- S. 0° 19' W., on a true line, bet. secs. 4 and 5.
- Over rolling land, thru scattering undergrowth.
- 21.08 Dim road brs. SE. and NW.
- 31.88 Wash, in draw, 12 lks. wide, 2 ft. deep, course E. Ascend

3630. Completion of Subdivision of Township 18 North, Range 12 East.

Chains.

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

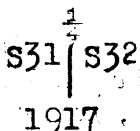


and raised a mound of stone, 2 ft. base, 1 1/2 ft. high, W of cor.

44.08 Top of slope. Descend 20 ft. to
48.48 Draw, course NE. Ascend N. slope, 40 ft.
82.08 The cor. of secs. 4, 5, 8 and 9.
Land, rolling NE. drainage.
Soil, shallow and sandy and rocky, 2nd and 3rd rate.
No timber.
Undergrowth, low brush.
Fair growth of grass.

From the reestablished cor. of secs. 5, 6, 31 and 32, on S. bdy. of Tp., described in Book "I," N. 0° 3' W., bet. secs. 31 and 32.

Over rolling land, thru scattering timber and undergrowth.
40.00 Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked on brass cap,

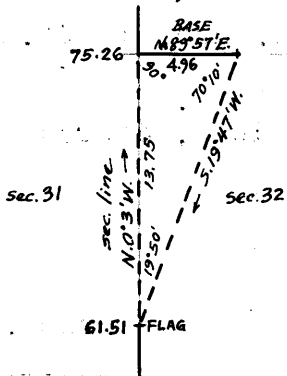


from which,

- A cedar, 18 ins. in diam., brs. S. 29 1/2° E., 154 lks. dist., marked $\frac{1}{4}$ S 32 B T.
- A cedar, 14 ins. in diam., brs. S. 2 1/2° W., 153 lks. dist., marked $\frac{1}{4}$ S 31 B T.

43.50 Descend N. slope, 80 ft. to
47.50 SE. or right rim of canyon, brs. NE. and SW. Descend 130 ft. on steep NW. slope of canyon wall.
49.70 Enter bottom of canyon, course N. from SW. Thence down bottom of canyon.
55.00 Leave bottom of canyon, course NE, to junction with bottom of Grapevine Canyon in NW. 1/4 of sec. 32.
Ascend 75 ft. on steep SE. slope of NW. wall of canyon.
61.10 NW. or left rim of above described canyon, brs. E. and SW. Ascend 50 ft. to

61.51 S. or right rim of Grapevine Canyon, brs. E. and W. Measurement across said canyon by chaining being impracticable, triangulate as follows:



Leave flag on sec. line at this point. Measure a base N. 89° 57' E., 4.96 chs. dist. from a point on sec. line on N. or left rim of canyon:

From E. end of base, flag brs. S. 19° 47' W.

Included angles are 70° 10', 19° 50' and 90° 00', the sum of which is 180° 00'.

Dist. triangulated on sec. line is therefore obtained by tang. 70° 10'

x base or 2.77254 x 4.96 = 13.75 chs. Dist. on sec. line from cor. of secs. 5, 6, 31 and 32 on S. bdy. of Tp., to triangulation point on N. rim of canyon is therefore 61.51 chs. + 13.75 chs. = 75.26 chs.

71.00 (Approximate) Bottom of Grapevine Canyon, 175 ft. below rim. Stream of running muddy water, 80 lks. wide, 4 ft. deep, course E. Ascend steep S. slope of N. wall of canyon.

75.26 Triangulation point on N. or left rim of canyon, bearing E. and W.

Completion of subdivision of Township 18 North, Range 12 East. 31 37

Chains.

Continue measurement on sec. line by chaining. Over rolling land.

80.00 Set an iron post, 3 ft. long, 2 ins. in diam., 24 ins. in the ground, for cor. of secs. 29, 30, 31 and 32, marked on brass cap,

T18N	R12E
S30	S29
S31	S32
1917	

from which,

A pinyon, 8 ins. in diam., brs. N. 26° E., 76 lks. dist., marked T18N R12E S29 BT.

A pinyon, 6 ins. in diam., brs. S. 72° E., 31 lks. dist., marked T18N R12E S32 BT.

A pinyon, 8 ins. in diam., brs. N. 78 1/2° W., 113 lks. dist., marked T18N R12E S30 BT.

No other trees within limits. Raise a mound of stone, 2 ft. base, 1 1/2 ft. high, W. of cor.

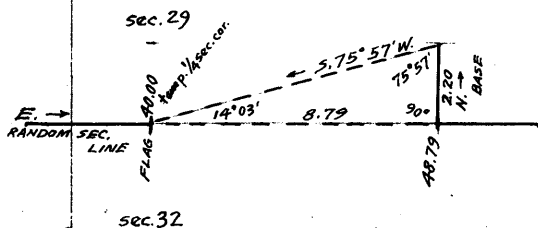
Land, rolling.

Soil, rocky, 4th rate.

Timber, scattering cedar and pinyon.

Undergrowth, scattering short brush. Poor growth of grass.

40.00 East, on random line, bet. secs. 29 and 32. Set temp. sec. cor. This point is on N. wall of Grapevine Canyon, near rim thereof. The line E. of this point passes over bend in canyon wall, making chain measurement impracticable; therefore, triangulate as follows:



Leave flag at this point. Measure a base N. 2.20 chs. from point on random line on N. or left rim of canyon on opposite side of bend. From N. end of base, flag brs. S. 75° 57' W.

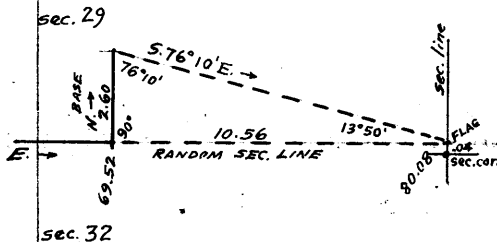
Included angles are 75° 57', 90° 00' and 14° 03', the sum of which is 180° 00'.

Triangulated measurement is therefore obtained by tang. 75° 57' x base or 3.99592 x 2.20 = 8.79 chs., which added to 40.00 chs. =

48.79 Triangulation point on N. or left rim of canyon, bearing NW. and SE.

Continue measurement on random line east, by chaining.

69.52 N. or left rim of Grapevine Canyon, brs. NE. and SW. The line E. of this point crosses said canyon, making chain measurement impracticable. Therefore, triangulate as follows:



Measure a base, North 2.60 chs. Set flag E. of this point, and 4 lks. N. of cor. of secs. 28, 29, 32 and 33.

From N. end of base, flag brs. S. 76° 10' E.

Included angles are 76° 10', 13° 50' and 90° 00', the sum of which is 180° 00'.

Triangulated dist. is therefore obtained by tang. 76° 10' x base

or 4.06107 x 2.60 = 10.56 chs., which added to 69.52 chs. =

80.08 Flag point of above described triangulation, 4 lks. N. of cor. of secs. 28, 29, 32 and 33.

Thence,

N. 89° 58' W., on true line, bet. secs. 29 and 32.

Measurement across Grapevine Canyon by triangulation; hereinafter described.

5.00 (Approximate) Bottom of Grapevine Canyon, 175 ft. below rim. Stream of running water, 60 lks. wide, 5 ft. deep, course NE.

38 32. Completion of Subdivision of Township 28 North, Range 12 East.

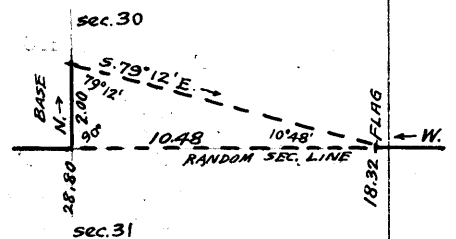
- Chains.
- 10.56 Triangulation point on N. or left rim of Grapevine Canyon, bearing NE. and SW.
Continue measurement by chaining, over rolling land, thru. scattering timber.
 - 31.29 N. or left rim of Grapevine Canyon, brs. NW. and SE. Thence across bend in N. wall of canyon, measurement by triangulation, hereinbefore described.
 - 35.00 (Approximate) Bottom of Grapevine Canyon in bend, course SE. from SW.
 - 40.04 A point on N. wall of canyon, near N. rim.
Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked on brass cap,
- $$\frac{1}{4} \text{ S } 29$$

$$\text{S } 32$$
- and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, N. of cor.
 - Continue measurement by chaining.
Ascend on SE. slope of canyon wall.
 - 42.68 N. or left rim of Grapevine Canyon, brs. NE. and SW.
 - 47.00 E. rim of small canyon, brs. NW. and SE. joining rim of Grapevine Canyon, a short dist. S. of line.
 - 49.93 Bottom of canyon, 70 ft. deep, course SE. to Junction with Grapevine Canyon.
 - 53.00 W. rim of canyon, brs. NW. and SE. Ascend gradually.
 - 64.00 Ascend 35 ft. to
 - 75.08 Top of ascent, brs. NW. and SE. Descend 30 ft. on SW. slope, to
 - 80.08 The cor. of secs. 29, 30, 31 and 32:
Land, rolling, except where broken by canyons.
Soil, rocky, 3rd rate.
Timber, scattering cedar.
Undergrowth, none.

West, on random line, bet. secs. 30 and 31.

18.32 N. or left rim of Grapevine Canyon, brs. NW. and SE. The line west from this point passes over bend in said canyon from SW. to SE., making chain measurement impracticable; therefore, triangulate as follows:

Leave flag at this point.
Measure a base N. 2.00 chs. from point on random line, on N. or left rim of canyon on opposite side of bend.



From N. end of base, flag brs. S. 79° 12' E.
Included angles are 79°12', 10°48', and 90°00', the sum of which is 180°00'.

Dist. triangulated on random line is therefore obtained by tang. 79°12' x base or 5.24218 x 2.00 = 10.48 chs., which added to 18.32 chs. =

- 28.80 Triangulation point on N. or left rim of Grapevine Canyon brs. NE. and SW.
Continue measurement, west on random line.
- 40.00 Set temp. $\frac{1}{4}$ sec. cor.
- 76.11 Intersect the reestablished cor. of secs. 30 and 31 on W. bdy. of $\frac{1}{4}$ sp. hereinbefore described.
Thence,
East, on true line, bet. secs. 30 and 31.
Over rolling land, thru. scattering timber. Descend.
- 12.36 Draw, course SE. into Grapevine Canyon. Ascend 55 ft.
- 24.36 Top of ascent, brs. NW. and SE. Descend 20 ft. to
- 28.00 W. rim of small canyon, brs. NW. and SE. Descend.
- 31.86 Bottom of canyon, 50 ft. deep, course SE. into Grapevine Canyon. Ascend.
- 35.00 E. rim of above described canyon, brs. NW. and SE. Ascend gradually.
- 36.11 Set an iron post, 3 ft. long, 1 in. in diam., on surface rock, in a mound of stone, for $\frac{1}{4}$ sec. cor., marked on

Completion of subdivision of Township 18 North, Range 12 East. 33.39

Chains.

brass cap,

S 30
S 31
1917

from which,

A pinyon, 12 ins. in diam., brs. N. 65 1/2° W., 247 lks. dist., mark "1/4 S 30 BT."

A pinyon, 8 ins. in diam., brs. S. 80 3/4° E., 125 lks. dist., mark "1/4 S 31 BT."

Ascend gradual SW. slope.

- 37.11 Top of ascent, brs. NW. and SE. Descend gradually to
- 47.31 N. or left rim of Grapevine Canyon, brs. NE. and SW. Thence across bend in N. wall of canyon, measurement by triangulation, hereinbefore described.
- 53.00 (Approximate) bottom of Grapevine Canyon, 150 ft. below rim. Stream of running water 80 lks. wide, 4 ft. deep, course SE. from SW. Ascend steep SW. slope.
- 57.79 Flag point of triangulation on N. or left rim of Grapevine Canyon on E. side of bend. Continue measurement by chaining.
- 66.81 N. or left rim of Grapevine Canyon, brs. NE. and SW. Thence across canyon wall in bend of same.
- 75.11 N. or left rim of Grapevine Canyon, brs. NW. and SE. Ascend gradually.
- 76.11 The cor. of secs. 29, 30, 31 and 32. Land, rolling except where broken by canyons. Soil, rocky, 3rd rate. Timber, scattering cedar and pinyon. Undergrowth, none.

N. 0° 3' W., bet. secs. 29 and 30.

Over rolling land, thru scattering timber and undergrowth. Ascend SW. slope, 25 ft. to

- 3.50 Top of slope. Thence over gently rolling land.
- 40.00 Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in the ground, for 1/4 sec. cor. marked on brass cap,

S 30 | S 29
1917

- 80.00 dig pits, 18x18x12 ins. N. & S. of post, 3 ft. dist. Set an iron post, 3 ft. long, 2 ins. in diam., 12 ins. in the ground, in a mound of stone, for cor. of secs. 19, 20, 29 and 30, marked on brass cap,

T 18 N | R 12 E
S 19 | S 20
S 30 | S 29
1917

from which,

A cedar, 8 ins. in diam., brs. N. 23 1/4° E., 294 lks. dist., marked T 18 N R 12 E S 20 BT.

A cedar, 8 ins. in diam., brs. S. 75 1/2° E., 375 lks. dist., marked T 18 N R 12 E S 29 BT.

A cedar, 10 ins. in diam., brs. S. 41 1/2° W., 250 lks. dist., marked T 18 N R 12 E S 30 BT.

A cedar, 12 ins. in diam., brs. N. 22 3/4° W., 451 lks. dist., marked T 18 N R 12 E S 19 BT.

Land, rolling, nearly level. Soil, gravelly, 2nd rate.

Timber, scattering cedar.

Undergrowth, sage brush; poor growth of grass.

- 40.00 S. 89° 58' E., on a random line, bet. secs. 20 and 29. Set temp. 1/4 sec. cor.
- 79.90 Intersect N. and S. line, 12 lks. S. of cor. of secs. 20, 21, 28 and 29. Thence S. 89° 57' W., on a true line, bet. secs. 20 and 29. Over rolling land, thru scattering timber and undergrowth.
- 14.90 Ascend gradual slope.
- 23.70 Descend NW. slope, 40 ft. to

102

40 34. Completion of subdivision of Township 18 North, Range 12 East.

Chains
 30.30 Draw, course NE. Ascend SE. slope, 20 ft. to
 37.10 Thence over rolling land.
 39.95 Set an iron post, 3 ft. long, 1 in. in diam., 6 ins. in the
 ground, in a mound of stone, for $\frac{1}{4}$ sec. cor., marked on
 brass cap,

$$\begin{array}{r} \frac{1}{4} S 20 \\ S 29 \\ 1917 \end{array}$$
 from which,
 A pinyon, 8 ins. in diam., brs. N. $82\frac{3}{4}^{\circ}$ E., 185 lks.
 dist., marked $\frac{1}{4}$ S 20 BT.
 A cedar, 14 ins. in diam., brs. S. $28\frac{3}{4}^{\circ}$ E., 106 lks.
 dist., marked $\frac{1}{4}$ S 29 BT.
 54.90 Draw, course SE.
 79.90 The cor. of secs. 19, 20, 29 and 30.
 Land, rolling, NE. drainage. Soil, sandy, rocky, 3rd rate.
 Timber, scattering cedar and pinyon.
 Undergrowth, sage brush.

 West, on a random line, bet. secs. 19 and 30.
 40.00 Set temp. $\frac{1}{4}$ sec. cor.
 76.15 Intersect W. bdy. of Tp. 2 lks. S. of the reestablished cor.
 of secs. 19 and 30, hereinbefore described.
 Thence,
 S. $89^{\circ}59'$ E., on a true line, bet. secs. 19 and 30.
 Over rolling land, thru scattering timber and undergrowth.
 36.15 Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in
 the ground, for $\frac{1}{4}$ sec. cor., marked on brass cap,

$$\begin{array}{r} \frac{1}{4} S 19 \\ S 30 \\ 1917 \end{array}$$
 from which,
 A cedar, 10 ins. in diam., brs. N. $30\frac{1}{2}^{\circ}$ E., 185 lks.
 dist., marked $\frac{1}{4}$ S 19 B. T.
 A cedar, 10 ins. in diam., brs. S. $33\frac{1}{4}^{\circ}$ E., 205 lks.
 dist., marked $\frac{1}{4}$ S 30 B. T.
 76.15 The cor. of secs. 19, 20, 29 and 30.
 Land, rolling, NE. drainage.
 Timber, scattering cedar.
 Soil, sandy and rocky, 3rd rate.
 Undergrowth, scattering sage brush.

 N. $0^{\circ} 3'$ W., bet. secs. 19 and 20.
 Over rolling land, thru scattering timber and undergrowth.
 27.00 Descend N. slope, 40 ft. to
 36.50 Draw, course E. wash, in draw, 15 lks. wide, 4 ft. deep,
 course E. Ascend gradual NW. slope.
 40.00 Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in the
 ground, for $\frac{1}{4}$ sec. cor., marked on brass cap,

$$\begin{array}{r} S 19 \quad S 20 \\ 1917 \end{array}$$
 from which,
 A cedar, 5 ins. in diam., brs. N. $64\frac{3}{4}^{\circ}$ E., 40 lks. dist.,
 marked $\frac{1}{4}$ S 20 BT.
 A cedar, 14 ins. in diam., brs. N. $84\frac{3}{4}^{\circ}$ W., 270 lks.
 dist., marked $\frac{1}{4}$ S 19 B. T.
 51.00 Top of slope; descend gradual slope to
 63.80 Draw, course SE.
 80.00 Set an iron post, 3 ft. long, 2 ins. in diam., 8 ins. in the
 ground, in a mound of stone, for cor. of secs. 17, 18, 19
 and 20, marked on brass cap,

$$\begin{array}{r} T18N \quad R12E \\ S18 \quad S17 \\ S19 \quad S20 \\ 1917 \end{array}$$
 and raise mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor.
 Land, rolling, SE. drainage. Soil, sandy and rocky, 3rd rate.
 Timber, scattering cedar.
 Undergrowth, scattering sage brush.

Completion of Subdivision of T. 18 N., R. 12 E. 35 41

Chains

40.00 N. 89° 57' E. on a random line bet. secs. 17 and 20.
 Set temp. $\frac{1}{4}$ sec. cor.
 79.96 Intersect N. and S. line, 10 lks. S. of the cor. of secs.
 16, 17, 20 and 21.
 Thence
 S. 89° 53' W. on a true line bet. secs. 17 and 20.
 Over rolling land, through scattering timber and under-
 growth.
 2.95 Desc. NW. slope, 30 ft. to
 8.95 Wash, 10 lks. wide, 2 ft. deep, in draw, course NE. Asc.
 40 ft. to
 29.95 Top of slope.
 39.98 Set an iron post, 3 ft. long, 1 in. diam., 10 ins. in the
 ground, in a mound of stone, for $\frac{1}{4}$ sec. cor., mkd. on
 brass cap

$\frac{1}{4}$ S 17
 $\frac{1}{4}$ S 20
 1917

and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high,
 N. of cor.
 79.96 The cor. of secs. 17, 18, 19 and 20.
 Land, rolling, NE. slope.
 Soil, sandy and rocky, 3rd rate.
 Timber, scattering cedar.
 Undergrowth, scattering low brush.

40.00 N. 89° 59' W. on a random line bet. secs. 18 and 19.
 Set temp. $\frac{1}{4}$ sec. cor.
 75.86 Intersect W. bdy. of Tp., 7 lks. N. of the reestablished
 cor. of secs. 18 and 19, hereinbefore described.
 Thence
 N. 89° 58' E. on a true line bet. secs. 18 and 19.
 Over rolling land, through scattering timber and under-
 growth.
 35.86 Set an iron post, 3 ft. long, 1 in. diam., 12 ins. in the
 ground, in a mound of stone, for $\frac{1}{4}$ sec. cor., mkd. on
 brass cap

$\frac{1}{4}$ S 18
 $\frac{1}{4}$ S 19
 1917

and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high,
 N. of cor.
 45.26 Draw, course SE.
 75.86 The cor. of secs. 17, 18, 19 and 20.
 Land, rolling, SE. drainage.
 Soil, sandy and rocky, 3rd rate.
 Timber, scattering cedar.
 Undergrowth, scattering sagebrush and algerita.

40.00 N. 0° 3' W. bet. secs. 17 and 18.
 Over gently rolling land, through scattering undergrowth.
 Set an iron post, 3 ft. long, 1 in. diam., 12 ins. in the
 ground, in a mound of stone, for $\frac{1}{4}$ sec. cor., mkd. 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.

Completion of Subdivision of T. 18 N. R. 12 E.

Chains
80.00

Set an iron post, 3 ft. long, 2 ins. diam., 24 ins. in the ground, for cor. of secs. 7, 8, 17 and 18, mkd. on brass cap

T18N R12E
S 7 | S 8
S18 | S17
1917

and raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor.
Land, gently rolling, NE. drainage.
Soil, rocky, 3rd rate.
No timber.
Undergrowth, scattering sagebrush.

40.00
80.14

N. 89° 53' E. on a random line bet. secs. 8 and 17.
Set temp. ¼ sec. cor.
Intersect N. and S. line, 3 lks. N. of cor. of secs. 8, 9, 16 and 17.

Thence
S. 89° 54' W. on a true line bet. secs. 8 and 17.
Over rolling land, through scattering undergrowth.

26.65
40.07

Draw, course NE.
Set an iron post, 3 ft. long, 1 in. diam., 18 ins. in the ground, in a mound of stone, for ¼ sec. cor., mkd. on brass cap

S 8
S 17
1917

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

73.45
80.14

Draw, course NW. Asc. gradual slope.
The cor. of secs. 7, 8, 17 and 18.
Land, rolling.
Soil, rocky, 3rd rate.
No timber.
Undergrowth, scattering sagebrush.

40.00
75.90

S. 89° 58' W. on a random line bet. secs. 7 and 18.
Set temp. ¼ sec. cor.
Intersect W. bdy. of Tp., 9 lks. S. of the reestablished cor. of secs. 7 and 18, hereinbefore described.

Thence
S. 89° 58' E. on a true line bet. secs. 7 and 18.
Over rolling land, through scattering undergrowth.

28.40
35.90

Desc. SE. slope, 40 ft.
Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the ground, for ¼ sec. cor., mkd. on brass cap

S 7
S 18
1917

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

37.30
43.20
58.80
75.90

Draw, course NE.
Same draw, course SE.
Same draw, course NE. Asc. gradual slope, 30 ft.
The cor. of secs. 7, 8, 17 and 18.
Land, rolling, NE. drainage.
Soil, rocky, 3rd rate.
No timber.
Undergrowth, scattering sagebrush.---Fair growth of grass.

Chains

N. 0° 3' W., bet. secs. 7 and 8.
 Over rolling land, thru scattering undergrowth.
 8.30 Descend N. slope, 40 ft. to
 15.40 Wash, in draw, 10 lks. wide, 1 ft. deep, course NE. Ascend
 S. slope, 50 ft. to
 22.00 Top of slope, thence over rolling land.
 40.00 Set an iron post, 3 ft. long, 1 in. in diam., 10 ins. in
 the ground, in a mound of stone, for $\frac{1}{4}$ sec. cor., marked
 on brass cap,

$\frac{1}{4}$
 S 7 | S 8
 1917

and raise a mound of stone, 2 ft. base, 1 $\frac{1}{2}$ ft. high, W.
 of cor.
 80.00 Set an iron post, 3 ft. long, 2 ins. in diam., 6 ins. in the
 ground, in a mound of stone, for con. of secs. 5, 6, 7 and
 8, marked on brass cap,

T18N | R12E
 S 6 | S 5
 S 7 | S 8
 1917

and raise a mound of stone, 2 ft. base, 1 $\frac{1}{2}$ ft. high, W.
 of cor.
 Land, rolling.
 Soil, rocky, 3rd rate.
 No timber.
 Undergrowth, scattering sage brush.

N. 89° 54' E., on a random line, bet. secs. 5 and 8.
 40.00 Set temp. $\frac{1}{4}$ sec. cor.
 80.20 Intersect N. and S. line, 12 lks. S. of the cor. of secs.
 4, 5, 8 and 9.
 Thence,
 S. 89° 49' W., on a true line, bet. secs. 5 and 8.
 Over rolling land, thru scattering undergrowth.
 15.00 East or right rim of canyon, brs. NE. and SW. Descend 40 ft.
 to
 21.50 Bottom of canyon, course NE. Ascend 70 ft. to
 30.00 W. or left rim of canyon, brs. NE. and SW.
 40.10 Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in the
 ground, for $\frac{1}{4}$ sec. cor., marked on brass cap,

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

and raise a mound of stone, 2 ft. base, 1 $\frac{1}{2}$ ft. high, N.
 of cor.
 80.20 The cor. of secs. 5, 6, 7 and 8.
 Land, rolling.
 Soil, sandy and rocky, 3rd rate.
 No timber.
 Undergrowth, scattering sagebrush.
 Fair growth of grass.

N. 89° 58' W., on a random line, bet. secs. 6 and 7.
 40.00 Set temp. $\frac{1}{4}$ sec. cor.
 75.98 Intersect W. bdy. of Tp., 33 lks. N. of the reestablished
 cor. of secs. 6 and 7, hereinbefore described.
 Thence,
 N. 89° 47' E., on a true line, bet. secs. 6 and 7.
 Over rolling land, through scattering undergrowth.
 19.00 Draw, course NW.
 35.98 Set an iron post, 3 ft. long, 1 in. in diam., 10 ins. in
 the ground, in a mound of stone, for $\frac{1}{4}$ sec. cor., marked
 on brass cap,

44 33. Completion of Subdivision of Township 18 North, Range 12 East.

Chains.

S 6
S 7
1917

75.98 and raise a mound of stone, 2 ft. base, 1½ ft. high, N. of cor.
the cor. of secs. 5, 6, 7 and 8.
Land, rolling, NW. slope.
Soil, rocky, 3rd rate.
No timber.
Undergrowth, scattering sagebrush.

40.00 N. 0° 3' W., on a random line, bet. secs. 5 and 6.
Set temp. ¼ sec. cor.
82.44 Intersect N. bdy. of Tp. 50 lks. W. of the reestablished cor. of secs. 5 and 6, hereinbefore described.
Thence,
S. 0° 18' W., on a true line, bet. secs. 5 and 6.
Over rolling land, thru. scattering undergrowth.
2.64 Road brs. NE. and SW.
42.44 Set an iron post, 3 ft. long, 1 in. in diam., 18 ins. in the ground, in a mound of stone, for ¼ sec. cor., marked on brass cap,

¼
S 6 | S 5
1917

82.44 and raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor.
The cor. of secs. 5, 6, 7 and 8.
Land, rolling, NE. drainage.
No timber.
Undergrowth, low brush.
Soil, sandy and rocky, and 3rd rate.

GENERAL DESCRIPTION.

This township is rolling in the northern part, and hilly and broken in the southern part along the Grapevine Canyon.
The soil ranges from 1st to 3rd rate, is covered with a scattering growth of bunch grass. The south half of the township is covered with a scattering growth of cedar timber.
The only water in the township was found in the Grapevine and Diablo Canyons, which cross the township in an easterly and northerly direction.
The soil is underlaid at a depth of from a few inches to about two feet over the greater part of the township by limestone ledges.
No minerals were found in the township, and no settlers are residing on that portion of the township surveyed in this group.

Boundaries of Township 18 North, Range 12 East
 Latitudes, Departures and Closing Errors

Line Designated	True course	Dist.	Latitudes		Departures	
			N.	S.	E.	W.
		chs.	chs.	chs.	chs.	chs.
South boundary	S. 89° 49' W.	40.17		.13		40.17
	West	160.32				160.32
	S. 89° 58' W.	40.09		.02		40.09
	West	236.31				236.31
West Boundary	N. 0° 07' E.	28.85	28.85		.06	
	N. 0° 02' E.	79.95	79.95		.05	
	N. 0° 04' E.	40.09	40.09		.05	
	N. 0° 02' E.	40.01	40.01		.02	
	N. 0° 09' E.	40.06	40.06		.10	
	North	40.07	40.07			
	N. 0° 02' E.	40.07	40.07		.02	
	N. 0° 01' E.	40.03	40.03		.01	
	N. 0° 02' E.	120.26	120.26		.07	
	North	13.35	13.35			
North Boundary	N. 89° 56' E.	79.75	.09		79.75	
	East	40.18			40.18	
	N. 89° 58' E.	39.65	.02		39.65	
	S. 89° 58' E.	39.94		.02	39.94	
	N. 89° 58' E.	40.22	.02		40.22	
	N. 89° 59' E.	79.73	.02		79.73	
	S. 89° 58' E.	40.07		.02	40.07	
	N. 89° 57' E.	39.90	.03		39.90	
N. 89° 59' E.	77.09	.02		77.09		
East Boundary (3rd Guide Mer E.)	South	160.53		160.53		
	S. 0° 02' W.	40.19		40.19		.02
	S. 0° 03' W.	40.28		40.28		.04
	S. 0° 02' W.	40.18		40.18		.02
	S. 0° 01' E.	40.07		40.07	.01	
	S. 0° 04' W.	40.18		40.18		.05
	S. 0° 03' W.	80.42		80.42		.07
	S. 0° 03' E.	40.23		40.23	.04	
Convergency					0.51	
Totals			482.94	482.27	477.47	477.09
			482.27		477.09	
Error in Latitude			0.67			
Error in Departure					0.38	

Book "J"
 Group 79, Arizona.
 Township 18 North, Range 12 East.

DATE DIAGRAM.

RESURVEY

RESURVEY

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

3rd Guide Meridian E.

Retracements, resurveys and surveys executed on dates shown above by Sidney E. Blout, U.S. Surveyor.

CERTIFICATE OF UNITED STATES SURVEYOR.

I, Sidney E. Blout, U. S. Surveyor, hereby certify upon honor that, in pursuance of special instructions received from the U. S. Surveyor General, for Group 79, Arizona, bearing date of the 1st day of December, 1916, 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~~ **retraced** all those parts or portions of the Subdivision lines; Resurveyed all those parts or portions of the West, boundary, North boundary and the subdivision lines; and surveyed all those parts or portions of the subdivision lines, all of TOWNSHIP 18 NORTH, RANGE 12 EAST, of the Gila and Salt River Base and Meridian, in the State of Arizona, which are represented in the foregoing field notes ^{and by diagram on page 46 hereof} ~~as~~ having been executed by me, and under my direction; and that all the corners of **retracement, resurvey and survey** ~~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 79, Arizona, and in the specific manner described in the field notes, and that the foregoing are the original field notes of such ~~survey~~ **retracement, resurvey and survey**.

Sidney E. Blout
U. S. Surveyor.

APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Phoenix, Arizona, June 12, 1920.

The foregoing field notes of the ~~survey~~ **retracement of part of the Subdivision lines, the Resurvey of the West boundary, North boundary, and part of the Subdivision lines, and the Survey of part of the Subdivision lines, all of** TOWNSHIP 18 NORTH, RANGE 12 EAST, of the Gila and Salt River Base and Meridian, in the State of Arizona,

executed by Sidney E. Blout, U.S. Surveyor,

under ~~his~~ special instructions dated Dec. 1, 1916, for Group 79, Arizona, ~~for~~ ^{retracements} having been critically examined, and the necessary corrections and explanations made, the said field notes, and the ~~surveys~~ **retracements, resurveys and surveys** they describe, are hereby approved.

Frank D. Frost
U. S. Surveyor General.

I certify that the foregoing transcript of the field notes of the above described ~~surveys in~~ **retracements, resurveys and surveys in Book "J" of group 79, Arizona,** has been correctly copied from the original notes on file in this office.

U. S. Surveyor General.