

3540

"C"

4-679

BOOK 3540

FIELD NOTES

OF THE RESURVEY OF

PART OF THE SOUTH BOUNDARY

AND

PART OF THE SUBDIVISION LINES

AND OF THE SURVEY OF

PART OF THE SUBDIVISION LINES

OF

TOWNSHIP 18 NORTH, RANGE 17 EAST

of the Gila and Salt River Base and Meridian,

In the State of ARIZONA

EXECUTED BY

Sidney E. Blout, U.S. Cadastral Engineer

In the capacity of U. S. Surveyor, under Special Instructions dated Sept. 28, 1918, issued by the United States Surveyor General to govern surveys included in Group No. 93, which were approved by the Commissioner of the General Land Office, October 24, 1918, and Assignment Instructions dated April 1, 1920.

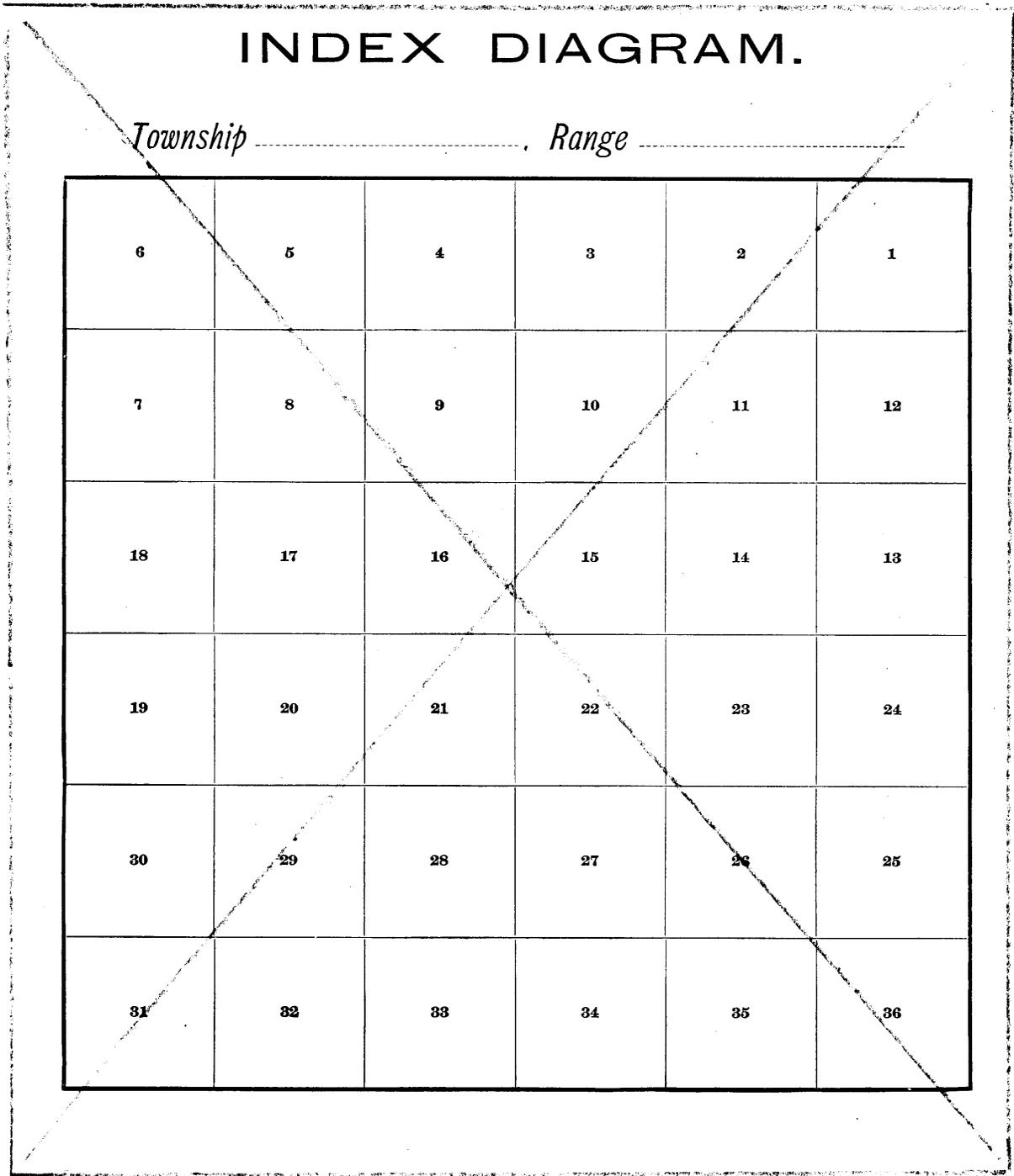
Resurvey and Survey commenced November 5, 1920.

Resurvey and Survey completed November 9, 1920.

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See Special Index Diagram.



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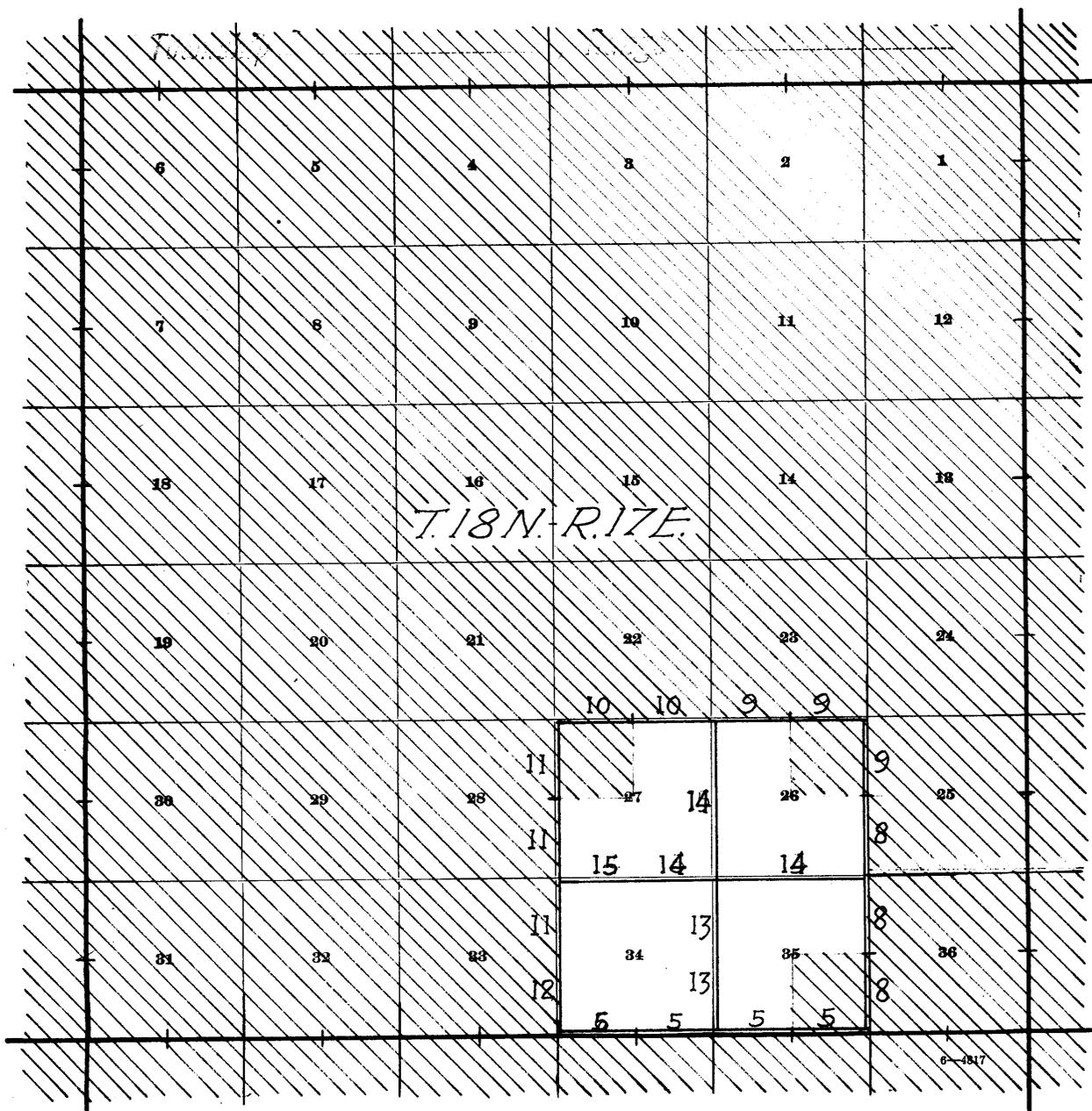
Book "C"

Group 93 - Arizona

BOOK 3540

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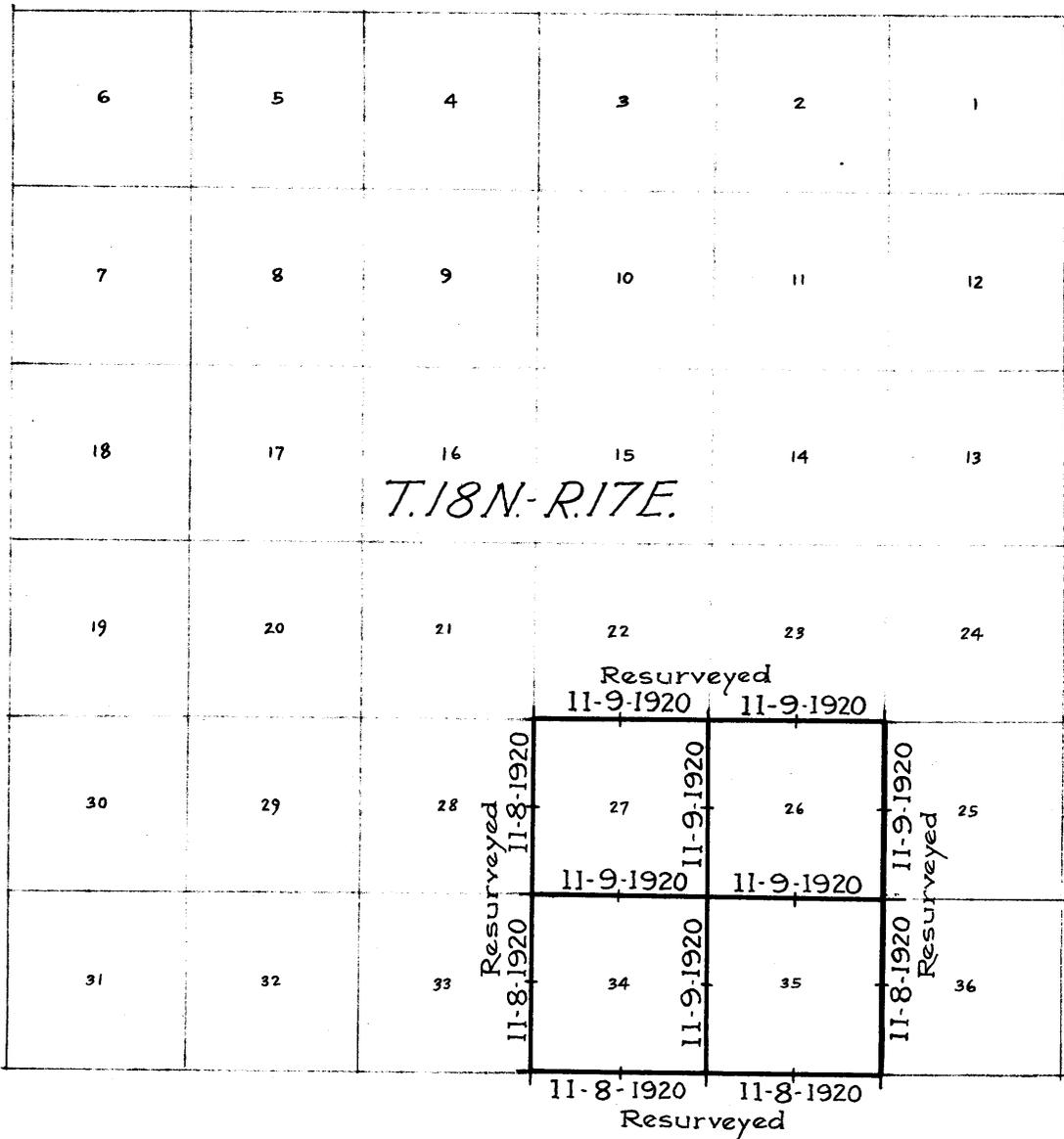
INDEX DIAGRAM.



- Lines surveyed under this group.
- == Lines resurveyed under this group.
- Accepted surveys.
- /// Areas surveyed as per accepted plats on file.

BOOK 3540

DATE DIAGRAM



Retracements for Resurveys executed on November 6, 1920.

Resurveys and Surveys executed on dates shown on above diagram.
by Sidney E. Blout, U.S. Cadastral Engineer.

Resurveys and surveys, hereinafter described, executed on dates shown on diagram on page 2 hereof. by Sidney E. Blout, U.S. Cadastral Engineer, using a Buff light mountain transit No. 9984 with U-shaped standards, 4½ in. horizontal circle, and improved Smith solar attachment. All azimuth determinations are accomplished with the solar attachment, except the special observations on Polaris for meridian, upon which to test the solar attachment, as stated in the field notes.

The instrument was examined, tested on the Federal Building meridian at Phoenix, Arizona, April 8, 1920, found correct and was approved by the Assistant Supervisor of Surveys for Arizona, conditional upon satisfactory field tests.

All measurements are made with a Lufkin 5-chain steel tape compared with a Chesterman standard steel tape and found correct. The measurements are made on the slope, the vertical angle determined, and the slope measurements properly reduced to true horizontal distances.

Preliminary to beginning the surveys in this township examine the adjustments of the transit and correct all level and collimation errors, then to test the solar apparatus by comparing its indications, resulting from solar observations made on the sun during a.m. and p.m. hours with a meridian established by observation on Polaris, Proceed as follows:

November 5, 1920: In camp, 20.00 chs. E. of the ¼ sec. cor. of secs. 27 and 28, T.18 N., R.17 E., Gila and Salt River meridian in latitude 34°55'36"N., longitude 110°32'W., at 4h 29m 42s p.m. l.m.t., observe Polaris at eastern elongation, making four observations, two each with the telescope in direct and reversed positions and mark the mean point in the line thus determined, on a peg driven firmly in the ground 5 chains N.

Azimuth of Polaris at eastern elongation = 1°21'42".

November 6, 1920; Lay off the azimuth of Polaris 1°21'43" to the west and mark the meridian thus determined by a nail driven in a stake set firmly in the ground 5 chs. N.

At 8h 00m a.m., app.t., set off 34°55½'N., on the latitude arc, 15°59'S., on the declination arc and determine a meridian with the solar and mark a point thereof by a tally pin driven in the stake already set 5 chs. N. on which the solar meridian falls 1' in angular measure east of the meridian established by the Polaris observation.

At the cor. of secs. 1, 2, 35 and 36 on S. bdy. of Tp., set off 16°03'S., on the decl. arc and at apparent noon Nov. 6, observe the sun on the meridian, the resulting latitude being 34°54'20"N.

At camp at 1h 30m p.m., app.t., set off 34°55½'N., on the latitude arc, 16°04'S., on the decl. arc and determine a meridian with the solar and mark a point thereof by a nail driven in the stake already set 5 chs. N. This point falls 1½'W. of the meridian established by the Polaris observation.

The solar apparatus by a.m. and p.m. observations defines positions from meridians, respectively about 1' E. and 1½'W. of the meridian established by the polaris observations, therefore conclude that the adjustments of the instrument are satisfactory.

Resurvey of Part of the South Boundary
of T.18 N.,R.17 E.

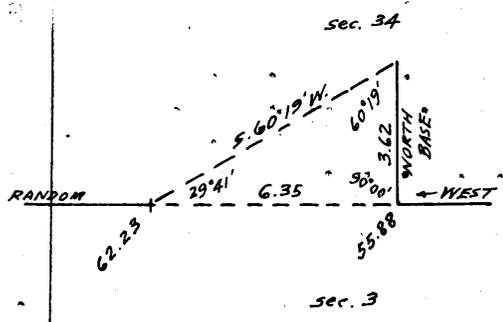
Chains This township boundary, with the exception of that portion S. of sec. 34 and W. $\frac{1}{2}$ of sec. 35, was surveyed in 1879 by John L. Harris, U.S.D.S. A retracement of the Harris survey and a survey S. of sec. 34 and W. $\frac{1}{2}$ of sec. 35 was executed by M.N. Grant, U.S.D.S. in 1883. No subsequent retracements or resurveys are of record.

RETRACEMENT FOR RESURVEY

From the original cor. of secs. 1, 2, 35 and 36, Ts. 17 and 18 N., R. 17 E., hereinafter described,
West, on a random line bet. secs. 2 and 35.
40.00 Make diligent search in this vicinity but can find no evidence of the original $\frac{1}{4}$ sec. cor.
Set temp. cor.
80.00 Make diligent search in this vicinity but can find no trace of the original cor. of secs. 2, 3, 34 and 35.
Set temp. cor.

Thence from temp cor. secs. 2, 3, 34 and 35,
West, on a random line bet. secs. 3 and 34.
40.00 Make diligent search in this vicinity but can find no trace of the original $\frac{1}{4}$ sec. cor. of secs. 3 and 34.
Set temp. cor.

55588 East or Right rim of Chevalon Canyon, bears N.20°W. and S.20°E. Discontinue chain measurement and triangulate across the canyon as follows:



Measure a base North, 3.62 chs.
Set a flag on random line on West or Left rim of canyon.
From N. end of base, flag bears S.60°19'W.
Included angles are 60°19', 90°00' and 29°41', the sum of which is 180°00'
All bearings checked by direct reading of the solar and all angles checked by deflection.
Dist. on random line -- 55.88
Dist. by triangulation 6.35
Total dist. 62.23

62.23 Triangulation point on random line on West or Left rim of Chevalon Canyon.
80.84 Fall 24 lks. N. of the cor. of secs. 3, 4, 33 and 34, on S. bdy. of T.18 N., R.17 E., hereinafter described. The true course of the line bet. secs. 2 and 35 and bet. secs. 3 and 34 will be S.89°55'W. and the length of each mile will be 80.42 chs.

Resurvey

The remains of the original cor. of secs. 1, 2, 35 and 36, Ts. 17 and 18 N., R.17 E. is a mound of earth with faint traces of pits NE., SE., and NW. of mound. A cedar stake 2 $\frac{1}{2}$ ins. sqr., 2 ft. long, marked and notched as described in the record is lying on the ground alongside the mound. This is the stake originally driven in the SE. pit.
I destroy the old mound of earth and equidistant from centers of the old pits reset the old stake 12 ins. in the ground and alongside of stake set an iron post, 3 ft. long, 2 ins. in diam., 24 ins. in the ground for reestablished cor. of secs. 1, 2, 35 and 36 marked on brass cap

T18N, R17E
S 35 | S 36
S 2 | S 1

T17N
1920

Resurvey of Part of the South Boundary
of T.18 N., R.17 E.

3540

Chains

Dig pits 18 x 18 x 12 ins. one in each sec. NE., SE., SW. and NW. of post, 3 ft. dist.

Thence

S.89°55'W., on a true line bet. secs. 2 and 35.

Over rolling land, thru scattering undergrowth.

Desc. over gentle NW. slope.

12.75

Auto Highway from Winslow to Holbrook, bears SE. and NW.

28.40

Draw, 5 chs. wide, course N. Asc. gentle SE. slope.

40.21

(At proportional distance) Set an iron post, 3 ft. long, 1 in. in diam., 27 ins. in the ground, deposit stone marked with a cross (X) at base of post for 1/4 sec. cor. marked on brass cap

S 35

1/4 ----

S 2

1920

Dig pits 18 x 18 x 12

ins. E. and W. of post, 3 ft. dist.

80.42

(At proportional distance) Set an iron post, 3 ft. long, 2 ins. in diam., 27 ins. in the ground, deposit a stone marked with a cross (X) at base of post, for cor. of secs. 2, 3, 34 and 35, marked on brass cap

T18N R17E

S 34 | S 35

S 3 | S 2

T17N

1920

Pits impracticable.

Land; rolling mesa.

Soil; sandy, 2nd. and 3d. rates.

Undergrowth; sagebrush, 2 ft. high.

Timber; none.

40.21

S.89°55'W., on a true line bet. secs. 3 and 34.

Over rolling land, thru scattering undergrowth.

(At proportional distance) Set an iron post, 3 ft. long, 1 in. in diam., 10 ins. in the ground to bed rock, deposit a stone marked cross (X) at base of post, and raise a mound of stone around post, for 1/4 sec. cor. marked on brass cap

S 34

1/4 ----

S 3

1920

Raise a mound of stone,

2 ft. base, 1 1/2 ft. high N. of cor.

55.75

East rim of Chevalon Canyon, bears N.20°W. and S.20°E.

58.75

Chevalon Creek, 80 lks. wide, water 20 ft. deep, course NW.

62.00

West rim of Chevalon Canyon on perpendicular sandstone wall 100 ft. high bears N.20°W., and S.20°E. Asc. 60 ft. over E. slope through scattering cedar timber, bears N. and S.

67.00

Leave timber, bears NE. and SW.

75.85

Stony ridge, bears NE. and SW. Desc. 25 ft. over NW. slope.

80.42

Intersect the original cor. of secs. 3, 4, 33 and 34, which is a sandstone 16 x 12 x 6 ins., loosely set, marked with 3 notches on E. and W. edges.

Alongside of old stone set an iron post, 3 ft. long, 2 ins. in diam., 24 ins. in the ground for cor. of secs. 3, 4, 33 and 34 marked on brass cap

T18N R17E

S 33 | S 34

S 4 | S 3

T17N

1920

Resurvey of Part of the South Boundary
of T.18 N., R.17 E.

Chai ns

From which

A cedar, 12 ins: in diam., bears N.18 $\frac{1}{2}$ °W., 105 lks.
dist., marked TXVlllN RXVllE SXXXlll BT (old B.T.)

No other trees within limits. Raise a mound of stone,
2 ft. base, 1 $\frac{1}{2}$ ft. high W: of cor.

Land; rolling, hilly and broken.

Soil; sandy and stony, 3d. and 4th. rates.

Timber; cedar.

Undergrowth; sagebrush; 2 ft. high.

Resurvey of Part of the Subdivision Lines of
T. 18 N., R. 17 E.

Chains

RETRACEMENT FOR RESURVEY.

The subdivision lines of this township were surveyed by John L. Harris, U. S. D. S. in 1879 and no retracements or resurveys of the same are of record. From the original cor. of secs. 1, 2, 35 and 36, on S. bdy. of Tp., hereinbefore described:

40.70 North, on a random line on W. bdy. of sec. 36 (S. $\frac{1}{2}$). Fall 9 lks. E. of the original $\frac{1}{4}$ sec. cor. of secs. 35 and 36, hereinafter described. True bearing and length of S. $\frac{1}{2}$ of W. bdy. of sec. 36 are, therefore, N. 0° 08' W., 40.70 chs.

40.30 Thence, North, on a random line, on W. bdy. of sec. 36 (N. $\frac{1}{4}$) Fall 12 lks. E. of the original cor. of secs. 25, 26, 35 and 36, hereinafter described. True bearing and length of N. $\frac{1}{4}$ of W. bdy. of Sec. 36 are, therefore, N. 0° 10' W., 40.30 chs.

40.00 North, on a random line, on W. bdy. of sec. 25. Diligent search fails to reveal any trace of the original $\frac{1}{4}$ sec. cor. of secs. 25 and 26. Set temp. cor. of said secs.
Continue line and measurement.

80.60 Fall 24 lks. E. of the recognized point of the original location of the cor. of secs. 25, 24, 26 and 26, hereinafter described. True bearing and length of W. bdy. of sec. 25 are, therefore, N. 0° 10' W., 80.60 chs.

40.00 West on a random line bet. secs. 25 and 26. Diligent search fails to reveal any trace of the original $\frac{1}{4}$ sec. cor. of secs. 25 and 26. Set temp. $\frac{1}{4}$ sec. cor. of said secs.
Continue line and measurement.

80.00 Fall 19 lks. N. of the original cor. of secs. 22, 23, 26 and 27, hereinafter described. True bearing and length of line bet. secs. 25 and 26 are, therefore, S. 89° 52' W., 80.00 chs.

41.09 N. 89° 55' W. on a random line bet. secs. 22 and 27 (E. $\frac{1}{2}$) Fall 80 lks. N. of the original $\frac{1}{4}$ sec. cor. of secs. 22 and 27, hereinafter described. True bearing and length of E. $\frac{1}{2}$ of line bet. secs. 22 and 27 are, therefore, S. 88° 58' W., 41.10 chs.

41.07 Thence, N. 89° 55' W. on a random line, bet. secs. 22 and 27 (W. $\frac{1}{2}$) Fall 92 lks. S. of the original point of location of the cor. of secs. 21, 22, 27 and 28, hereinafter described. True bearing and length of W. $\frac{1}{2}$ of line bet. secs. 22 and 27 are, therefore, N. 88° 58' W. 41.08 chs.

41.08 South, on a random line, bet. secs. 27 and 28 (N. $\frac{1}{2}$). Fall 75 lks. W. of the original $\frac{1}{4}$ sec. cor. of secs. 27 and 28, hereinafter described. True bearing and length of N. $\frac{1}{2}$ of line bet. secs. 27 and 28 are, therefore S. 1° 03' E., 41.09 chs.

40.54 Thence, South, on a random line, bet. secs. 27 and 28 (S. $\frac{1}{2}$) Fall 75 lks. W. of the original cor. of secs. 27, 28, 33 and 34, hereinafter described. True bearing and length of S. $\frac{1}{2}$ of line bet. secs. 27 and 28 are, therefore, S. 1° 04' E., 40.55 chs.

Resurvey of Part of the Subdivision Lines of
T. 18 N., R. 17 E.

Chains (Retracement for Resurvey, Continued)

40.25 South, on a random line, bet. secs. 33 and 34 ($N. \frac{1}{2}$)
Fall 30 lks. W. of the original $\frac{1}{4}$ sec. cor. of secs. 33
and 34, hereinafter described. True bearing and
length of $N. \frac{1}{2}$ of line bet. secs. 33 and 34 are, therefore,
S. $0^{\circ} 26' E.$, 40.25 chs.

Thence,
40.16 South, on a random line, bet. secs. 33 and 34 ($S. \frac{1}{2}$)
Fall 15 lks. W. of the original cor. of secs. 3, 4, 33
and 34. on S. bdy. of Tp., hereinbefore described.
True bearing and length of $S. \frac{1}{2}$ of line bet. secs. 33
and 34 are, therefore, S. $0^{\circ} 13' E.$, 40.16 chs.

RESURVEY.

From the reestablished cor. of secs. 1, 2, 35 and 36, on
S. bdy. of Tp., hereinbefore described.
N. $0^{\circ} 08' W.$ on true line on W. bdy. of sec. 36 ($S. \frac{1}{2}$)
Over-rolling land, through scattering undergrowth.
40.70 Intersect the original $\frac{1}{4}$ sec. cor. of secs. 35 and 36,
which is a marked stone in a mound of earth, with
trace of two pits, one each N. and S. of mound.
Reestablish this cor. in the same place as follows: De-
stroy the old mound of earth and set an iron post 3 ft.
long, 1 in. in diam. 26 ins. in the ground for reestab-
lished $\frac{1}{4}$ sec. cor. of secs. 35 and 36, marked on brass
cap:

$\frac{1}{4}$
 S 35 | S 36
 1920

Dig out the old pits N. and S. of post, 3 ft. dist., to
18 x 18 x 12 ins.,

Thence,
N. $0^{\circ} 10' W.$, on true line on W. bdy. of sec. 36 ($N. \frac{1}{2}$).
Over-rolling land, thru scattering undergrowth.

40.30 Intersect the remains of the original cor. of secs. 25,
26, 35 and 36, which is an earth mound with decayed
stake 6 ins. long buried in center. The old pits NE.
and SE. of cor. are still visible, but no trace re-
mains of the NW. and SW. pits.
Reestablish this cor. in same place as follows: Destroy
the old mound of earth and set an iron post 3 ft. long,
2 ins. in diam. 24 ins. in the ground for reestablished
cor. of secs. 25 26, 35 and 36 marked on brass cap

T18N | R17E
 S 26 | S 25
 S 35 | S 36
 1920

Dig pits 18 x 18 x 12 ins. in each sec. NE. and SE. of
post 3 ft. dist.

Land, rolling mesa.

Soil sandy and stony 3rd rate.

No timber.

Undergrowth, sage brush, 3 ft. high.

N. $0^{\circ} 10' W.$ on true line on W. bdy. of sec. 25.
Over-rolling land, through scattering undergrowth.
21.50 Begin gradual descent over N. slope into the Little
Colorado River bottom.
40.00 Foot of descent in draw 200 lks. wide, course W.

Resurvey of Part of the Subdivision Lines of
T. 18 N., R. 17 E.

9

Chains
40.30 (Midpoint of W. bdy. of sec. 25, and 40.70 chs. N. $0^{\circ} 10'$ W. from closing cor. of secs. 26 and 35) Set an iron post 3 ft. long, 1 in. in diam. 26 ins. in the ground for reestablished $\frac{1}{2}$ sec. cor. of secs. 25 and 26, marked on brass cap:

\uparrow
 S 26 | S 25
 1920

41.50 Raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high W. of cor. From this cor. Charlie Warick's house bears N. $46\frac{1}{2}^{\circ}$ W. Leave draw. Ascend 18 ft. over S. slope of sand stone ledge.

48.50 Stony ridge, bears NW. and SE. Desc. 20 ft. over NE. slope to

55.00 Foot of descent in Little Colorado River bottom, leave hilly land, bears E. and W. enter level bottom land.

55.76 Road to Charlie Warick's ranch bears E. and W.

64.00 Enter swampy land, bears E. and W.

80.60 Intersect the point of original location of the cor. of secs. 23, 24, 25 and 26, which is a post set at cor. of wire fences, which bear N. and E., identified by settlers as the proper point.

Alongside of post set an iron post 5 ft. long, 2 ins. in diam. 24 ins. in the ground for reestablished cor. of secs. 23, 24, 25 and 26, marked on brass cap:

T 18 N | R 17 E
 S 23 | S 24
 S 26 | S 25
 1920

Dig pits 18 x 18 x 12 ins. in each sec. NE., SE., SW., and NW. of post 3 ft. dist.

From this cor. Charlie Warick's house bears S. 54° W. Land, level, rolling and hilly.

Soil, sandy and stony, 2nd, 3rd and 4th rate.

No timber.

Undergrowth, sagebrush, 2 ft. high.

S. $89^{\circ} 52'$ W. on true line bet. secs. 25 and 26. Over level swamp land with good growth grass.

17.50 Wire fence bears N. and S.

36.00 Leave swamp land, bears N. 30° E., and S. 30° W., enter rolling sandy land.

40.00 (Midpoint) set an iron post, 3 ft. long, 1 in. in diam. 26 ins. in the ground for reestablished $\frac{1}{2}$ sec. cor. of secs. 25 and 26, marked on brass cap

$\frac{1}{2}$ S 23
 $\frac{1}{2}$ S 26
 1920

Dig pits 18 x 18 x 12 ins. E. and W. of post 3 ft. dist.

45.45 Old road to Little Colorado River, bears NW. and SE.

70.10 Wire fence bears N. and S.

71.00 East or Right bank of Chevelon Creek 8 ft. high bears N. and S. Thence across creek.

72.25 Chevelon Creek, with stream of clear water 90 lks. wide, 20 ins. deep on sandy bottom, course N.

75.00 West or left bank of Chevelon Creek, 2 ft. high, bears N. and S. Leave creek, thence over level sandy bottom land.

80.00 Intersect the remains of the original cor. of secs. 22, 23, 26 and 27, which is a post 4 ins. sq. 1 ft. above ground, greatly decayed, marks almost obliterated. No cor. accessories visible.

Resurvey of Part of the Subdivision Lines of
T. 18 N., R. 17 E.

10

Chains Alongside of the old post, set an iron post 3 ft. long, 2 ins. in diam. 24 ins. in the ground, for reestablished cor. of secs. 22, 23, 26 and 27, marked on brass cap:

T 18 N	R 17 E
S 22	S 23
S 27	S 26
1920	

Dig pits 18 x 18 x 12 ins. in each sec. NE., SE., SW., and NW., of post 3 ft. dist.

Land, level and rolling.

Soil, sandy, 2nd and 3rd rate.

No timber.

Undergrowth, sagebrush.

Good grass.

S. 88° 58' W., on true line, bet. secs. 22 and 27 (E. $\frac{1}{2}$)
Over level sandy bottom land, subject to overflow to a depth of a few inches in times of exceptionally high water in the Chevelon Creek.

10.00 Leave level bottom land, bears N. 15° E. and S. 10° W.
Ascend 74 ft. over E. slope of rolling sand hills.

33.00 Sand ridge, bears N. and S. Desc. 33 ft. over W. slope.

41.10 Intersect the original $\frac{1}{4}$ sec. cor. of secs. 22 and 27, which is a cedar post 4 ins. sq. 8 ins. above ground, firmly set, marked " $\frac{1}{4}$ S" on N. face. No trace of accessories.

Alongside of the old post, set an iron post 3 ft. long, 1 in. in diam. over cross (X) on bedrock 12 ins. in the ground, supported in a mound of stone 4 ft. base, 2 ft. high, for reestablished $\frac{1}{4}$ sec. cor. of secs. 22 and 27, marked on brass cap:

$\frac{1}{4}$ S 22
$\frac{1}{4}$ S 27
1920

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

N. 88° 38' W., on true line, bet. secs. 22 and 27 (W. $\frac{1}{2}$).
Over rolling land, thru scattering undergrowth.

1.40 Old road to Little Colorado river, bears NE. and SW.

1.76 Ravine 4 lks. wide, course SW. asc. 17 ft. over SE. slope.

18.86 S. end of stony ridge, bears N. and S. Desc. over SW. slope to

41.08 Intersect the original point of location of the cor. of secs. 21, 22, 27 and 28, determined by reference to the old accessories consisting of faint traces of pits, one in each sec., and mound of earth N. of cor. point. Part of stake originally set in SE. pit is found lying on the ground marked and notched as per record.

Destroy the remains of the old accessories and at original cor. point, set an iron post 3 ft. long, 2 ins. in diam. 24 ins. in the ground for reestablished cor. of secs. 21, 22, 27 and 28, marked on brass cap:

T 18 N	R 17 E
S 21	S 22
S 28	S 27
1920	

Raise a mound of stone 2 ft. base, 1 $\frac{1}{2}$ ft. high W. of cor. Land, level and hilly.

Soil, sandy and stony, 3rd and 4th rate.

No timber.

Undergrowth, sage brush.

Resurvey of Part of the Subdivision Lines of
T. 18 N., R. 17 E.

Chains S. 1° 03' E. on true line bet. secs. 27 and 28 (N. $\frac{1}{2}$)
Over rolling stony land, thru scattering undergrowth.
Desc. 18 ft. over SW. slope.

17.20 Wash 20 lks. wide, 4 ft. deep, course E. Thence over
flat, bears E. and W.

31.65 Old road bears E. and W., from Winslow, Arizona, to ford
on Chevelon Creek at mouth of box canyon.

41.09 Intersect the original $\frac{1}{4}$ sec. cor. of secs. 27 and 28,
which is a cedar stake in mound of earth and stone,
marked " $\frac{1}{4}$ S" on W. face. No accessories.
Alongside of the old stake, set an iron post, 3 ft. long
1 in. in diam. 26 ins. in the ground for reestablished
 $\frac{1}{4}$ sec. cor. of secs. 27 and 28, marked on brass cap:

$\frac{1}{4}$
 S 28 | S 27
 1920

Raise a mound of stone 2 ft. base, 1 $\frac{1}{2}$ ft. high W. of cor.
Thence S. 1° 04' E. on true line, bet. secs. 27 and 28
(S. $\frac{1}{2}$)

Over level land, thru scattering undergrowth.

8.11 Wash, 10 lks. wide, course NE. Leave level land. Asc. 50
ft.

23.08 Highway from Winslow to Holbrook, Arizona, bears E. and
W. Enter scattering timber, bears E. and W.

23.90 Leave sandy land, bears E. and W. Enter barren surface
rock slopes to the NE.

40.55 Intersect the original cor. of secs. 27, 28, 33 and 34,
which is a soft sand stone 24 x 12 x 4 ins., set in
a mound of stone, marked with 3 notches on E. edge and
1 notch on S. edge, from which
A cedar, 12 ins. in diam. bears S. 85° W., 44 lks.
dist., marked "TXVIIIN, RXVIIIE, SKXXIII BT."
Alongside of the old stone cor., set an iron post 3 ft.
long, 2 ins. in diam. supported in a mound of stone 6 ft.
base, 2 $\frac{1}{2}$ ft. high, over cross (X) on bedrock for re-
established cor. of secs. 27, 28, 33 and 34, marked
on brass cap:

T 18 N R 17 E
 S 28 | S 27
 S 33 | S 34
 1920

Raise a mound of stone, 2 ft. base, 1 $\frac{1}{2}$ ft. high W. of cor.
Land, rolling, hilly and level,
Soil, sandy, stony, and bare surface rock, 3rd and 4th
rate.
Timber, scattering scrub cedar, where noted.
Undergrowth, scattering sage brush.

S. 0° 26' E. on true line, bet. secs. 33 and 34. (N. $\frac{1}{2}$)
Over barren surface rock, through scattering timber. Desc.
12 ft. over SE. slope.

5.00 Rocky ravine 10 lks. wide, course NE. Asc. 17 ft. over
NW. slope.

10.00 Leave barren rock and timber, bears NE. and SW. Thence
over sandy and gravelly land, thru scattering under-
growth.

25.00 Ridge bears NE. and SW. Desc. 18 ft. over SE. slope.

35.00 Foot of descent in depression, bears NE. and SW., drains
NE. Asc. gradually over NW. slope.

40.25 Intersect the original $\frac{1}{4}$ sec. cor., which is a sand stone
14 x 6 x 3 ins., loosely set, marked " $\frac{1}{4}$ " on N. face.
No cor. accessories.
Alongside of the old stone cor., set an iron post 3 ft.
long, 1 in. in diam. 26 ins. in the ground for reestab-

Resurvey of Part of the Subdivision Lines of
T. 18 N., R. 17 E.

Chains lished $\frac{1}{4}$ sec. cor. of secs. 33 and 34, marked on brass cap:

$\frac{1}{4}$
 S 33 | S 34
 1920

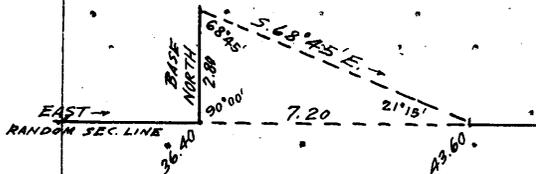
Dig pits 18 x 18 x 12 ins. N. and S. of post, 3 ft. dist. Thence
 S. $0^{\circ} 13'$ E. on true line, bet. secs. 27 and 28 (S. $\frac{1}{4}$).
 Over-rolling and broken land, thru scattering undergrowth.
 18.00 Spur, slopes E. Desc. 70 ft. over S. slope.
 26.50 Rocky ravine, 25 lks. wide, course N. 70° E. Asc. 18 ft. over barren sandstone surface rock to
 40.16 Intersect the reestablished cor. of secs. 3, 4, 33 and 34, on S. bdy. of Tp., hereinbefore described.
 Land, rolling and broken.
 Soil, sandy and gravelly and barren surface rock, 3rd and 4th rate.
 Timber scattering scrub cedar, on N. 10 chs. of mile.
 Undergrowth, scattering sage brush.

Line designated	True course	Dist.	Latitudes		Departures	
			N.	S.	E.	W.
S. bdy. of Tp.	S. $89^{\circ} 43'$ W. S. $89^{\circ} 59'$ W.	40.34 120.50		.20 .03		40.34 120.50
Subdivisional bdy.	N. $0^{\circ} 13'$ W.	40.16	40.16	40.16		.15
	N. $0^{\circ} 26'$ W.	40.25	40.25			.30
	N. $1^{\circ} 04'$ W.	40.55	40.54			.75
	N. $1^{\circ} 03'$ W.	41.09	41.08			.75
	S. $88^{\circ} 38'$ E.	41.08		.98	41.07	
	N. $88^{\circ} 58'$ E.	41.10	.74		41.09	
	N. $89^{\circ} 52'$ E.	80.00	.19		80.00	
	S. $0^{\circ} 10'$ E.	120.90		120.90	.35	
	S. $0^{\circ} 08'$ E.	40.70		40.70	.09	
Convergency					.06	
Totals			162.96	162.81	162.66	162.79
			162.81			162.66
	Error in latitude - - - - -		-0.15			
	Error in departure - - - - -					0.13

Survey of Part (Completion) of the Subdivisions
Lines of T.18 N., R.17 N.

Chains From the reestablished cor. of secs. 2, 3, 34 and 35 on S. bdy. of Tp., hereinbefore described,
North, on a random line bet. secs. 34 and 35, 26 and 27, setting temp. $\frac{1}{4}$ sec. and sec. cors. at intervals of 40.00 chs. and at
161.76 Fall 17 lks. E. of the reestablished cor. of secs. 22, 23, 26 and 27, which is an iron post, 2 ins. in diam., True course and distance of this line are therefore $N0^{\circ}04'W.$, 161.76 chs.

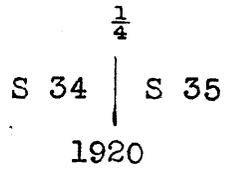
From the reestablished cor. of secs. 27, 28, 33 and 34, hereinbefore described,
36.40 East, on a random line bet. secs. 27 and 34, 26 and 35, West rim of Chevalon Canyon. Set flag on random line on East rim of canyon and measure a base North, 2.80 chs. dist. to a point from which flag on E. rim, bears $S.68^{\circ}45'E.$ The included angles are $68^{\circ}45'$, $21^{\circ}15'$ and $90^{\circ}00'$ the sum of which is $180^{\circ}00'$.



Dist. by triangulation = 7.20 chs.
Dist. on random = 36.40 "
Total distance = 43.60 "

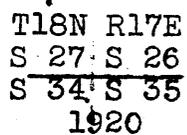
43.60 Triangulation point on East rim of canyon.
80.75 Fall 33 lks. N. of the temp. cor. of secs. 26, 27, 34 and 35.
120.00 Set temp. $\frac{1}{4}$ sec. cor.
160.92 Fall 96 lks. S. of the reestablished cor. of secs. 25, 26, 35 and 36. True course and distance of line from cor. of secs. 27, 28, 33 and 34 to cor. of secs. 25, 26, 35 and 36 are therefore $S.89^{\circ}40'W.$, 160.92 chs.

Return to the cor. of secs. 2, 3, 34 and 35 on S. bdy. Thence $N.0^{\circ}04'W.$, on a true line bet. secs. 34 and 35. Over rolling land, thru scattering undergrowth.
40.00 Set an iron post, 3 ft. long, 1 in. in diam., 27 ins. in the ground for $\frac{1}{4}$ sec. cor., marked on brass cap



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

49.11 Highway, from Winslow to Holbrook, Ariz., bears SE. & NW.
80.80 Intersect true line bet. cor. of secs. 27, 28, 33 and 34 and cor. of secs. 25, 26, 35 and 36, 80.26 chs. $S.89^{\circ}40'W.$, of the cor. of secs. 25, 26, 35 and 36. At point of intersection, set an iron post, 3 ft. long, 2 ins. in diam., 27 ins. in the ground for cor. of secs. 26, 27, 34 and 35, marked on brass cap



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

Land; rolling. Soil; sandy, 2nd. and 3d. rates.
Timber; none.
Undergrowth; scattering sagebrush.

BOOK 3540

Survey of Part (Completion) of the Subdivision
Lines of T.18 N., R.17 E.

Chains	
	From the cor. of secs. 25, 26, 35 and 36, S.89°40'W., on a true line bet. secs. 26 and 35. Over rolling land, thru scattering undergrowth.
38.50	Descend 20 ft. over W. slope.
40.13	Set an iron post, 3 ft. long, 1 in. in diam., 4 ins. in the ground to bed rock, deposit a stone marked cross (X) alongside and raise a mound of stone 5 ft. base, 2½ ft. high around post for ¼ sec. cor. marked on brass cap S 26 ¼ S 35 1920
42.13	Dry ravine, 30 lks. wide, course NE. Asc. E. slope.
49.70	Point of stony spur, bears NE. Desc. 17 ft. over NW. slope.
55.80	Ravine, 8 lks. wide, course N. Asc. 25 ft. over E. slope.
60.25	Spur, bears N. Desc. 11 ft. over W. slope.
70.00	Ravine, 6 lks. wide, course N.10°E. Asc. 22 ft. over E. slope.
80.26	Intersect the cor. of secs. 26, 27, 34 and 35. Land; rolling and hilly. Soil; sandy and stony, 3rd. and 4th. rates. Timber; none. Undergrowth; scattering sagebrush.
	N.0°04'W., on a true line bet. secs. 26 and 27. Over rolling and hilly land, thru scattering undergrowth.
36.30	Road from Charlie Wyrick's house to bridge over Chevalon Canyon, bears N.70°E. and S.70°W.
36.36	Wire fence, bears N.70°E. and S.70°W.
40.96	(40.00 chs. south of cor. of secs. 22, 23, 26 and 27) Set an iron post, 3 ft. long, 1 in. in diam., 27 ins. in the ground, with stone marked cross (X) alongside for ¼ sec. cor., marked on brass cap ¼ S 27 S 26 1920 Pits impracticable.
48.85	Right bank of Chevalon Creek, bears E. and W.
51.35	Center of Chevalon Creek, 120 lks. wide, clear water 18 ins. deep on sandy bottom.
53.10	Left Bank of Chevalon Creek, 3 ft. high, bears E. and W. Thence over level bottom land.
80.96	Intersect the cor. of secs. 22, 23, 26 and 27. Land; rolling and level. Soil; sandy and stony, 2nd. and 3rd. rates. No timber. Undergrowth; scattering sage.
	From the cor. of secs. 26, 27, 34 and 35, S.89°40'W., on a true line bet. secs. 27 and 34. Over rolling land, thru scattering undergrowth. Desc. 22 ft. over W. slope.
14.05	Ravine, 7 lks. wide, course N. Asc. 34 ft. over E. slope.
18.20	Stony ridge, bears N. and S. Desc. 10 ft. over W. slope.
33.65	Highway from Winslow to Holbrook, bears SE. and NW.
37.10	East rim of Chevalon Canyon, on sandstone bluff, 100 ft. high, bears N.10°E. and S.10°W.
40.00	True point for ¼ sec. cor. of sec. 34 falls in Chevalon Creek in water 30 ft. deep, where it would be impossible to establish the cor. without a diving suit.

Survey of Part (Completion) of the Subdivision
Lines in T.18 N.,R.17 E.

Chains

- 40.64 True point for $\frac{1}{4}$ sec. cor. of sec. 27 falls in Chevalon Creek.
- 40.70 Middle of Chevalon Creek, 3 chs. wide, 30 ft. deep, course N.10°E.
- 42.80 Top of perpendicular sandstone bluff on W. side of canyon bears N.10°E. and S.10°W.
- 43.20 Mark a cross (X) on surface rock and over same set an iron post, 3 ft. long, 1 in. in diam., supported in a mound of stone for witness cor. to $\frac{1}{4}$ sec. cor. of sec. 27 and also $\frac{1}{4}$ sec. cor. of sec. 34, marked on brass cap

$\frac{1}{4}$ S 27
 W C -----
 $\frac{1}{4}$ S 34
 1920

- Asc. 14 ft. over SE. slope.
- 47.65 Point of stony spur, bears NE. Desc. 10 ft. over NW. slope.
- 52.60 Ravine, 6 lks. wide, course NE. Asc. 55 ft. over SE. slope.
- 63.50 Top of stony hill, bears NE. and SW. Desc. 43 ft. over NW. slope.
- 75.60 Enter scattering cedar timber, bears N. and S.
- 77.00 Ravine, 10 lks. wide, course NE. Asc. 11 ft.
- 80.64 The reestablished cor. of secs. 27, 28, 33 and 34, hereinbefore described.

Land; rolling and broken.
 Soil; stony, 3d. and 4th. rates.
 Timber; scattering cedar.
 Undergrowth; sagebrush.

November 9, 1920: Upon the completion of the surveys under group No. 93, in T.18 N.,R.17 E., place the instrument on the meridian established November 5, 1920, by observations on Polaris at camp, near the $\frac{1}{4}$ sec. cor. bet. secs. 27 and 28, T.18 N.,R.17 E., in latitude $34^{\circ}55'36''$ N., and longitude $110^{\circ}32'$ W., hereinbefore described, and 4h 15m p.m., l.m.t., set off $54^{\circ}55\frac{1}{2}'$ N., on the lat. arc, $16^{\circ}55\frac{1}{2}'$ S., on the decl. arc and determine a meridian with the solar which falls $1\frac{1}{2}'$ west of the meridian established by the Polaris observation.

November 10, 1920: At 8h 14m a.m., l.m.t., with the latitude arc unchanged, set off $17^{\circ}08'$ S., on the decl. arc and determine a meridian with the solar. This meridian agrees with the meridian established by observation on Polaris.

GENERAL DESCRIPTION

The portion of T.18 N.,R.17 E. described in the foregoing field notes, comprises a rolling mesa country the soil of which is a sandy clay loam, varying from two to twelve inches in depth and underlaid by a sandstone bed-rock, the soil in general is too sandy to be of much value for agricultural purposes.

There is a scattered growth of cedar west of the Chevalon canyon in sec. 34.

Chevalon Creek, which flows through secs. 26, 27, and 34 in a box canyon with sandstone walls 100 ft. high, is about 1 ch. wide and through this canyon has an average depth of 18 ft. The water of this stream is clear and pure and since the stream has its source in springs far back in the mountains, flows throughout the year.

There are no mineral deposits in this part of the township. There is one settler residing in sec. 26, who is engaged in stock raising, for which the land is best suited.

CERTIFICATE OF UNITED STATES CADASTRAL ENGINEER.

BOOK 3540

I, Sidney E. Blout, U. S. Cadastral Engineer, hereby certify upon honor that, in pursuance of special instructions received from the U. S. Surveyor General, for Group 93, Arizona,

bearing date of the 28th day of September, 1918, 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, re-surveyed all those parts or portions of the South boundary, and Subdivision lines, and surveyed all those parts or portions of the Subdivision lines

of

Township 18 North, Range 17 East,

of the Gila and Salt River

Base and Meridian, in the State of Arizona, which are represented in and by diagram on page 2 hereof

the foregoing field notes, as having been executed by me, and under my direction; and that all the corners of resurvey and said survey have been established and perpetuated in strict accordance with the Manual of Surveying Instructions, and the special written instructions of the U. S. Surveyor General, for Group 93, Arizona,

and in the specific manner described in the field notes, and that the foregoing are the original field notes of such resurvey and survey.

Phoenix, Arizona.

Date October 21, 1921

Sidney E. Blout
U. S. Cadastral Engineer

APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Phoenix Arizona, Nov. 15 1921

The foregoing field notes of the re-survey of part of the South boundary, and of the resurvey and survey of part of the Subdivision lines of

Township 18 North, Range 17 East,

of the Gila and Salt River Base and Meridian,

in the State of Arizona,

executed by Sidney E. Blout, U. S. Cadastral Engineer,

under his special instructions dated September 28, 1918 for Group 93 Arizona, having been critically examined, and the necessary corrections and explanations made, the said field notes, and the surveys they describe, are hereby approved.

Grand C. Frost

U. S. Surveyor General.

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