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Book "B"

BOOK 3539

# FIELD NOTES

BOOK 3539

OF THE RESURVEY OF

the Fourth Standard Parallel North through parts of Ranges 19 and 20 East,

and of

part of the West boundary,

and part of the Subdivision lines,

AND OF THE SURVEY OF

part (completion) of the Subdivision lines of

Township 17 North, Range 20 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, Arizona, 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 October 28, 1920

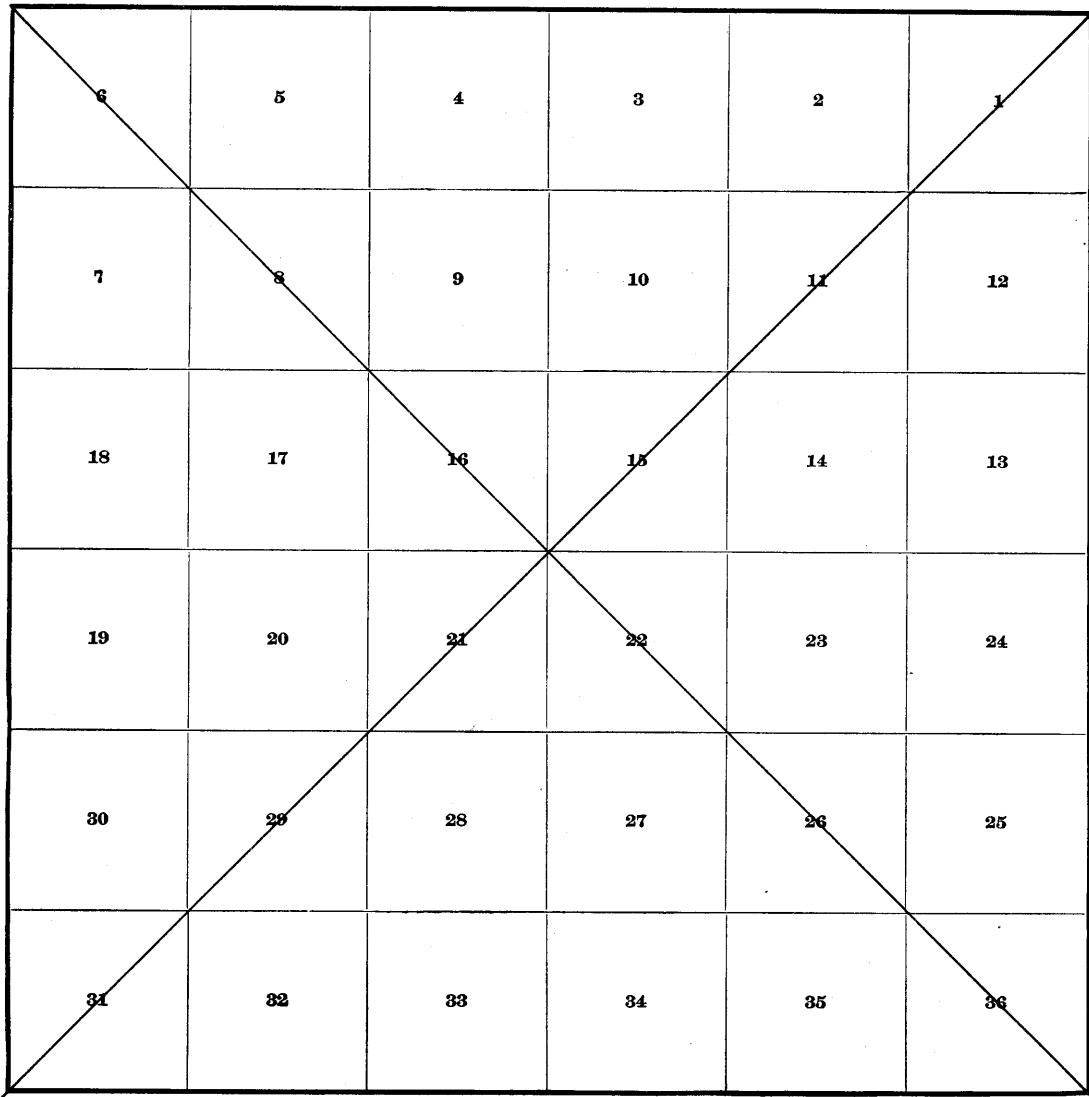
Resurvey and Survey completed May 14, 1921

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# INDEX DIAGRAM.

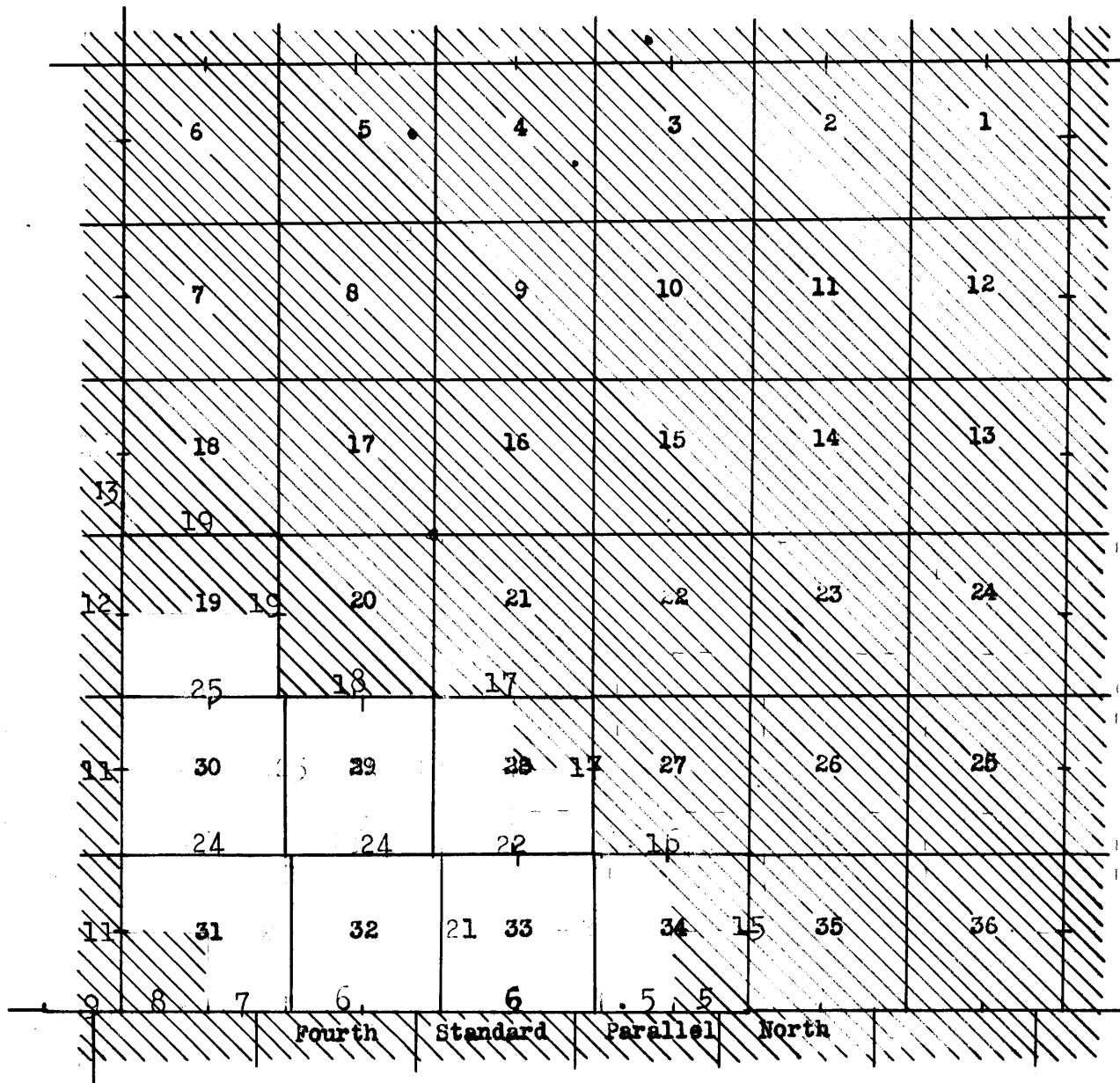
*Township* ..... *Range* .....



Index Diagram

Township 17 North, Range 20 East,


BOOK 3539



— Lines resurveyed under this Group.

— Lines surveyed under this Group.

— Accepted surveys.

 Areas surveyed as per accepted plats on file,

BOOK 3539

Date Diagram

Township 17 North, Range 20 East.

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

On the above diagram:-

red lines indicate resurveys,

and blue lines indicate surveys,

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

on dates shown thereon,

and black lines indicate accepted surveys.

## Chains.

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,  $4\frac{1}{2}$  inch horizontal circle, 4-inch vertical 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 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 resurveys and surveys in this township, examine the adjustments of the transit and correct the level and collimation errors; then, to test the solar apparatus by comparing its indications resulting from solar observations made during a.m. and p.m. hours with a meridian established by observations on Polaris, proceed as follows:

October 27, 1920. In camp, near the  $\frac{1}{4}$  sec. cor. of secs. 26 and 35, T. 17 N., R. 20 E., Gila and Salt River Meridian, in latitude  $34^{\circ}50'N.$ ; longitude,  $110^{\circ}12'W.$  at 5h. 04m. 45 s., p.m., l.m.t., observe Polaris at eastern elongation, making four observations, two each with 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 chs. N.

Azimuth of Polaris at eastern elongation =  $1^{\circ}21'38''$ .

October 28, 1920: Lay off the azimuth of Polaris  $1^{\circ}21'38''$  to the west, and mark the meridian thus determined by a nail in a peg driven firmly in the ground 5 chs. N.

At 8h. 30m. a.m., apparent time, set off  $34^{\circ}50'N.$  on the lat. arc;  $13^{\circ}06\frac{1}{2}'S.$  on the decl. arc, and determine a meridian with the solar, and mark a point thereof by a nail in stake already set 5 chs. N. of this point falls  $01\frac{1}{2}'E.$  of the meridian established by the Polaris observation.

At the standard  $\frac{1}{4}$  sec. cor. on S. bdy. of sec. 34, set off  $13^{\circ}12'S.$  on the decl. arc, and at apparent noon, observe the sun on the meridian and obtain a reading of  $34^{\circ}49'N.$  on the lat. arc.

In camp set off  $34^{\circ}50'N.$  on the lat. arc  $13^{\circ}13\frac{1}{4}'S.$  on the decl. arc, and at 4h. 30m. p.m., apparent time determine a meridian with the solar, and mark a point thereof on the stake already set 5 chains N. This point falls  $00\frac{1}{2}'W.$  of the meridian established by the Polaris observation.

The a.m. and p.m. observations with the solar defines positions for meridians which agree within  $01\frac{1}{2}'$  of the meridian established by the Polaris observation; therefore conclude that the adjustments of the instrument are satisfactory.

Resurvey of the Fourth Standard  
Parallel North, thru. part of Range 20 East (W.4 miles)

chains.

- The 4th. Std. Parallel North, thru. Range 20 E. was surveyed by John L. Harris, U.S.D.S. in 1879, and retraced by Henry Meyrick, U.S.D.S. in 1883. No subsequent retracement or resurvey of any part of the Parallel in R. 20 E. is of record. The following notes describe a resurvey of the west four miles in R. 20 E., using in the retracement for such resurvey the record of said Meyrick retracement for the courses of the random line. From the original standard corner of secs. 34 and 35 hereinafter described,
- 37.82 S.  $89^{\circ}48'W.$ , on random line on S. bdy. of sec. 34 (E.  $\frac{1}{2}$ ).  
Fall 26 lks. S. of the original standard  $\frac{1}{4}$  sec. cor. of sec. 34, hereinafter described.  
True bearing and length of E.  $\frac{1}{2}$  of S. bdy. of sec. 34 are therefore N.  $89^{\circ}48'W.$ , 37.82 chs.
- 41.48 Thence,  
S.  $89^{\circ}45'W.$ , on a random line, on old S. bdy. of sec. 34 (W.  $\frac{1}{2}$ ).  
Fall 8 lks. S. of the original standard cor. of secs. 33 and 34, hereinafter described.  
True bearing and length of W. half of old S. bdy. of sec. 34 are therefore, S.  $89^{\circ}52'W.$ , 41.48 chs.
- 40.22 S.  $89^{\circ}39'W.$ , on a random line, on old S. bdy. of sec. 33 (E.  $\frac{1}{2}$ ).  
Fall 8 lks. S. of the original standard  $\frac{1}{4}$  sec. cor. of sec. 33, hereinafter described. True bearing and length of E. half of old S. bdy. of sec. 33 are therefore, S.  $89^{\circ}46'W.$ , 40.22 chs.
- 40.34 Thence,  
S.  $89^{\circ}47'W.$ , on a random line, on old S. bdy. of sec. 33 (W.  $\frac{1}{2}$ ).  
Fall 13 lks. N. of the remains of the original standard cor. of sec. 32 and 33, hereinafter described.  
True bearing and length of W.  $\frac{1}{2}$  of old S. bdy. of sec. 33 are therefore, S.  $89^{\circ}37'W.$ , 40.34 chs.
- 39.50 S.  $89^{\circ}48'W.$ , on a random line on old S. bdy. of sec. 32 (E.  $\frac{1}{2}$ ).  
Fall 20 lks. N. of the original standard  $\frac{1}{4}$  sec. cor. of sec. 32, hereinafter described.  
True bearing and length of E.  $\frac{1}{2}$  of old S. bdy. of sec. 32, are therefore S.  $89^{\circ}31'W.$ , 39.50 chs.
- 40.38 Thence,  
S.  $89^{\circ}50'W.$ , on a random line, on old S. bdy. of sec. 32 (W.  $\frac{1}{2}$ ).  
Fall 18 lks. S. of the original standard cor. of secs. 31 and 32, hereinafter described.  
True bearing and length of W. half of old S. bdy. of sec. 32 are therefore N.  $89^{\circ}54'W.$ , 40.38 chs.
- 40.26 S.  $89^{\circ}45'W.$ , on a random line, on old S. bdy. of sec. 31 (E.  $\frac{1}{2}$ ).  
Fall 18 lks. N. of the remains of the original standard  $\frac{1}{4}$  sec. cor. of sec. 31, hereinafter described.  
True bearing and length of E. half of old S. bdy. of sec. 31, are therefore S.  $89^{\circ}29'W.$ ; 40.26 chs.
- 40.32 Thence,  
S.  $89^{\circ}51'W.$ , on a random line, on S. bdy. of sec. 31 (W.  $\frac{1}{2}$ ).  
Fall 25 lks. N. of the remains of the original standard cor. of Ts. 17 N., Rs. 19 and 20 E., hereinafter described.  
True bearing and length of W.  $\frac{1}{2}$  of S. bdy. of sec. 31 are therefore S.  $89^{\circ}30'W.$ , 40.32 chs.

RESURVEY.

The original standard cor. of secs. 34 and 35, T. 17 N., R. 20 E. is an earth mound with decayed stake in center, equidistant from faint traces of two pits, one each N. and E. of cor.  $5\frac{1}{2}$  ft. dist. No bearing trees.

Resurvey of the Fourth Standard Parallel  
North, thru Part of R.20 E.

Chains

In center of old mound alongside old stake, set an iron post, 3 ft. long, 2 ins. in diam., 24 ins. in the ground for standard cor. of secs. 34 and 35 marked on brass cap

S C  
T17N R20E  
S 34 S 35

1921

Raise a mound of stone, 2 ft. base, 1 1/2 ft. high N. of cor.

Thence

N.89°48'W., on a true line on S. bdy. of sec. 34 (E. 1/2) Over gently rolling land, thru scattering undergrowth. Asc. over gradual E. slope.

12.20  
37.82

Low ridge, bears N. and S. Desc. over gradual W. slope. Intersect the original Std. 1/4 sec. cor. of sec. 34, which is a soft sandstone 14 x 12 x 3 ins. marked "1/4" on N. face, loosely set in a small mound of stone. No accessories. I reset the old cor. stone 10 ins. in the ground and alongside of same set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in the ground for standard 1/4 sec. cor. of sec. 34 marked on brass cap

S C  
1/4 S 34

1920

Raise a mound of stone, 2 ft. base, 1 1/2 ft. high N. of cor.

Thence

S.89°52'W., on a true line on S. bdy. of sec. 34 (W. 1/2) Over gently rolling land; thru scattering undergrowth.

35.88  
37.50  
38:60  
39.95  
41.48

Wire fence, bears N. and S. East rim of canyon, 60 ft. deep, bears N. and S. Desc. Ravine, 20 lks. wide, in bottom of canyon, course N. Asc. West rim of canyon, bears N. and S. Asc. very gradually over E. slope. Intersect the original standard cor. of secs. 33 and 34, which is a cedar post 3 ft. long, 4 ins. sqr., loosely set in a mound of stone, marked TXVllN RXXE on E. face and XXXlll on W. face. Other marks on post obliterated. No accessories. Alongside of old post, set an iron post, 3 ft. long, 2 ins. in diam., 18 ins. in the ground to bed rock, deposit a stone marked cross (X) alongside and raise a mound of stone 4 ft. base, 1 1/4 ft. high around post for Std. cor. of secs. 33 and 34, marked on brass cap

S C  
T17N R20E  
S 33 S 34

1922

Land; rolling and broken.  
Soil; sandy and stone, 3rd. and 4th. rates.  
Timber; none.  
Undergrowth; sagebrush,

Resurvey of the Fourth Standard Parallel  
North, thru part of R.20 E.

Chains S.89°46'W., on a true line on S. bdy. of sec. 33 (E.  $\frac{1}{2}$ )  
Over gently rolling land, thru scattering undergrowth.  
Asc. over gradual E. slope.

40.22 Intersect the original standard  $\frac{1}{4}$  sec. cor. of sec. 33,  
which is a sandstone, 10 x 10 x 2 ins. above ground,  
firmly set, marked SC  $\frac{1}{4}$  on N. face. No accessories.  
Alongside of old cor., set an iron post, 3 ft. long,  
1 in. in diam., 14 ins. in the ground to bed rock,  
deposit a stone marked cross (X) alongside and raise  
a mound of stone, 3  $\frac{1}{2}$  ft. base, 1  $\frac{1}{2}$  ft. high around post  
for standard  $\frac{1}{4}$  sec. cor. marked on brass cap

S C  
 $\frac{1}{4}$  S 33

1920

Thence  
S.89°37'W., on a true line on S. bdy. sec. 33 (W.  $\frac{1}{2}$ )

28.30 Sand ridge, bears N. and S. Desc. over W. slope.  
40.00 Set an iron post, 3 ft. long, 2 ins. in diam., 27 ins. in  
the ground, deposit a stone marked cross (X) alongside,  
for standard cor. of secs. 32 and 33, marked on brass cap

S C  
T17N R20E  
S 32 | S 33

1920

Land; rolling.  
Soil; sandy and stony, 2nd. and 3d. rates.  
Timber; scattering cedar.  
Undergrowth; sagebrush.

---

S.89°37'W., on a true line on S. bdy. of sec. 32 (E.  $\frac{1}{2}$ )  
Over rolling land, thru scattering undergrowth.

.34 Intersect the original standard cor. of secs. 32 and 33,  
which is a cedar post, 3 ft. long, 3 ins. sqr. marked  
TXV11N XXX11 on one face with 2 notches on one edge  
and four notches on opposite edge, lying on a mound of  
earth. Faint traces of two pits one each NE. and NW. of  
center of mound 5  $\frac{1}{2}$  ft. dist. are visible.  
Destroy mound of earth and in center of its position,  
reset old post, 24 ins. in the ground and alongside of  
same set an iron post, 3 ft. long, 2 ins. in diam.,  
24 ins. in the ground for angle point, marked on brass  
cap

A P  
T17N R20E  
S 32

1920

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

Thence  
S.89°31'W., on a true line on S. bdy. of sec. 32,  
continuing measurement.

32.65 East rim of box canyon, 85 ft. deep.  
34.60 Dry bed of creek in bottom of canyon, 25 lks. wide, course  
N. Asc.

36.60 West rim of canyon, bears N. and S.  
39.84 Intersect the original standard  $\frac{1}{4}$  sec. cor. of sec. 32,  
which is a cedar post, 2 ft. long, 3 ins. sqr., marked  
 $\frac{1}{4}$  S on N. face.  
Alongside of old stake, set an iron post, 3 ft. long,  
1 in. in diam., 12 ins. in the ground to bed rock,  
over a cross (X) chiseled in the bed rock, supported



Resurvey of the Fourth Standard Parallel  
North, thru Part of R.20 E.

Chains

in a mound of stone, 5ft. base, 2 ft. high, for angle point, marked on brass cap

A P  
T17N R20E  
S 32

1920

Raise a mound of stone, 2 ft. base, 1½ ft. high S. of cor.

Thence

40.00 S.89°54'W., on a true line, continuing measurement. Set an iron post, 3 ft. long, 1 in. in diam., 27 ins. in the ground, with stone marked cross (X) alongside for standard ¼ sec. cor. of sec. 32 marked on brass cap

S C  
¼ S 32

1920

54.80 Sandy ridge, bears N. and S. Desc. over gentle NW. slope.  
80.22 Intersect the original standard cor. of secs. 31 and 32, which is a cedar post, 3 ins. sqr., 2½ ft. long, set in a small mound of stone and marked SC on N. face, XXXI on W. face, 5 notches on E. edge and 1 notch on W. edge.

Alongside of old stake, set an iron post, 3 ft. long, 2 ins. in diam., over cross (X) on bed rock, supported in a mound of stone for standard cor. of secs. 31 and 32 marked on brass cap

S C  
T17N | R20E  
S 31 | S 32

1920

Land; rolling.  
Soil; sandy, 2nd. and 3d. rates.  
Undergrowth; sagebrush.  
No timber.

2.50 S.89°29'W., on a true line on S. bdy. of sec. 31 (E.½) Over gently rolling land, thru scattering undergrowth. Desc. over gradual W. slope.

22.00 Wash, 10 lks. wide, 2 ft. deep, course N. Thence over N. slope.

25.25 Draw, 1.50 chs. wide, course NE. Asc. over gradual SE. slope.

40.26 Wood road, bears NE. and SW.

Intersect the original standard ¼ sec. cor. of sec. 31, which is a decayed end of cedar post in earth mound with faint traces of two pits, one each E. and W. of mound 5½ ft. dist.

Alongside of old stake, in center of mound, set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in the ground for standard ¼ sec. cor. of sec. 31, marked on brass cap

S C  
¼ S 31

1920

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

Thence

S.89°30'W. on a true line on S. bdy. of sec. 31 (W.½) Over gently rolling land, thru scattering undergrowth.

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Resurvey of the Fourth Standard Parallel  
North, thru Part of R.20 E.

Chains  
7. 7.80  
40.32

Asc. over gentle SE. slope.  
Low ridge, bears NE. and SW. Desc. over gentle NW. slope.  
Intersect the original standard cor. of Ts. 17 N., Rs. 19  
and 20 E., which is a decayed post in center of mound  
of earth with three pits one each N., E. and W. of mound  
5 1/2 ft. dist.  
Alongside old stake in center of old mound, set an iron  
post, 3 ft. long, 2 ins. in diam., 8 ins. in the ground  
over a cross (X) on bed rock, supported in a mound of  
stone, 6 ft. base, 2 ft. high, for cor. of Ts. 17 N.,  
Rs. 19 and 20 E., marked on brass cap

S C  
T17N  
R19E R20E  
S 36 S 31

1920

Obliterate the remains of the old pits and dig new  
pits 18 x 18 x 12 ins. on each line, N., E. and W. of  
cor., 3 ft. dist.

Land; gently rolling.  
Soil; sandy and stony, 3rd. and 4th. rates.  
Undergrowth; scattering scrub cedar and sagebrush,  
Timber; none.

Resurvey of Fourth Standard Parallel North, thru. part of Range 19 E. (S. of E. 1/2 of sec. 36)

Chains.

The 4th. Standard Parallel N., thru. Range 19 East, was surveyed by M.N. Grant, U.S.D.S. in 1883, and no retracement or resurvey of any part of the Parallel in said Range is of record. The following notes describe a resurvey of the line S. of the E. 1/2 of sec. 36, T. 17 N., R. 19 E.

Retracement for Resurvey.

- From original standard cor. of Ts. 17 N., Rs. 19 and 20 E., hereinbefore described, West, on random line, on S. bdy. of sec. 36 (E. 1/2).
- 14.84 A point 3 lks. S. of the original closing cor. of Ts. 16 N., Rs. 19 and 20 E., hereinafter described, established by M.N. Grant, U.S.D.S. in 1883. True bearing and length of line from Tp. cor. to this closing cor. are therefore N. 89° 52' W., 14.84 chs. Continue line and measurement.
- 40.22 Fall 9 lks. S. of the original std. cor. of sec. 36, T. 17 N., R. 19 E., hereinafter described. True bearing and length of E. 1/2 of S bdy. of sec. 36 are therefore, N. 89° 52' W., 40.22 chs;

Resurvey:

- From the reestablished standard cor. of Ts. 17 N., Rs. 19 and 20 E., hereinbefore described, N. 89° 52' W., on true line on S. bdy. of sec. 36 (E. 1/2). Over gently rolling land, thru. scattering undergrowth. Descend very gradually over NW. slope.
- 4.92 Wash, 10 lks. wide, 3 ft. deep, course NE. Asc. very gradually over SE. slope.
- 14.84 Intersect the original closing cor. of Ts. 16 N., Rs. 19 and 20 E., which is a red sandstone 22x16x2 1/2 ins., loosely set in a mound of stone, marked "CC" on S. face, and 6 notches on each of E. and W. edges, and 6 grooves on S. face. No accessories. Re-set the stone 8 ins. in the ground to bed rock, and raise a mound of stone 2 ft. base, 1 1/2 ft. high, S. of cor.
- 40.22 Intersect the original standard 1/4 sec. cor. of sec. 36, which is a red sandstone, 12x10x4 ins., loosely set, marked "SC 1/4" on N. face. No accessories. Alongside the old cor. stone, set an iron post, 3 ft. long, 1 in. in diam., 20 ins. in the ground for reestablished standard 1/4 sec. cor., of sec. 36, marked on brass cap,

S C  
1/4 S 36  
1920

Dig pits, 18x18x12 ins., E. and W. of post, 5 ft. dist. Land, gently rolling. Soil, sandy and stony, 3rd rate. No timber. Undergrowth, scattering scrub cedar and sage brush.

Dependent Resurvey of part of  
 10 West bdy. of Township 17 North, Range 20, East (S.  $3\frac{1}{2}$  miles)

Chains.

The township boundary was surveyed by John L. Harris, U.S. D.S., in 1879, and retraced by Henry Meyrick, U.S.D.S. in 1883. No subsequent retracement or resurvey of any part of the line is of record. The following notes describe a resurvey of the S.  $3\frac{1}{2}$  miles of the line, using in the retracement for such resurvey the record of said Meyrick retracement for the courses of the random lines.

Retracement for Resurvey.

From the original standard cor. of Ts. 17 N., Rs. 19 and 20 E., on 4th. Standard Parallel North, hereinbefore described,

41.56 N.  $0^{\circ}9'W.$ , on a random line, bet. secs. 31 and 36 (S.  $\frac{1}{2}$ ).  
 Fall 3 lks. E. of the original  $\frac{1}{4}$  sec. cor. of secs. 31 and 36, hereinafter described.

True bearing and length of S. half of line bet. secs. 31 and 36 are therefore, N.  $0^{\circ}12'W.$ , 41.56 chs.

Thence,

39.16 N.  $0^{\circ}24'W.$ , on a random line, bet. secs. 31 and 36 (N.  $\frac{1}{2}$ ).  
 Fall 5 lks. W. of the original cor. of secs. 25, 30, 31 and 36, hereinafter described.

True bearing and length of N.  $\frac{1}{2}$  of line bet. secs. 31 and 36 are therefore, N.  $0^{\circ}20'W.$ , 39.16 chs.

40.27 N.  $0^{\circ}33'W.$ , on a random line, on E. bdy. of sec. 30 (S.  $\frac{1}{2}$ ).  
 Fall 9 lks. W. of the original  $\frac{1}{4}$  sec. cor. of secs. 25, and 30, hereinafter described. True bearing and length of S.  $\frac{1}{2}$  of E. bdy. of sec. 30 are therefore, N.  $0^{\circ}25'W.$ , 40.27 chs.

Thence,

40.27 N.  $0^{\circ}33'W.$ , on a random line on E. bdy. of sec. 30 (N.  $\frac{1}{2}$ ).  
 Fall 9 lks. W. of the original cor. of secs. 19, 24, 25 and 30, hereinafter described.

True bearing and length of N.  $\frac{1}{2}$  of E. bdy. of sec. 30 are therefore, N.  $0^{\circ}25'W.$ , 40.27 chs.

40.29 N.  $0^{\circ}32'W.$ , on a random line, bet. secs. 19 and 24 (S.  $\frac{1}{2}$ ).  
 Fall 8 lks. W. of the original  $\frac{1}{4}$  sec. cor. of secs. 19 and 24, hereinafter described.

True bearing and length of S half of line, bet. secs. 19 and 24 are therefore N.  $0^{\circ}24'W.$ , 40.29 chs.

Thence,

40.00 N.  $0^{\circ}42'W.$ , on a random line, bet. secs. 19 and 24 (N.  $\frac{1}{2}$ ).  
 Diligent search in this vicinity fails to reveal any trace of the original cor. of secs. 13, 18, 19 and 24. Set temp. cor. of said secs.

From temp. cor. of secs. 13, 18, 19 and 24

40.25 N.  $0^{\circ}16'W.$ , on random line, bet. secs. 13 and 18 (S.  $\frac{1}{2}$ ).  
 Set temp.  $\frac{1}{4}$  sec. cor. of secs. 13 and 18, from which the original  $\frac{1}{4}$  sec. cor. of same secs. brs. N.  $70^{\circ}05'W.$ , 158 lks. dist. This tie is used in determining the point for reestablishment of the missing cor. of secs. 13, 18, 19 and 24, as follows:

From temp. cor. of secs. 13, 18, 19 and 24, the reestablished point for cor. of same secs. is N.  $70^{\circ}05'W.$ , 79 lks. dist.

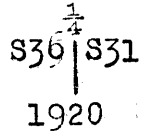
The resulting true courses and lengths of the intervals involved are,

N.  $\frac{1}{2}$  of line, bet. secs. 19 and 24, N.  $1^{\circ}46'W.$ , 40.29 chs.  
 S.  $\frac{1}{2}$  of line bet. secs. 13 and 18, N.  $1^{\circ}19'W.$ , 40.55 chs.

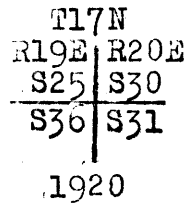
Dependent Resurvey of part of  
West bdy. of Township 17 North, Range 20 East (S. 3 1/2 miles) 11

Chains.

From the reestablished standard cor. of Ts. 17 N., Rs. 19 and 20 E., on the 4th. Standard Parallel North, hereinbefore described,  
 N. 0° 12' W., on true line, bet. secs. 31 and 36.  
 Over gently rolling land, thru. scattering undergrowth.  
 Descend very gradually over NW slope.  
 8.76 Wash, 8 lks. wide, 3 ft. deep, course NE. Ascend very gradually over SE slope.  
 20.60 Low sandy ridge, brs. NE. and SW. Desc. very gradually over NW slope.  
 35.00 Draw, course NE. Ascend very gradually over SE slope.  
 41.56 Intersect the original 1/4 sec. cor. of secs. 31 and 36, which is a sandstone, 14x12x4 ins. above ground, marked "1/4 S" on W. face. No accessories.  
 Alongside of the old stone, set an iron post 3 ft. long, 1 in. in diam., 26 ins. in the ground, for reestablished 1/4 sec. cor. of secs. 31 and 36, marked on brass cap,



Dig pits, 18x18x12 ins., N. and S. of post, 3 ft. dist.  
 Thence,  
 N. 0° 20' W. on true line, bet. secs. 31 and 36 (N. 1/2)  
 Over gently rolling land, thru. scattering undergrowth.  
 Ascend very gradually, over SE slope.  
 15.00 Low sandy spur, slopes E. Descend very gradually, over N. slope.  
 35.00 Draw, 200 lks. wide, course NE. Ascend very gradually over E. slope.  
 39.16 Intersect the original cor. of secs. 25, 30, 31 and 36, which is a cedar post, 2 ins. sq., 1 1/2 ft. long, in a mound of earth, marked "TXVIIN, RXXE, XXX" on NE. face, "XXXI" on SE. face, "XXX" on SW. face, 5 notches on N. edge, and 1 notch on S. edge. Other marking illegible.  
 Destroy old mound of earth, in center of its position, re-set old post, 12 ins. in ground, and alongside same, Set an iron post 3 ft. long, 2 ins. in diam., 24 ins. in the ground, for reestablished cor. of secs. 25, 30, 31 and 36, marked on brass cap,



Dig pits, 18x18x12 ins., in each sec. NE., SE., SW. and NW. of post, 3 ft. dist.  
 Land, gently rolling.  
 Soil, sandy and gravelly loam, 2nd and 3rd rate.  
 No timber.  
 Undergrowth, scattering scrub cedar, and sage brush.

N. 0° 25' W., on true line, bet. secs. 25 and 30.  
 Over gently rolling land, along E. slope, thru. scattering undergrowth.  
 40.00 Set an iron post, 3 ft. long, 1 in. in diam., 6 ins. in the ground, over cross (x) on bedrock, supported in a mound of stone 5 ft. base, 2 1/2 ft. high for reestablished 1/4 sec. cor. of sec. 30 only, marked on brass cap,

Dependent Resurvey of part of West bdy. of Township 17 North, Range 20 East (S. 3 1/2 miles)

Chains.

1/4 S30

1921

40.27 Raise a mound of stone, 2 ft. base, 1 1/2 ft. high, E. of cor. Intersect the original 1/4 sec. cor. of secs. 25 and 30, which is a stake, greatly decayed, in center of small mound of earth and stone, with trace of two pits, one each N. and S. of post, 5 1/2 ft. dist.

Destroy old mound of earth and stone, and in center of its position, set an iron post 3 ft. long, 1 in. in diam., 8 ins. in the ground over a cross (x) on bedrock, and supported in a mound of stone 4 ft. base, 2 ft. high, with old stake alongside, for reestablished 1/4 sec. cor. of sec. 25 only, marked on brass cap,

1/4 S25

1920

80.54 Raise a mound of stone, 2 ft. base, 1 1/2 ft. high, W. of cor. Continue line and measurement. Over gently rolling land, along E. slope, thru. scattering undergrowth. Intersect the original cor. of secs. 19, 24, 25 and 30, which is a cedar stake, 2 ft. long, 2 ins. sq., set in center of small mound of stone, marked "TXVIIN" on NE. face, 4 notches on N. edge, and 2 notches on S. edge.

Other markings illegible. Destroy old mound of stone, and in center of its position, reset old post 12 ins. in ground, and alongside same, set an iron post 3 ft. long, 2 ins. in diam., 24 ins. in the ground, for reestablished cor. of secs. 19, 24, 25 and 30, marked on brass cap,

T17N  
R19E R20E  
S24 S19

S25 S30  
1920

Dig pits, 18x18x12 ins., in each sec. NE., SE., SW. and NW. of cor.

Land, gently rolling.  
Soil, sandy and gravelly, 2nd and 3rd rate.  
No timber.  
Undergrowth, scattering scrub cedar and sage brush.

40.29 N. 0°24' W., on true line, bet. secs. 19 and 24 (S. 1/2). Over gently rolling land, along E. slope, thru. scattering undergrowth.

Intersect the original 1/4 sec. cor. of secs. 19 and 24, which is a sandstone, 12x12x4 ins. above ground, firmly set, marked "1/4 S" on W. face, midway between two pits, one each N. and S. of cor., 3 ft. dist. No bearing trees.

Thence, N. 1°46' W., on a true line, bet. secs. 19 and 24 (N. 1/2). Over gently rolling land, ascending slightly over SE. slope, thru. scattering undergrowth.

30.00 Stony spur, slopes E. Desc. very gradually over NE. slope.

40.29 The reestablished point for cor. of secs. 13, 18, 19 and 24,

N. 70°05' W., 79 lks. dist. from the temp. cor. Set an iron post 3 ft. long, 2 ins. in diam., 24 ins. in the ground, for reestablished cor. of secs. 13, 18, 19 and 24, marked on brass cap.

T17N  
R19E R20E  
S13 S18

S24 S19  
1921

Dependent Resurvey of part of the  
West bdy. of Township 17 North Range 20 East ( S. 3 1/4 miles)

13

Chains.

Dig pits, 18x18x12 ins., NE., SE., SW. and NW. of cor. 3 ft. dist.

Land, gently rolling.

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

No timber.

Undergrowth, scattering scrub cedar and sage brush.

0

N. 1° 19' W., on true line, bet. secs. 13 and 18, (S. 1/4).

Over gently rolling land, descending slightly, over NE. slope, thru. scattering undergrowth.

40.53

Intersect the original 1/4 sec. cor. of secs. 13 and 18, which is a sandstone 22x5 ins. firmly set in a mound of earth and stone, marked "1/4 S" on W. face. No accessories.

Land, gently rolling.

Soil, sandy and gravelly, 3rd rate.

No timber.

Undergrowth, scattering sage brush.

Dependent Resurvey of part of the  
14. Subdivision lines of Township 17 North, Range 20 East.

Chains.

The subdivision lines of this township, except line bet. secs.19 and 30, bet. secs.28 and 29, bet. secs.29 and 30, bet. secs.30 and 31, bet. secs.31 and 32, bet. secs.29 and 32, bet. secs.32 and 33, bet. secs.28 and 33, and bet. secs.33 and 34 were surveyed by John L. Harris, U.S.D.S. in 1879, and no retracement or resurvey of any part of same is of record. The exceptions noted are lines which have never been surveyed, the survey of which is executed under instructions for this group, as hereinafter described.

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Retracement for Resurvey.

- From reestablished standard cor. of secs.34 and 35, on 4th Standard Parallel North, hereinbefore described, North, on random line, bet. secs.34 and 35.
- 40.00 Diligent search in this vicinity fails to reveal any trace of the original  $\frac{1}{4}$  sec.cor. of secs. 34 and 35. Set temp. $\frac{1}{4}$  sec.cor.
- 80.04 Intersect the point of original location of the cor.of secs. 26,27, 34 and 35, determined as hereinafter described.  
True bearing and length of line bet.secs.34 and 35 are therefore,North, 80.04 chs.
- 
- From point of original location of cor.of secs.26,27,34 and 35,  
West,on random line, bet.secs.27 and 34 (E. $\frac{1}{2}$ ).
- 40.32 Fall 20 lks.N.of the original  $\frac{1}{4}$  sec.cor. of secs.27 and 34, hereinafter described.  
True bearing and length of E. $\frac{1}{2}$  of line, bet. secs. 27 and 34, are therefore S.89° 43'W.,40.32 chs.  
Thence,
- 40.17 West, on a random line on S.bdy.of sec. 34 (W. $\frac{1}{2}$ ).  
Fall 5 lks.S. of the point of original location of the cor.of secs. 27, 28, 33 and 34, determined as hereinafter described.  
True bearing and length of W. $\frac{1}{2}$  of S.bdy.of sec.34 are therefore N.89°56'W.,40.17 chs.
- 
- North,on a random line, bet. secs.27 and 28 (S. $\frac{1}{2}$ ).
- 37.60 Fall 54 lks.E. of the original  $\frac{1}{4}$  sec.cor.of secs.27 and 28, hereinafter described.  
True bearing and length of S.half of line,bet.secs.27 and 28 are therefore, N.0° 50'W., 37.60 chs.  
Thence,
- 40.91 North,on a random line, bet. secs.27 and 28 (N. $\frac{1}{2}$ ).  
Fall 11 lks.W. of the original cor.of secs.21,22,27 and 28, hereinafter described.  
True bearing and length of N. $\frac{1}{2}$  of line, bet. secs.27 and 28 are therefore,N.0°09'E., 40.91 chs.
- 
- West, on a random line, bet. secs.21 and 28 (E. $\frac{1}{2}$ ).
- 41.36 Fall 75 lks.S.of the original  $\frac{1}{4}$  sec.cor.of secs.21 and 28, hereinafter described.  
True bearing and length of E. $\frac{1}{2}$  of line, bet. secs. 21 and 28 are therefore, N.88°58' W.,41.37 chs.  
Thence,
- 40.33 West,on a random line,on S.bdy.of sec.21 (W. $\frac{1}{2}$ ).  
Fall 15 lks.N. of the point of original location of cor. of secs. 20,21,28 and 29,hereinafter described.  
True bearing and length of W. $\frac{1}{2}$  of S.bdy.of sec.21 are



Dependent Resurvey of part of the  
Subdivision lines of Township 17 North, Range 20 East. 15

Chains.	therefore, S.89° 47'W., 40.33 chs.
40.42	West, on a random line, on S.bdy. of sec.20 (E.½). Fall 24 lks.N. of the original ¼ sec.cor. of secs.20 and 29, hereinafter described. True bearing and length of E.½ of S bdy.of sec.20 are therefore S.89° 40'W., 40.42 chs. Thence,
40.04	West, on a random line, on S.bdy.of sec.20 (W.½). Fall 58 lks.S. of the original cor.of secs. 19,20,29 and 30, hereinafter described. True bearing and length of W.½ of S.bdy.of sec.20 are therefore, N.89°10'W., 40.04 chs.
40.00	North, on a random line, bet. secs.19 and 20. After diligent search in this vicinity, find the old wood cor.post lying on the ground, but no trace of accessories. Therefore, being unable to locate the original point of location of the cor., set temp.¼ sec.cor., and continue line and measurement.
80.12	Fall 58 lks.E. of the original cor.of secs. 17,18,19 and 20, hereinafter described. True bearing and length of line bet. secs.19 and 20 are therefore, N.0° 25'W., 80.12 chs.
40.00	N.89°51'W., on random line,bet.secs. 18 and 19. After diligent search in this vicinity, find the old stone cor. monument lying on the ground, but no trace of accessories from which to determine the cor.point, Set temp.¼ sec.cor. Continue line and measurement.
79.28	Fall 34 lks.S.of the cor. of secs. 13,18, 19 and 24 on W.bdy.of Tp., hereinbefore described. True bearing and length of line bet. secs.18 and 19,are therefore S.89° 20'E., 79.28 chs.
<u>RESURVEY.</u>	
18.00	From the reestablished standard cor.of secs. 34 and 35 on S. bdy.of Tp., (4th.Std.Par.N.), hereinbefore described, North, on true line, bet. secs. 34 and 35. Over gently rolling land, thru. scattering undergrowth. Descend gradually over NW.slope.
24.50	Dim road, bra.NE and SW.
40.02	Wash, 5 lks.wide; 3 ft.deep,course NW. (Mid-point), Set an iron post, 3 ft.long, 1 in. in diam., with marked stone, 15 ins.in the ground, supported in a mound of stone, 3½ ft.base, 1½ ft.high, for reestablished ¼ sec.cor. of secs.34 and 35, marked on brass cap,
$\frac{1}{4}$ S34   S35 1921	
80.04	Raise a mound of stone, 2 ft.base, 1½ ft. high, W.of cor. Descend gradually over NW.slope. Intersect point of original location of cor. of secs.20, 27,34 and 35, located from the record bearing and dist.(N.68°W.,129 lks.)to the stump of the original bearing tree, which has been chopped down. Set an iron post, 3 ft.long, 2 ins. in diam., over

16 Dependent Resurvey of part of  
Subdivision lines of Township 17 North, Range 20 East.

Chains.

cross (x) on bedrock, 5 ins. in the ground, supported in a mound of stone, 5 ft. base, 2½ ft. high for reestablished cor. of secs. 26, 27, 34 and 35, marked on brass cap,

T17N | R20E  
S27 | S26  
S34 | S35

1921

Raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor. The stump of the original bearing tree, a cedar, 6 ins. in diam., brs. N. 68° W., 129 lks. dist., marked "BT."  
Land, gently rolling.  
Soil, sandy and stony, 3rd and 4th rate.  
No timber.  
Undergrowth, scattering sage brush.

11.33 S. 89° 43' W.; on true line, bet. secs. 27 and 34 (E. ½).  
Over gently rolling land, thru. scattering small timber and undergrowth. Ascend very gradually over E. slope.  
Low ridge, brs. N. and S. Desc. very gradually over W. slope.

26.08 Wash, course N. Ascend very gradually over E. slope.

40.32 Intersect the original ¼ sec. cor. of secs. 27 and 34, which is a sandstone 24x8x2 ins., loosely set in a mound of stone, marked "¼" on N. face. No accessories. Destroy old mound of stone, and in center of its position, reset the old cor. stone, 16 ins. in the ground, and alongside same, set an iron post 3 ft. long, 1 in. in diam., 26 ins. in the ground for reestablished ¼ sec. cor. of secs. 27 and 34, marked on brass cap,

1/4 S 27  
S 34  
1920

11.70 Raise a mound of stone, 2 ft. base, 1½ ft. high, N. of cor. Thence, mound of stone, 5 ft. base, 1½ ft. high, N. 89° 56' W., on true line on S. bdy. of sec. 27 (W. ½).  
Over gently rolling land, thru. scattering small timber and undergrowth. Asc. very gradually over E. slope.  
Low ridge, brs. N. and S. Desc. very gradually over W. slope.

40.17 Intersect the point of original location of cor. of secs. 27, 28, 33 and 34, located from the record bearing and distance to the stump of the original bearing tree. This point falls on barren surface rock; therefore, cut a cross (x) at the exact cor. point, and over cross (x) set an iron post 3 ft. long, 2 ins. in diam., supported in a mound of stone 6 ft. base, 2½ ft. high for reestablished cor. of secs. 27, 28, 33, and 34, marked on brass cap.

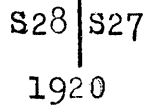
T17N | R20E  
S28 | S27  
S33 | S34  
1920

The stump of original bearing tree 10 ins. in diam., brs. N. 40° E., 40 lks. dist., marked "BT."  
No other trees suitable for bearing trees available.  
Raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor. Land, gently rolling.  
Soil, sandy and stony, 3rd and 4th rate.  
Timber, scattering small cedar.  
Undergrowth, scattering scrub cedar and sage brush.

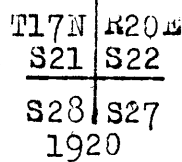
Dependent Resurvey of part of  
Subdivision lines of Township 17 North, Range 20 East. 17

Chains.

N.0° 59'W., on true line, bet. secs.27 and 28 (S.½).  
Over gently rolling land, thru. scattering small timber  
and undergrowth. Asc. very gradually over S.slope.  
15.00 Low spur, slopes S.50°W. Desc. very gradually over NW.  
slope.  
37.60 Intersect the original ¼ sec.cor. of secs.27 and 28, which  
is a soft sandstone, 24x18x3 ins., loosely set in a mound  
of stone, marked "¼" on W.face. No accessories.  
Alongside of the old stone, set an iron post, 3 ft.long,  
1 in. in diam., supported in a mound of stone, 5 ft.  
base, 2 ft. high, 6 ins. in the ground over cross (x)  
on bed rock for reestablished ¼ sec.cor.of secs.27 and  
28, marked on brass cap,

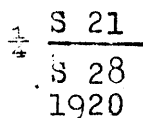


Raise a mound of stone, 2 ft.base, 1½ ft.high, W.of cor.  
Thence,  
N.0°09'E, on true line, bet. secs. 27 and 28 (N.½).  
Over gently rolling land, thru scattering small timber  
and undergrowth. Desc. very gradually over NW.slope.  
40.91 Intersect the original cor.of secs. 21,22, 27 and 28, which  
is a cedar post, 4 ins. square, projecting 2 ft.above  
ground, greatly decayed, marks obliterated, with 3  
notches on E.edge and 2 notches on S.edge. No acces-  
sories.  
Alongside of the old post, set an iron post 3 ft.long,  
2 ins. in diam., 24 ins. in the ground for reestab-  
lished cor.of secs., 21,22,27 and 28 , marked on  
brass cap,



Dig pits, 18x18x12 ins. in each sec. NE., SE., SW. and NW.  
of post, 3 ft. dist.  
Land gently rolling.  
Soil, sandy and stony, 3rd and 4th rate.  
Timber, scattering small cedar.  
Undergrowth, scattering scrub cedar, and sage brush.

N.88° 58' W., on true line, bet. secs.21 and 28 (E.½).  
Over gently rolling land, thru scattering small timber,  
and undergrowth. Desc.very gradually over NW.slope.  
2.90 Wood road, brs.NE and SW.  
29.40 Wash, 50 lks.wide, course N.50°W. Thence over N.slope.  
37.30 Wash, 20 lks.wide, 2 ft. deep, course N. Asc. very grad-  
ually over E.slope.  
41.37 Intersect the remains of original ¼ sec.cor. of secs.21  
and 28, which is the decayed end of a cedar post, set  
in a mound of stone. No accessories.  
Destroy old mound of stone, reset old post in ground, and  
alongside of same, set an iron post 3 ft.long, 1 in.  
in diam., 20 ins. in the ground, for reestablished ¼  
sec.cor. of secs.21 and 28, marked on brass cap,

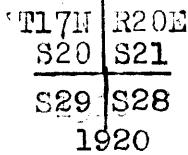


Raise a mound of stone, 2 ft.base, 1½ ft.high, N.of cor.  
Thence,  
S.89°47'W., on true line, on S. bdy. of sec. 21 (W.½).

18 Dependent Resurvey of part of  
Subdivision lines of Township 17 North, Range 20 East.

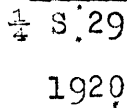
Chains.

26.10 Over gently rolling land, thru. scattering small timber  
and undergrowth. Ascend very gradually over SE slope.  
40.33 Low spur, slopes SW. Desc. gradually over NW. slope.  
Intersect the point of original location of cor. of secs.  
20, 21, 28 and 29, located from the record bearing and  
dist. to the stump of the original bearing tree, which  
has been cut down. This point falls on barren surface  
rock, alongside of small mound of stone; therefore, at  
exact cor. point, cut a cross (x), and over cross (x)  
set an iron post 3 ft. long, 2 ins. in diam., supported  
in a mound of stone 6 ft. base, 2½ ft. high, for reestab-  
lished cor. of secs. 20, 21, 28 & 29, marked on brass cap,

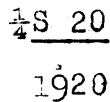


The stump of the original bearing tree, a cedar 10 ins. in  
diam., brs. N 78° E., 88 lks. dist., marked "BT."  
Raise a mound of stone 2 ft. base, 1½ ft. high, W. of cor.  
Land, gently rolling.  
Soil, sandy and stony, 3rd and 4th rate.  
Timber, scattering small cedar.  
Undergrowth, scattering scrub cedar and sage brush.

18.75 S. 89° 40' W., on a true line, on S. bdy. of sec. 20 (E. ½).  
39.99 Over gently rolling land, thru. scattering small timber  
and undergrowth. Desc. very gradually over NW. slope.  
Old wood road, brs. NE. and SW.  
(Midpoint of N. bdy. of sec. 29, 39.99 chs. westing from  
cor. of secs. 28 and 29). This point falls on  
barren surface rock; therefore, at exact cor. point,  
cut a cross (x), and over cross (x) set an iron post,  
3 ft. long, 1 in. in diam., supported in a mound of  
stone 6 ft. base, 2½ ft. high, for reestablished ¼ sec.  
cor. of sec. 29 only, marked on brass cap,



40.42 Raise a mound of stone, 2 ft. base, 1½ ft. high, S. of cor.  
Intersect the original ¼ sec. cor. of secs. 20 and 29, which  
is a sandstone 18x10x3 ins. loosely set in a mound of  
stone, marked "¼" on N. face, and witnessed by one  
bearing tree, a cedar, 6 ins. in diam., S. 23 lks. dist.,  
marked "¼ S".  
Alongside of old stone, set an iron post, 3 ft. long, 1 in.  
in diam., 8 ins. in the ground, over cross (x) on bed-  
rock, and supported in a mound of stone 5 ft. base, 2  
ft. high, for reestablished ¼ sec. cor. of sec. 20  
only, marked on brass cap,



Raise a mound of stone, 2 ft. base, 1½ ft. high, N. of  
cor.  
Thence,  
N. 89° 10' W. on true line on S. bdy. of sec. 20 (W. ½).  
Over gently rolling land, over barren surface rock.  
Descend gradually over NW. slope.  
16.30 Rocky wash, 10 lks. wide, course N. 10° E. Asc. very gradually  
over NE. slope.  
40.04 Intersect the original cor. of secs. 19, 20, 29 and 30,  
which is a sandstone shaft 48x10x3 ins., set in a  
mound of stone, marked with 5 notches on E. edge, and  
2 notches on S. edge.

1989

19

Dependent Resurvey of part of  
Subdivision lines of Township 17 North, Range 20 East.

Chains.

Alongside of the old stone, set an iron post, 3 ft. long, 2 ins. in diam., 10 ins. in the ground over cross (x) on bed rock, and supported in a mound of stone 6 ft. base, 2 ft. high, for reestablished cor. of secs. 19 and 20 only, marked on brass cap,

T17N	R20E
S19	S20

1920

Raise a mound of stone, 2 ft. base, 1½ ft. high, N. of cor. Land, gently rolling.

Soil, stony, 4th rate in E. half. No soil in W. ½.

Timber, scattering small cedar in E. ½.

Undergrowth, scattering scrub cedar and sage brush in E. ½. Barren in W. ½.

N. 0° 25' W., on true line, bet. secs. 19 and 20.

Over gently rolling land, thru. scattering small timber and undergrowth. Descend very gradually over NE. slope.

20.00 Leave timber, brs. NE. and SW.

40.06 (Midpoint), Reset the original wood cor. post in ground, and alongside same, Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in the ground, for reestablished ¼ sec. cor. of secs. 19 and 20, marked on brass cap,

S19	S20
-----	-----

1920

Dig pits, 18x18x12 ins., N. and S. of post, 3 ft. dist., Continue gradual descent, over NE. slope, along E. side of old wire fence line, bearing N. and S.

80.12 Intersect the original cor. of secs. 17, 18, 19 and 20, which is a cedar stake 2 ins. sq., driven in the ground alongside of post at cor. of old wire fence lines, which bear N., S.E. and W., marked "TXVII" on NE. face, "XXEIX" on SE. face, 5 notches on E. edge and 3 notches on S. edges  
Alongside old stake, set an iron post, 3 ft. long, 2 ins. in diam., 24 ins. in the ground, for reestablished cor. of secs. 17, 18, 19 and 20, marked on brass cap,

T17N	R20E
S18	S17

S19	S20
-----	-----

1921

Raise a mound of stone 2 ft. base, 1½ ft. high, W. of cor. Land, gently rolling.

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

Timber, scattering small cedar in S. 20 chs. None elsewhere.

Undergrowth, scattering scrub cedar and sage brush.

From reestablished cor. of secs. 17, 18, 19 and 24 on W. bdy. of Tp., hereinbefore described,

S. 89° 25' E., on true line, bet. secs. 18 and 19.

Over gently rolling land, along N. slope with little change in elevation, thru. scattering undergrowth.

26.28 Wash, 20 lks. wide, course N. 20° E. Asc. gradually over W. slope.

39.40 Low spur, slopes NW. Desc. very gradually over NE. slope.

20 Dependent Resurvey of part of  
Subdivision lines of Township 17 North, Range 20 East,

Chains.  
39.53 (Proportional dist.), Reset the old stone cor. monument, which is a sandstone 14x7x3 ins., marked "1/4" on one face, found lying on ground nearby, and alongside same, set an iron post, 3 ft. long, 1 in. in diam., 20 ins. in the ground, for reestablished 1/4 sec. cor. of secs. 18 and 19, marked on brass cap,

1/4 S 18  
S 19  
1921

Raise a mound of stone, 2 ft. base, 1 1/2 ft. high, N. of cor. Continue very gradual descent, over NE. slope, nearly parallel to old wire fence S. of line.

79.28 Intersect the reestablished cor. of secs. 17, 18, 19 and 20. Land, gently rolling. Soil, sandy and stony, 3rd and 4th rate. No timber. Undergrowth, scattering sage brush.

Boundaries of secs. 19, 28, 29, 30, 31, 32, 33 and 34, Township 17 North, Range 20 East.

Latitudes, Departures, and Closing Errors.

Line designated.	True bearing.	Dist.	Latitudes.		Departures.	
			N.	S.	E.	W.
South boundary, (4th. Std. Par. N.)	N. 89° 48' W.	37.82	.14			37.82
	S. 89° 52' W.	41.48		.10		41.48
	S. 89° 46' W.	40.22		.16		40.22
	S. 89° 37' W.	40.34		.27		40.34
	S. 89° 31' W.	39.50		.34		39.50
	N. 89° 54' W.	40.38	.07			40.38
	S. 89° 29' W.	40.26		.36		40.26
	S. 89° 30' W.	40.32		.35		40.32
West boundary,	N. 0° 02' W.	41.56	41.56			.14
	N. 0° 20' W.	39.16	39.16			.24
	N. 0° 25' W.	80.54	80.54			.58
	N. 0° 24' W.	40.29	40.29			.28
	N. 1° 46' W.	40.29	40.27			1.25
Subdivisional boundary,	S. 89° 26' E.	79.28		.78	79.28	
	S. 0° 25' E.	80.12		80.12	.58	
	S. 89° 10' E.	40.04		.58	40.04	
	N. 89° 40' E.	40.42	.24		40.42	
	N. 89° 47' E.	40.33	.15		40.33	
	S. 88° 58' E.	41.37		.75	41.36	
	S. 0° 09' W.	40.91		40.91		.11
	S. 0° 50' E.	37.60		37.60	.55	
	S. 89° 56' E.	40.17		.05	40.17	
	N. 89° 43' E.	40.32	.20		40.32	
South,	80.04		80.04			
Convergency,					.11	
Totals,			242.62	242.41	323.16	322.92
			242.41		322.92	
Error in latitude,			0.21			
Error in departure,					0.24	

Survey of Part (Completion) of the Subdivision  
Lines of T.17 N., R.20 E.

Chains	From the Std. cor. of secs. 33 and 34 on S. bdy. of Tp., North, on a random line bet. secs. 33 and 34.
40.00	Set temp. $\frac{1}{4}$ sec. cor.
80.00	Fall 97 lks. E. of the cbr. of secs. 27, 28, 33 and 34.
	Thence
	S. $0^{\circ}42'E.$ , on a true line bet. secs. 33 and 34.
40.00	Over rolling land, thru scattering timber and undergrowth. (Mid-point) Set an iron post, 3 ft. long, 1 in. in diam., over cross (X) on surface rock, supported in a mound of stone for $\frac{1}{4}$ sec. cor., marked on brass cap
	$\frac{1}{4}$
	S 33   S 34
	1920-
43.00	N. rim of box canyon, 50 ft. deep, bears NW. and SE.
44.78	Dry bed of creek, 25 lks. wide in bottom of canyon, course NW. Asc.
46.00	S. rim of canyon, bears NW. and SE. Thence over rolling land, thru scattering timber and undergrowth.
80.00	The standard cor. of secs. 33 and 34 on S. bdy. of Tp., hereinbefore described.
	Land; rolling and broken. Soil; sandy and stony, 3d. and 4th. rates. Timber; scattering cedar. Undergrowth; scattering sagebrush.
240.38	From the cor. of secs. 27, 28, 33 and 34; West, on a random line on S. bdy. of secs. 28, 29 and 30, setting temp. $\frac{1}{4}$ sec. and sec. cors. at intervals of 40.00 chs. and at Fall 84 lks. N. of the cor. of secs. 25, 30, 31 and 36, hereinbefore described. The true course and length of this line are therefore S. $89^{\circ}48'W.$ , 240.38 chs.
40.00	From the cor. of secs. 20, 21, 28 and 29, South, on a random line bet. secs. 28 and 29. Set temp. $\frac{1}{4}$ sec. cor.
79.46	Intersect E. and W. line 221 lks. S. $89^{\circ}48'W.$ , of the temp. cor. of secs. 28 and 29. At point of intersection, set an iron post, 3 ft. long, 2 ins. in diam., over cross (X) on bed rock, supported in a mound of stone for cor. of secs. 28 and 29 only, marked on brass cap
	T17N R20E S 29   S 28 ----- S 32
	1920
	Thence
	North, on a true line bet. secs. 28 and 29.
	Over rolling land, thru scattering timber and undergrowth. Desc. over gradual NE. slope.
23.30	South rim of box canyon, 75 ft. deep, course N. $70^{\circ}E.$
25.00	Dry bed of creek, 25 lks. wide, in bottom of canyon, course NE.
26.00	North rim of canyon, bears E. and W.
39.46	(40.00 chs. S. of the cor. of secs. 20, 21, 28 and 29) Set an iron post, 3 ft. long, 2 ins. in diam., 5 ins. in the ground to bed rock, deposit a stone marked with a cross (X) alongside and raise a mound of stone, 4 ft. base, 2 ft. high around post for $\frac{1}{4}$ sec. cor. of sec.

BOOK 3539

Survey of Part (Completion) of the Subdivision  
Lines of T.17 N., R.20 E.

Chains	28 only, marked on brass cap
	 $\frac{1}{4}$ S 28
	1920
40.00	Set an iron post, 3 ft. long, 1 in. in diam., 27 ins. in the ground for $\frac{1}{4}$ sec. cor. of sec. 29 only; marked on brass cap
	 $\frac{1}{4}$ S 29
	1920
	2 ft. base, $1\frac{1}{2}$ ft. high W. of cor. <span style="float: right;">Raise a mound of stone,</span>
79.46	The cor. of secs. 20, 21, 28 and 29.
	Land; rolling and broken. Soil; sandy and stony, 3rd. and 4th. rates. Timber; scattering cedar. Undergrowth; sagebrush and cedar.
14.50	From the cor. of secs. 27, 28, 33 and 34, S.89°48'W., on a true line bet. secs. 28 and 33. Over rolling land, thru scattering timber and undergrowth. E. rim of box canyon, 60 ft. deep, bears N.10°W. and S.10°E.
16.60	Dry bed of creek, 25 lks. wide, in bottom of canyon, course N.10°W.
19.15	W. rim of canyon, bears N.10°W. and S.10°E. Asc. over NE. slope.
39.23	(40.00 chs. E. of the closing cor. of secs. 32 and 33 hereinafter described) Set an iron post, 3 ft. long, 1 in. in diam., 4 ins. in the ground to bed rock, deposit stone marked cross (X) alongside and raise a mound of stone 4 ft. base, $2\frac{1}{2}$ ft. high around post for $\frac{1}{4}$ sec. cor. of sec. 33 only, marked on brass cap
	<u><math>\frac{1}{4}</math> S 33</u>
	1920
40.00	Set an iron post, 3 ft. long, 1 in. in diam., 6 ins. in the ground over cross (X) on bed rock, supported in a mound of stone 5 ft. base, 2 ft. high, for $\frac{1}{4}$ sec. cor. of sec. 28 only, marked on brass cap
	<u><math>\frac{1}{4}</math> S 28</u>
	1920
50.00	E. rim of ravine, bears N. and S. Desc.
52.35	Bottom of ravine, 30 ft. deep, course N. Asc.
55.00	W. rim of ravine, bears N. and S. Asc. over gradual E. slope.
73.80	Point of stony spur, slopes N. Desc. gradually over W. slope.
76.00	Rocky ravine, 20 lks. wide, course N. Asc. 12 ft. over E. slope to
82.21	Intersect the cor. of secs. 28 and 29.
	Land; rolling and hilly. Soil; sandy and stony, 3rd. and 4th. rates. Timber; scattering cedar. Undergrowth; sagebrush and cedar.



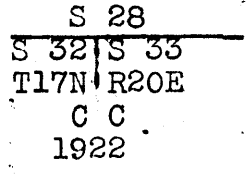
Survey of part (completion) of  
Subdivision lines of Township 17 North, Range 20 East.

Chains

From the reestablished Std. cor. of secs. 32 and 33, on S. bdy. of Tp., N.0°02'W., on a random line bet. secs. 32 and 33.

40.00  
80.20

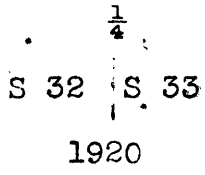
Set temp. 1/4 sec. cor.  
Intersect the S. bdy. of sec. 28, 2.98 chs. N.89°48'E., of the cor. of secs. 28 and 29, hereinbefore described. At point of intersection, set an iron post, 3 ft. long, 2 ins. in diam., over cross (X) on bed rock, supported in a mound of stone, 5 ft. base, 2 1/2 ft. high for closing cor. of secs. 32 and 33, marked on brass cap



Thence S.0°02'E., on a true line bet. secs. 32 and 33. Over rolling land, thru scattering timber and undergrowth. Asc. over NE. slope.

30.00  
40.00

Sand ridge, bears NW. and SE. Desc. over SW. slope. Set an iron post, 3 ft. long, 1 in. in diam., over cross (X) on bed rock, supported in a mound of stone, 4 ft. base, 2 1/2 ft. high for 1/4 sec. cor. marked on brass cap



50.00  
80.20

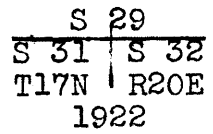
Draw, 25 lks. wide, course NW. Asc. NW. slope. The Std. cor. of secs. 32 and 33, on S. bdy. of Tp. hereinbefore described.

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

From the Std. cor. of secs. 31 and 32 on S. bdy. of Tp., N.0°03'W., on a random line bet. secs. 31 and 32.

40.00  
80.30

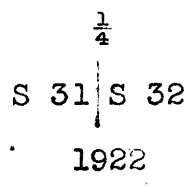
Set temp. 1/4 sec. cor.  
Intersect S. bdy. of sec. 29, 2.74 chs. N.89°48'E., of the cor. of secs. 29 and 30, hereinafter described. At point of intersection, set an iron post, 3 ft. long, 2 ins. in diam., 27 ins. in the ground with stone marked cross (X) alongside for cor. of secs. 31 and 32, marked on brass cap



Thence S.0°03'E., on a true line bet. secs. 31 and 32. Over rolling land, thru scattering timber and undergrowth.

40.15

(AT mid-point) Mark a cross (X) on bed rock at exact cor. point and over same set an iron post, 3 ft. long, 1 in. in diam., supported in a mound of stone, 4 ft. base 2 ft. high for 1/4 sec. cor. marked on brass cap



BOOK 2030

Survey of Part (Completion) of the Subdivision  
Lines of T.17 N., R.20 E.

Chains	
80.30	The 3rd. cor. of secs. 31 and 32 on S. bdy. of Tp., here- inbefore described.  Land; rolling. Soil; sandy, 2nd. and 3d. rates. Timber; scattering cedars. Undergrowth; sagebrush.
19.60	From the cor. of secs. 28 and 29, hereinbefore described, S.89°48'W., on a true line on S. bdy. of sec. 29. Over rolling land, thru scattering timber and undergrowth.
22.80	East rim of box canyon, 80 ft. deep, bears N. and S. Desc. Cross dry bed of creek, 30 lks. wide, in bottom of canyon, course N. Asc.
24.35	West rim of box canyon, bears N. and S.
37.14	(Mid way bet. NE. and NW. cors. of sec. 32) Mark a cross (X) on bed rock at exact cor. point and over same, set an iron post, 3 ft. long, 1 in. in diam., supported in a mound of stone for $\frac{1}{4}$ sec. cor. of sec. 32 only marked on brass cap  $\frac{1}{4}$ S 32  1922
40.00	Set an iron post, 3 ft. long, 1 in. in diam., over a cross (X) on bed rock, supported in a mound of stone, for $\frac{1}{4}$ sec. cor. of sec. 29 only marked on brass cap  $\frac{1}{4}$ S 29  1922
60.05	Wood road, bears NE. and SW.
62.90	Branch of same road, bears NE. and SW.
75.00	Top of hill, bears NE. and SW. Desc. over NW. slope.
77.26	Intersect the closing cor. of secs. 31 and 32, herein- before described.
80.00	Set an iron post, 3 ft. long, 2 ins. in diam., 27 ins. in the ground, deposit a stone marked with a cross (X) alongside, for cor. of secs. 29 and 30 only, marked on brass cap  T17N R20E S 30 S 29 S 31  1922  Land; rolling and broken. Soil; sandy and stony, 3rd. and 4th. rates. Timber; scattering cedar. Undergrowth; sagebrush and cedar.
38.16	S.89°48'W., on a true line on S. bdy. sec. 30. Over rolling land. (40.00 chs. easterly from cor. of secs. 25, 30, 31 and 36 on W. bdy. of Tp.) Set an iron post, 3 ft. long, 1 in. in diam., 27 ins. in the ground, deposit a stone marked cross (X) alongside for $\frac{1}{4}$ sec. cor. marked on brass cap  $\frac{1}{4}$ S 31  1922
40.00	Set an iron post, 3 ft. long, 1 in. in diam., 27 ins. in the ground, deposit a stone marked with a cross (X)

Survey of part (completion) of the  
Subdivision lines of Township 17 North, Range 20 East. 25

Chains.

alongside base of post, for  $\frac{1}{4}$  sec. cor. of sec. 30, marked on brass cap,

$\frac{1}{4}$  S 30  
1922

78.16 The cor. of secs. 25, 30, 31 and 36 on W. bdy. of Tp., here-  
inbefore described.  
Land, rolling.  
Soil, sandy, 2nd and 3rd rate.  
No timber or undergrowth.

-----  
From the cor. of secs. 19 and 20, hereinbefore described,  
West, on a random line on S. bdy. of sec. 19.

40.00 Set temp.  $\frac{1}{4}$  sec. cor.  
78.16 Fall 25 lks. S. of the cor. of secs. 19, 24, 25 and 30, on W.  
bdy. of Tp., hereinbefore described.

Thence,  
S. 89° 49' E., on a true line on S. bdy. of sec. 19.  
Over gently rolling land, thru. scattering undergrowth.  
Descend very gradually over E. slope.

15.00 Draw, 3 chs. wide, course NE.  
Ascend gradual NW. slope.

38.64 (40.00 chs. westerly from the closing cor. of secs. 29 and  
30, hereinafter described), Set an iron post, 3 ft.  
long, 1 in. in diam., 5 ins. in the ground to bed rock,  
deposit a stone marked cross (x) alongside, and raise  
a mound of stone, 4 ft. base, 2  $\frac{1}{2}$  ft. high around post,  
for  $\frac{1}{4}$  sec. cor. of sec. 30 only, marked on brass cap,

$\frac{1}{4}$  S 30  
1920

38.97 (At proportional distance) Set an iron post, 3 ft. long,  
1 in. in diam., 26 ins. in the ground for  $\frac{1}{4}$  sec. cor.  
of sec. 19 only, marked on brass cap,

$\frac{1}{4}$  S 19  
1920

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

71.00 Begin gradual descent along NE. slope.  
78.16 Intersect the cor. of secs. 19 and 20.  
Land, rolling.  
Soil, sandy and stony, 2nd and 3rd rate.  
Undergrowth, scattering sage brush.  
No timber.

-----  
From the cor. of secs. 29 and 30, on N. bdy. of sec. 31,  
hereinbefore described,  
North, on true line, bet. secs. 29 and 30.

40.00 Over rolling land, thru. scattering undergrowth.  
Mark a cross (x) on bed rock at exact cor. point, and over  
same, set an iron post, 3 ft. long, 1 in. in diam., sup-  
ported in a mound of stone 3  $\frac{1}{2}$  ft. base, 2  $\frac{1}{2}$  ft. high, for  
 $\frac{1}{4}$  sec. cor., marked on brass cap,

$\frac{1}{4}$  S 30 | S 29  
1922

26 Survey of part (completion) of the  
Subdivision lines of Township 17 North, Range 20 East.

Chains.

79.94

Intersect the S. bdy. of sec.20, 48 lks. S.89°10'E., of the cor. of secs.19 and 20, hereinbefore described. At point of intersection, set an iron post, 3 ft. long, 2 ins. in diam., 27 ins. in the ground for closing cor. of secs. 29 and 30, marked on brass cap,

S 20	
S30	S29
T17N	R20E
C	C
1920-2	

raise a mound of stone, 2 ft. base, 1½ ft. high, S. of cor. Land, rolling.  
Soil, sandy and stony, 3rd and 4th rate.  
Undergrowth, scattering sage brush.  
No timber.

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The continued satisfactory adjustment of the instrument throughout the survey of this township is indicated from field tests as given in Book "C."  
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GENERAL DESCRIPTION.

The land in sec.28,29,31 and 32 is hilly and broken, while in secs.19 and 30, it is generally rolling, with some nearly level land in the central and southern portions of sec.30. The soil over the hilly and broken portions of the above secs, consists of sand, varying in depth from 1 to 24 ins. and is everywhere underlaid with sandstone ledges; the soil over this portion of the township is practically worthless, except for the small amount of undergrowth such as sage brush and weeds which grow during the summer season upon which sheep and goats can subsist for a short time during the early fall season. In secs.19,30, and 31 there is some sandy loam soil, with an average depth of about 8 inches, which can be classed as second rate, and over this part of the township there is a fairly good growth of bunch grass, which affords good pasture for cattle and horses.

The general elevation of the land in the township is about 6000 ft., the highest portion of the land being along the south bdy., and sloping in a northeasterly direction toward the valley of the Little Colorado river, into which the land over the entire township is drained by large sand washes, which flow thru. the Tp. in a northeasterly direction.

The township is poorly timbered with cedar, the trees however, being too small to be of any value except for fuel purposes.

The only water within the area described in the foregoing field notes is in pools along the canyon, which cuts thru. sec.33.

There are no mineral deposits in the township, and no settlers residing on the land.

The land is not susceptible of irrigation, and will not produce agricultural crops with the normal rainfall in this part of the state. On the whole, the land is valuable only for grazing purposes.

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4-680

BOOK 3539

**FIELD ASSISTANTS.**

**to Sidney E. Blout, U. S. Cadastral Engineer**

NAMES.	CAPACITY.
John B. McClung	Head chainman
Andrew Ahlbeck	Rear "
Sterling Everett	Flagman

BOOK 3539 CERTIFICATE OF UNITED STATES CADASTRAL ENGINEER.

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 Fourth Standard Parallel North through Ranges 19 and 20 East, and of the West boundary of Township 17 North, Range 20 East, and resurveyed and surveyed all those parts or portions of the Subdivision lines of

Township 17 North, Range 20 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 resurvey and such 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 the Fourth Standard Parallel North through parts of Ranges 19 and 20 East, and of part of the West boundary of Township 17 North, Range 20 East, and of the resurvey and survey of part (completion) of the Subdivision lines of

Township 17 North, Range 20 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.

Frank A. 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

U. S. Surveyor General