

3495

4-679

Book "A"

BOOK 3495

FIELD NOTES

OF THE RESURVEY OF

part of the East boundary,

and part of the North boundary,

AND OF THE RETRACEMENT, RESURVEY, AND SURVEY,

of part (completion) Of the Subdivision lines of

Township 19 North, Range 16 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. 27, 1918, issued by the United States Surveyor General to govern surveys included in Group No. 92, Arizona, which were approved by the Commissioner of the General Land Office, October 19, 1918, and Assignment Instructions dated April 1, 1920

Retracement, Resurvey, and Survey commenced April 23, 1920

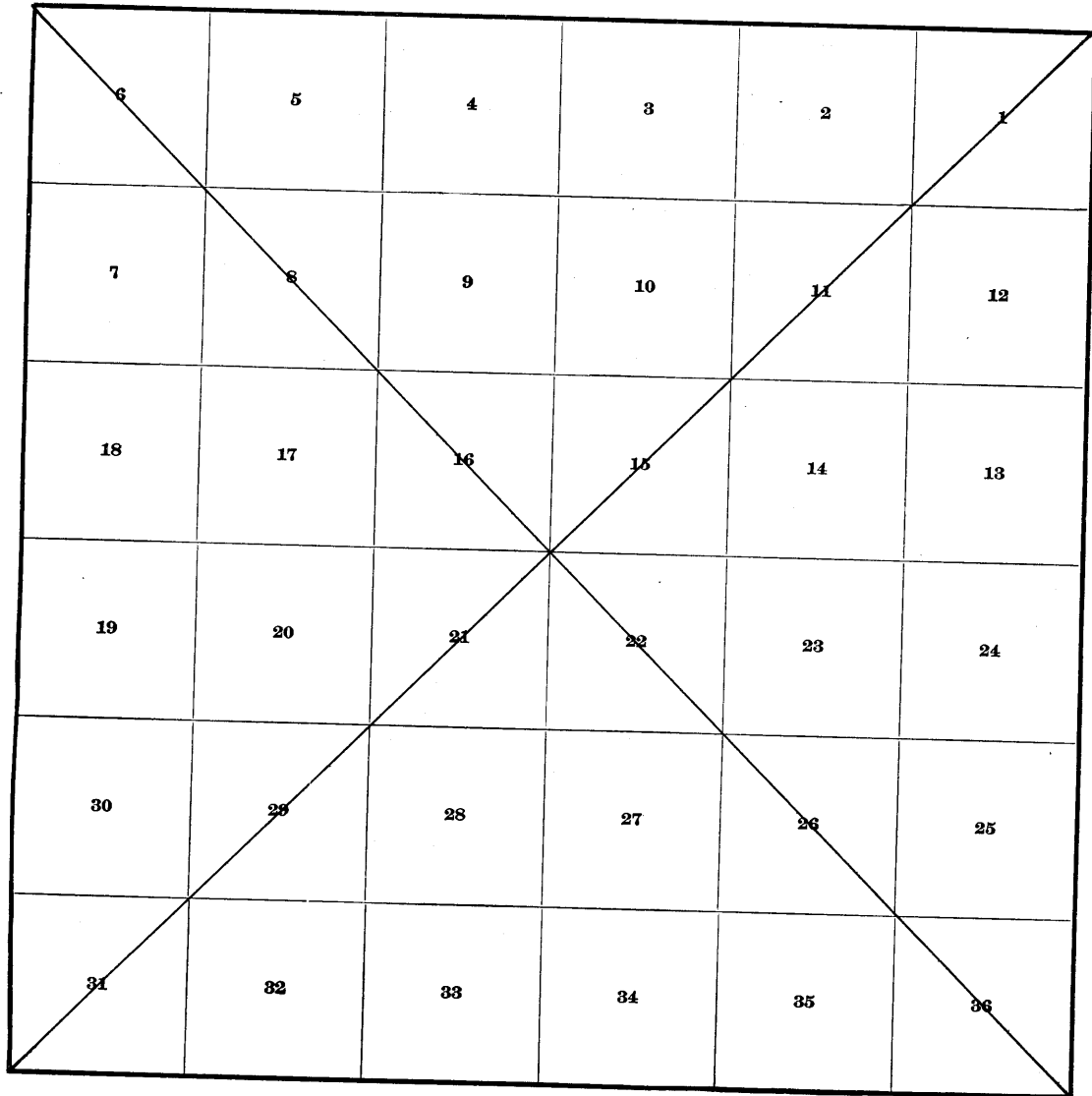
Retracement, Resurvey and Survey completed May 25, 1921

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INDEX DIAGRAM.

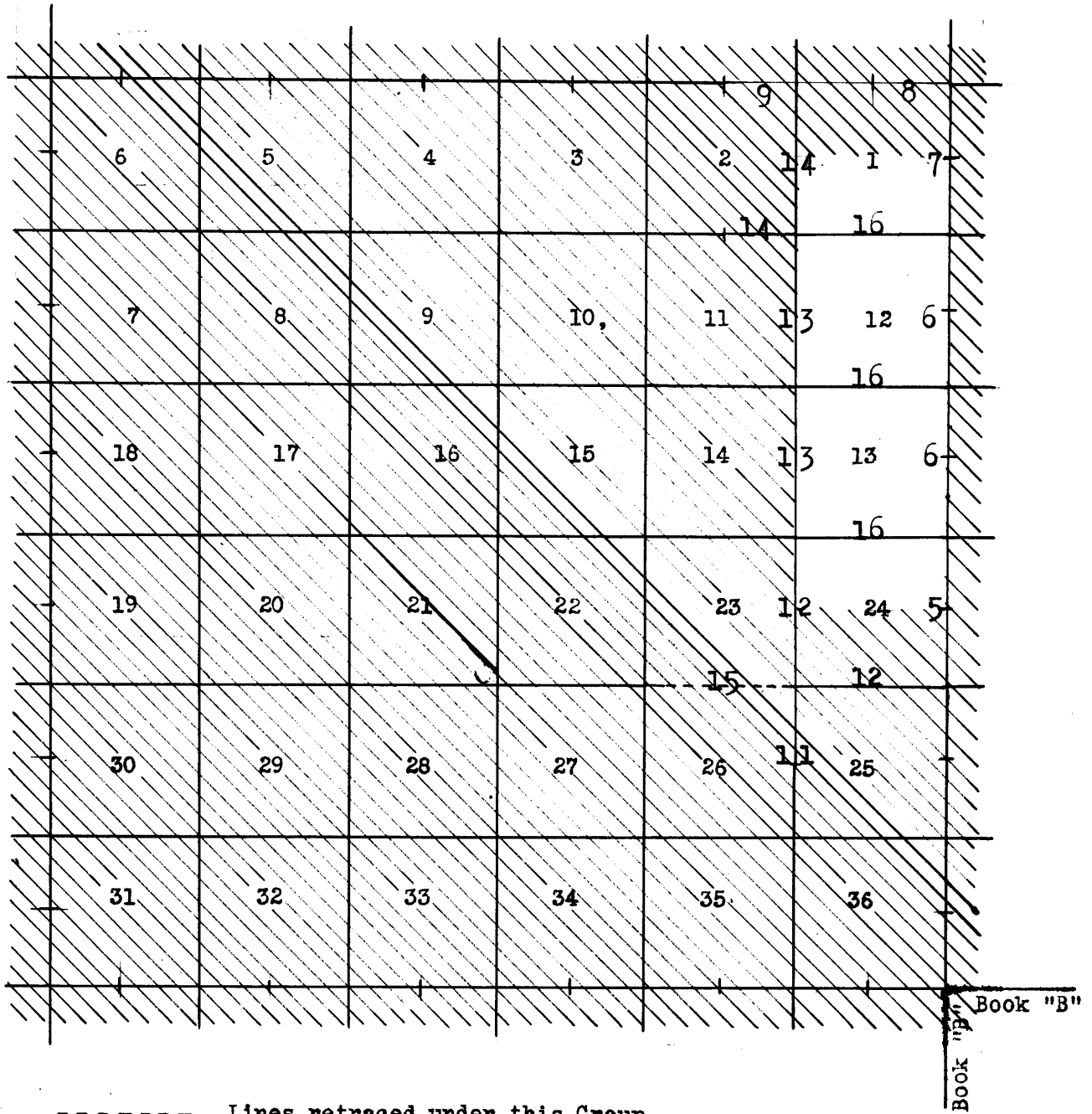
Township *Range*



Index Diagram

Township 19 North, Range 16 East,

BOOK 2495



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

Date Diagram

BOOK 3495

Township 19 North, Range 16 East,

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

On the above diagram:-

dotted red lines indicate retracements,
 red lines indicate resurveys, and
 blue lines indicate surveys,

all executed by Sidney E. Blout, U. S. Cadastral Engineer,
 on dates shown thereon,
 and black lines indicate accepted surveys.

Retracements, 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, thoroughly tested on the meridian at the Federal Building in 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.

April 26, 1920: At camp near the $\frac{1}{4}$ sec. cor. of secs. 29 and 32, T. 19 N., R. 16 E., in latitude $35^{\circ} 00\frac{1}{2}'$ N., long. $110^{\circ} 40' 13''$ W., set off $35^{\circ} 00\frac{1}{2}'$ N. on the lat. arc, $13^{\circ} 39\frac{1}{2}'$ N. on the decl. arc and at 3 h. 00 m. p. m. apparent time, determine a meridian with the solar and mark a point thereof by a nail in stake driven firmly in the ground 5 chs. N.

At the same station, at 7 h. 16 m. p. m., l.m.t., by watch, set to read the correct local mean time by the Telegraph clock in Winslow, Arizona, at noon on this day, make an hour angle observation on Polaris west of the meridian, 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-chs. N.

April 27, lay off the azimuth of Polaris $1^{\circ} 09'$ to the east and mark the meridian thus determined by a nail driven in the stake already set 5. chs. N. on which the meridian falls $00\frac{1}{2}'$ E. in angular measure of the meridian determined by the solar.

At 7 h. 00 m., a.m., apparent time, set off $35^{\circ} 00\frac{1}{2}'$ N. on the lat. arc, $13^{\circ} 53'$ N. 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 $01'$ E. of the meridian established by the Polaris observations.

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

The magnetic bearing of the true meridian at 7 h. 00 m. a.m., is N. $14^{\circ} 40'$ W., and the angle thus determined gives the magnetic declination $14^{\circ} 40'$ E.

Dependent Resurvey of part of the East boundary of
T. 19 N., R. 16 E.

Chains	<p>This township boundary was surveyed by John L. Harris, U. S. D. S. in 1879, and was retraced by Frank Follman, U. S. D. S. in 1882. The following notes describe a dependent resurvey of the North four miles of this boundary, and in retracing preliminary to said resurvey, the random courses and distances are identical with the record of the Follman retracement.</p> <p style="text-align: center;">RETRACEMENT FOR RESURVEY.</p> <p>The original $\frac{1}{4}$ sec. cor. of secs. 30 and 31, Ts. 19 N., Rs. 16 and 17 E., is a cottonwood post 4 ins. in diam. $2\frac{1}{2}$ ft. long, broken off at surface of the ground. Reconstruct this cor. as follows: Alongside of the decayed end of post, drive the old post 18 ins. in the ground.</p> <p>Thence N. $0^{\circ} 53'$ W., on a random line, bet. secs. 31 and 36 (N. $\frac{1}{4}$)</p> <p>40.08 Diligent search in this vicinity fails to reveal any trace of the original cor. of secs. 25, 30, 31 and 36, therefore set temp. cor. of said secs.</p> <p>Thence N. $0^{\circ} 33'$ W., on a random line, bet. secs. 25 and 30 (S. $\frac{1}{4}$)</p> <p>40.43 Diligent search in this vicinity fails to reveal any trace of the original $\frac{1}{4}$ sec. cor., therefore, set temp. $\frac{1}{4}$ sec. cor.</p> <p>Thence N. $0^{\circ} 58'$ W., on a random line, bet. secs. 25 & 30 (N. $\frac{1}{4}$)</p> <p>40.04 Diligent search in this vicinity fails to reveal any trace of the original cor. of secs. 19, 24, 25, and 30, therefore, set temp. cor. of said secs.</p> <p>Thence N. $0^{\circ} 31'$ W., on a random line, bet. secs. 19 and 24 (S. $\frac{1}{4}$)</p> <p>40.24 Diligent search in this vicinity fails to reveal any trace of the original $\frac{1}{4}$ sec. cor., therefore, set temp. $\frac{1}{4}$ sec. cor.</p> <p>Thence N. $0^{\circ} 48'$ W., on a random line, bet. secs. 19 and 24 (N. $\frac{1}{4}$)</p> <p>40.19 Set temp. cor. of secs. 13, 18, 19 and 24, from which the original cor. of said secs., hereinafter described, bears N. $59^{\circ} 32'$ E. 177 lks. dist. This bearing is used in determining the points for reestablishment of the missing cors. between the $\frac{1}{4}$ sec. cor. of secs. 31 and 36, and the cor. of secs. 13, 18, 19 and 24, the distances on such bearing from each temp. cor. being proportioned to 177 lks. as the dist. from each cor. to the $\frac{1}{4}$ sec. cor. of secs. 31 and 36 is to the total dist. from said $\frac{1}{4}$ sec. cor. to the cor. of secs. 13, 18, 19 and 24.</p> <p>From original cor. of secs. 13, 18, 19 and 24, N. $0^{\circ} 27'$ W. on a random line, bet. secs. 13 and 18 (S. $\frac{1}{4}$)</p> <p>40.11 Fall 42 lks. E. of the original $\frac{1}{4}$ sec. cor., hereinafter described. True bearing and length of S. $\frac{1}{4}$ of line bet. secs. 13 and 18, are therefore N. $1^{\circ} 03'$ W. 40.12 chs.</p> <p>Thence N. $0^{\circ} 46'$ W., on a random line, bet. secs. 13 and 18 (N. $\frac{1}{4}$)</p> <p>40.11 Diligent search in this vicinity fails to reveal any trace of the original cor. of secs. 7, 12, 13 and 18, therefore, set temp. cor. of said secs.</p> <p>Thence N. $0^{\circ} 21'$ W. on a random line, bet. secs. 7 and 12 (S. $\frac{1}{4}$)</p> <p>40.20 Diligent search in this vicinity fails to reveal any trace of the original $\frac{1}{4}$ sec. cor. therefore, set temp. $\frac{1}{4}$ sec. cor.</p> <p>Thence N. $1^{\circ} 00'$ W. on a random line, bet. secs. 7 and 12 (N. $\frac{1}{4}$)</p> <p>40.30 Diligent search in this vicinity fails to reveal any trace of the original cor. of secs. 1, 6, 7 and 12, therefore, set temp. cor. of said secs.</p>
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Dependent Resurvey of part of the East Boundary
T. 19 N., R. 16 E.

Retracement for Resurvey (Cont'd.)

- Chains Thence
N. 0° 32' W. on a random line, bet. secs. 1 and 6 (S. $\frac{1}{4}$)
40.20 Diligent search in this vicinity fails to reveal any trace of the original $\frac{1}{4}$ sec. cor., therefore, set temp. $\frac{1}{4}$ sec. cor.
Thence
N. 0° 52' W. on a random line, bet. secs. 1 and 6 (N. $\frac{1}{4}$)
40.30 Set temp. cor. of Tps. 19 and 20 N., Rs. 16 and 17 E., from which remains of the original cor. of said Tps. hereinafter described, bears S. 81° 23' E. 134 lks. dist. This bearing is used in determining the points for reestablishment of missing cors. between the $\frac{1}{4}$ sec. cor. of secs. 13 and 18, and the cor. of Ts. 19 and 20 N., Rs. 16 and 17 E., the distances on such bearing from each temp. cor. being proportioned to 134 lks. as the dist. from each cor. to the $\frac{1}{4}$ sec. cor. of secs. 13 and 18 is to the total dist. from said $\frac{1}{4}$ sec. cor. to the Tp. cor.

RESURVEY

No areas in Secs. 25 and 30, T. 19 N., R. 16 E., being involved in the surveys to be executed under this group, neither the cor. of secs. 25, 30, 31 and 36, nor the $\frac{1}{4}$ sec. cor. of secs. 25 and 30 will be required to be reestablished, therefore proceed to the temp. cor. of secs. 19, 24, 25 and 30 and at a point N. 59° 32' E., 106 lks. dist. therefrom

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

T 19 N	
R 16 E	R 17 E
S 24	S 19
S 25	S 30

1920

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

- Thence
N. 0° 06' W., on true line bet. secs. 19 and 24 (S. $\frac{1}{4}$).
Over hilly land, through scattering undergrowth.
40.42 (A point 141 $\frac{1}{2}$ lks. N. 59° 32' E. from temp. $\frac{1}{4}$ sec. cor. of secs. 19 and 24)
Set an iron post 3 ft. long, 1 in. in diam. 24 ins. in the ground for reestablished $\frac{1}{4}$ sec. cor. of secs. 19 and 24 marked on brass cap

S 24 $\frac{1}{4}$ S 19	
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1920

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

- N. 0° 21' W., on true line, bet. secs. 19 and 24 (N. $\frac{1}{4}$).
Over rolling sand hills, through scattering undergrowth.
40.38 Intersect the original cor. of secs. 13, 18, 19, and 24, which is a cottonwood post, 3 ins. sq. 2 $\frac{1}{2}$ ft. long marks on faces almost obliterated, 3 notches on N. and S. edges; No cor. accessories.
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. 13, 18, 19, and 24, marked on brass cap.

T 19 N	
R 16 E	R 17 E
S 13	S 18
S 24	S 19

1920

Dependent Resurvey of part of the East boundary of
T. 19 N., R. 16 E.

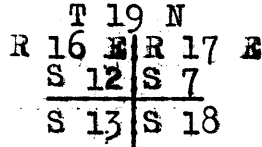
Chains Dig pits 18 x 18 x 12 ins. in each sec. NE., SE., SW.,
and NW. of post 3 ft. dist.
Land, rolling sand hills.
Soil, gravelly and sandy, 3rd rate.
No timber.
Undergrowth, scattering sagebrush, 2 ft. high.

40.12 N. 1° 03' W., on true line, bet. secs. 13 and 18 (S. $\frac{1}{4}$)
Over rolling sand hills, through scattering undergrowth.
Intersect the original $\frac{1}{4}$ sec. cor. of secs. 13 & 18 which
is a cottonwood post 3 ins. sq. 2 ft. above ground,
greatly decayed marked " $\frac{1}{4}$ S." on E. face. No cor. acces-
series.
Alongside of the old post 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. 13 and 18, marked on brass cap



1920

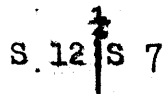
40.07 Dig pits 18 x 18 x 12 ins. N. and S. of post 3 ft. dist.
Thence
N. 0° 24' W., on true line, bet. secs. 13 and 18 (N. $\frac{1}{4}$)
Over rolling sand hills through scattering undergrowth.
(A point 27 lks. S. 81° 23' E., from temp. cor. of secs.
7, 12, 13 and 18.)
Set an iron post 3 ft. long, 2 ins. in diam., 24 ins. in
the ground for reestablished cor. of secs. 7, 12, 13,
and 18, marked on brass cap



1920

Dig pits 18 x 18 x 12 ins. in each sec. NE., SE., SW.,
and NW. of post 3 ft. dist.
Land, rolling hills.
Soil, sandy, 3rd rate.
No timber.
Undergrowth, scattering sage brush and Brigham weed, 2
ft. high.

40.16 N. 0° 02' E., on true line, bet. secs. 7 and 12 (S. $\frac{1}{4}$)
Over low rolling sand hills, through scattering under-
growth.
(A point 54 lks. S. 81° 23' E., from temp. $\frac{1}{4}$ sec. cor. of
secs. 7 and 12).
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. 7
and 12, marked on brass cap



1920

40.26 Dig pits 18 x 18 x 12 ins. N. and S. of post 3 ft. dist.
Thence
N. 0° 38' W., on true line, bet. secs. 7 and 12 (N. $\frac{1}{4}$)
Over rolling sand hills, through scattering undergrowth.
(A point 80 lks. S. 81° 23' E., from temp. cor. of secs.
1, 6, 7 and 12.)
Set an iron post, 3 ft. long, 2 ins. in diam. 24 ins. in
the ground for reestablished cor. of secs. 1, 6, 7,
and 12, marked on brass cap

Dependent Resurvey of part of the East boundary of
T. 19 N., R. 16 E.

Chains

T 19 N	
R 16 E	R 17 E
S 1 S	S 6
S 12 S	S 7
1920	

Dig pits 18 x 18 x 12 ins. in each sec. NE., SE., SW., and NW. of post 3 ft. dist.
Land, rolling sand hills.
Soil, sandy 2nd and 3rd rate.
No timber.
Undergrowth, scattering sage brush and Brigham weed, 2 ft. high.

40.16 N. 0° 09' W., on true line, bet. secs. 1 and 6 (S. 1/2)
Over rolling sandy land, sloping SW., through scattering undergrowth.
(A point 107 lks. S. 81° 23' E. from temp. 1/2 sec. cor. of secs. 1 and 6);
Set an iron post 3 ft. long, 1 in. in diam. 20 ins. in the ground for reestablished 1/2 sec. cor. of secs. 1 and 6, marked on brass cap

S 1 S	
6	
1920	

21.00 Dig pits 18 x 18 x 12 ins. N. and S. of post 3 ft. dist. Thence
N. 0° 29' W., on true line bet. secs. 1 and 6 (N. 1/2).
Over rolling sand hills through scattering undergrowth.
Asc. over S. slope.
35.00 Top of sand ridge, brs. N. 80° E., and S. 80° W. Desc. 60 ft. over N. slope.
Foot of descent. Leave rolling and enter level land bearing E. & W., devoid of timber or undergrowth.
40.26 Intersect remains of the original cor. of Tps. 19 and 20 N., Rs. 16 and 17 E., which is a cottonwood post 5 ins. in diam., lying on a mound of earth, marked with 6 notches on each of four sides.
Reestablish this cor. as follows:
Destroy old mound of earth and in center of the space it occupied reset the old post 30 ins. in the ground, and alongside same set an iron post, 3 ft. long, 3 ins. in diam. 24 ins. in the ground for reestablished cor. of Ts. 19 and 20 N., Rs. 16 and 17 E., mkd. on brass cap

T 20 N	
R 16 E	R 17 E
S 36 S	S 31
S 1 S	S 6
T 19 N	
1921	

Raise a md. of stone, 2 ft. base, 1 1/2 ft. high, S. of cor.
Land, rolling and level.
Soil, sandy and stony 2nd and 3rd rate.
No timber.
Undergrowth, scattering sagebrush, 1 1/2 ft. high.
Fair growth of bunch grass.

Chains This Tp. bdy. was surveyed by John L. Harris, U. S. D. S. in 1879 and no retracement or resurvey of any part of the line is of record. The following notes describe the resurvey of the E. $\frac{1}{4}$ miles of the line.

RETRACEMENT FOR RESURVEY.

From the original cor. of Tps. 19 and 20 N., Rs. 16 and 17 E., hereinbefore described:
 S. $89^{\circ} 52'$ W., on a random line, bet. secs. 1 and 36 (E. $\frac{1}{4}$)
 41.08 Fall 19 lks. S. of the original $\frac{1}{4}$ sec. cor. of secs. 1 and 36 hereinafter described. True bearing and length of E. $\frac{1}{4}$ of line bet. secs. 1 and 36 are, therefore, N. $89^{\circ} 52'$ W., 41.08 chs.
 Thence
 S. $89^{\circ} 52'$ W., on random line, bet. secs. 1 and 36 (W. $\frac{1}{4}$)
 40.00 Diligent search in this vicinity fails to reveal any trace of the original cor. of secs. 1, 2, 35 and 36, therefore set temp. cor. of said secs.
 Thence
 S. $89^{\circ} 52'$ W., on a random line, bet. secs. 2 and 35 (E. $\frac{1}{4}$) continuing measurement from $\frac{1}{4}$ sec. cor. of secs. 1 and 36.
 80.58 Fall 03 lks. S. of the original $\frac{1}{4}$ sec. cor. of secs. 2 and 35 hereinafter described. True bearing and length of line from $\frac{1}{4}$ sec. cor. of secs. 1 and 36 to this $\frac{1}{4}$ sec. cor. are, therefore, S. $89^{\circ} 53'$ W., 80.58 chs. which, to maintain original proportion in the cor. intervals, gives two intervals of 40.29 chs. each,

RESURVEY.

From reestablished cor. of Tps. 19 and 20 N., Rs. 16 and 17 E., hereinbefore described:
 N. $89^{\circ} 52'$ W., on true line bet. secs. 1 and 36.
 Over level sandy bottom land, devoid of timber or undergrowth. Along S. side of sandy wash course westerly.
 3.50 Enter same wash 100 lks. wide, course S. 80° W.
 7.50 Leave same wash, course NW. Asc. 25 ft. over E. slope of hill.
 10.00 Top of hill. Desc. 25 ft. over W. slope.
 15.00 Foot of descent. Enter level land.
 41.08 Intersect the original $\frac{1}{4}$ sec. cor. of secs. 1 and 36, which is a cottonwood post 3 ins. sq. $2\frac{1}{2}$ ft. long, dimly marked "S" lying on remains of earth mound midway between two well defined pits E. & W. of mound. No bearing trees. Destroy old mound of earth, and in center of its position reset the old post 18 ins. in the ground with marked face N. and alongside same.
 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. 1 and 36 marked on brass cap

$\frac{1}{4}$ S 36
 $\frac{1}{4}$ S 1
 1921

Raise a mound of stone 2 ft. base $1\frac{1}{2}$ ft. high N. of cor.
 Thence
 S. $89^{\circ} 53'$ W. on true line, bet. secs. 1 and 36 (W. $\frac{1}{4}$)
 Over level sandy bottom land devoid of timber and undergrowth. The wash noted in the E. $\frac{1}{4}$ of line bet. Secs. 1 and 36 course westerly is in close proximity to the line on the N.
 16.70 Enter same sand wash, 100 lks. wide, course W.
 30.00 Leave same wash, course NW., thence westerly near line.
 40.29 (Proportional dist.) 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

Dependent Resurvey of part of the North boundary of
T. 19 N., R. 16 E.

Chains

T 20 N. R. 16 E
S 35 | S 36
S 2 | S 1
T 19 N
1921.

Raise a mound of stone 2 ft. base, 1½ ft. high, W. of cor.
Land, rolling and level.
Soil, gravelly, sandy, and stony 2nd and 3rd rate.
No timber or undergrowth.
Light growth bunch grass.

S. 89° 53' W., on true line, bet. secs. 2 and 35 (E. ½).
Over rolling sandy and stony land, along S. side of same
sand wash, course westerly which follows along line
bet. secs. 1 and 36.

4.00 Same sand wash, 60 lks. wide, 3 ft. banks, course S. 70° W.
.40.29 Intersect the original ¼ sec. cor. of secs. 2 and 35
which is a cottonwood post, 4 ins. sq. firmly set,
projecting 12 ins. above the ground, marked "¼ S" on
N. face, and witnessed by pits 18 x 18 x 12 ins. E.
& W. of post, 3 ft. dist. No bearing trees.
Land, level.
Soil, sandy and stony 2nd and 3rd rate.
No timber or undergrowth.
Good grass.

Resurvey of part of the Subdivision Lines

T. 19 N., R. 16 E.

Chains The subdivision lines of this township, with the exception of lines bet. secs. 1 and 12, 12 and 13, and 13 and 24, were surveyed by John L. Harris, U. S. D. S. in 1879 and no retracement or resurvey of such lines is of record. The following notes describe the retracement and resurvey of part, and of the survey of the completion of the subdivision lines.

RETRACEMENT FOR RESURVEY.

From the original $\frac{1}{4}$ sec. cor. of secs. 25 and 26, hereinafter described.

40.00 North, on random line, bet. secs. 25 and 26 (N. $\frac{1}{2}$). Diligent search in this vicinity fails to reveal any trace of the original cor. of secs. 23, 24, 25 and 26. Set temp. cor. of said secs.

80.00 Continue line and measurement, bet. secs. 23 and 24 (S. $\frac{1}{2}$). Diligent search in this vicinity fails to reveal any trace of the original $\frac{1}{4}$ sec. cor. of secs. 23 and 24. Set temp. $\frac{1}{4}$ sec. cor. of secs. 23 and 24.

121.95 Continue line and measurement, bet. secs. 23 and 24 (N. $\frac{1}{4}$). Fall 90 lks. E. of the original cor. of secs. 13, 14, 23 and 24, hereinafter described.

True course and length of this meridional sec. line back to $\frac{1}{4}$ sec. cor. of secs. 25 and 26, are therefore S. $0^{\circ} 25'$ E., 121.95 chs. To maintain record proportion bet. the cor. intervals, therefore, gives three intervals of 40.65 chs. each.

Adjust the positions of the temporary cors. to produce said intervals on a line bet. the original cors. found.

From original cor. of secs. 13, 14, 23 and 24.

40.00 North, on random line, bet. secs. 13 and 14 (S. $\frac{1}{4}$). Diligent search in this vicinity fails to reveal any trace of the original $\frac{1}{4}$ sec. cor. of secs. 13 and 14. Set temp. $\frac{1}{4}$ sec. cor. of said secs.

80.00 Continue line and measurement bet. secs. 13 and 14 (N. $\frac{1}{4}$). Diligent search in this vicinity fails to reveal any trace of the original cor. of secs. 11, 12, 13 and 14. Set temp. cor. of said secs.

120.03 Continue line and measurement, bet. secs. 11 and 12 (S. $\frac{1}{2}$). Fall 144 lks. E. of the original $\frac{1}{4}$ sec. cor. of secs. 11 and 12, hereinafter described.

True course and length of this meridional sec. line back to cor. of secs. 13, 14, 23 and 24 are therefore, S. $0^{\circ} 41'$ E., 120.03 chs. To maintain record proportion between the cor. intervals, therefore, gives three intervals of 40.01 chs. each.

Adjust the positions of the temp. cors. to produce said intervals on a line between the original cors. found.

From original $\frac{1}{4}$ sec. cor. of secs. 11 and 12.

40.00 North, on random line, bet. secs. 11 and 12 (N. $\frac{1}{4}$). Diligent search in this vicinity fails to reveal any trace of the original cor. of secs. 1, 2, 11 and 12. Set temp. cor. of said secs.

80.00 Continue line and measurement bet. secs. 1 and 2 (S. $\frac{1}{2}$). Diligent search in this vicinity fails to reveal any trace of the original $\frac{1}{4}$ sec. cor. of secs. 1 and 2. Set temp. $\frac{1}{4}$ sec. cor. of said secs.

120.98 Continue line and measurement bet. secs. 1 and 2 (N. $\frac{1}{4}$). Fall 134 lks. E. of the reestablished cor. of secs. 1, 2, 35 and 36 on N. bdy. of Tp., hereinbefore described.

True course and length of this meridional sec. line back to original $\frac{1}{4}$ sec. cor. of secs. 11 and 12 are therefore S. $0^{\circ} 38'$ E., 120.98 chs. To maintain record proportion between cor. intervals, therefore, gives

Resurvey of part of the Subdivision Lines
T. 19 N.; R. 16 E.

11.

Chains two intervals of 40.35 chs. each applying to the N. $\frac{1}{4}$ bet. secs. 11 and 12 and S. $\frac{1}{4}$ bet. secs. 1 and 2, ^{one interval of 40.28 chs. applying to N. $\frac{1}{4}$ bet. secs. 1 and 2.} Adjust the positions of the temp. cors. to produce said intervals on a direct line bet. the $\frac{1}{4}$ sec. cor. of secs. 11 and 12, and the cor. of secs. 1, 2, 35 and 36 on N. bdy. of Tp.

From original cor. of secs. 22, 23, 26 and 27, hereinafter described.

- 40.02 East, on random line, bet. secs. 23 and 26 (W. $\frac{1}{4}$) Diligent search in this vicinity fails to reveal any trace of the original $\frac{1}{4}$ sec. cor. of secs. 23 and 26. Set temp. $\frac{1}{4}$ sec. cor. of said secs.
- 80.04 Continue line and measurement bet. secs. 23 and 26 (E. $\frac{1}{4}$) Diligent search in this vicinity fails to reveal any trace of the original cor. of secs. 23, 24, 25 and 26. Set temp. cor. of said secs.
- 80.54 Continue line and measurement, bet. secs. 24 and 25 (W. $\frac{1}{4}$) A point 23 lks. S. of the temp. cor. of secs. 23, 24, 25 and 26, set at 40.65 chs. N. $0^{\circ} 25' W.$, from original $\frac{1}{4}$ sec. cor. of secs. 25 and 26 as hereinbefore described.
- 119.98 Diligent search in this vicinity fails to reveal any trace of original $\frac{1}{4}$ sec. cor. of secs. 24 and 25. Set temp. $\frac{1}{4}$ sec. cor. of said secs.
- 160.96 Continue line and measurement bet. secs. 24 and 25 (E. $\frac{1}{4}$) Fall 66 lks. S. of the reestablished cor. of secs. 19, 24, 25 and 30 on E. bdy. of Tp. hereinbefore described. True course and length of this latitudinal sec. line back to original cor. of secs. 22, 23, 26 and 27, are therefore S. $89^{\circ} 46' W.$, 160.96 chs. To maintain original proportion between cor. intervals, therefore, gives 40.20 chs. for E. and W. halves, bet. secs. 24 and 25, and 40.28 chs. for E. and W. halves bet. secs. 23 and 26. Adjust the positions of the temp. cors. to produce said intervals on a direct line bet. the original cor. of secs. 22, 23, 26 and 27, and the reestablished cor. of secs. 19, 24, 25 and 30, on the E. bdy. of the Tp.

From original $\frac{1}{4}$ sec. cor. of secs. 2 and 11, hereinafter described.

- 39.95 East, on random line between secs. 2 and 11 (E. $\frac{1}{4}$). A point 44 lks. S. of the temp. cor. of secs. 1, 2, 11 and 12 set at 40.35 chs. N. $0^{\circ} 38' W.$ from original $\frac{1}{4}$ sec. cor. of secs. 11 and 12 as hereinbefore described.
- 40.04 (Record dist.) Diligent search in this vicinity fails to reveal any trace of the original cor. of secs. 1, 2, 11 and 12. Set temp. cor. of said secs.

RESURVEY.

The original $\frac{1}{4}$ sec. cor. of secs. 25 and 26, is a lime stone 14 x 6 x 3 ins., loosely set, marked " $\frac{1}{4}$ S" on W. face. No trace of accessories.

Reset the same stone 9 ins. in the ground for reestablished $\frac{1}{4}$ sec. cor. of secs. 25 and 26, marked " $\frac{1}{4}$ S 26" on W. face. Raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high W. of cor.

Thence

N. $0^{\circ} 23' W.$, on true line, bet. secs. 25 and 26 (N. $\frac{1}{4}$)
Over hilly land, devoid of timber or undergrowth. Asc. S. slope.

Resurvey of part of the subdivision lines of
T. 19 N., R. 16 E.

12.

Chains

16.60

Top of sand hill bears E. and W. Desc. over NE. slope.

40.65

A point 2 lks. E. of the temp. cor. of secs. 23, 24, 25 and 26, set at 40.65 chs. N. $0^{\circ} 25'$ W., from $\frac{1}{4}$ sec. cor. of secs. 25 and 26, and 10 lks. S. of the temp. cor. of same secs. set at 80.40 chs. S. $89^{\circ} 46'$ W. from cor. of secs. 19, 24, 25 & 30 on E. bdy. of Tp. as hereinbefore described.

Set an iron post 3 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 19	N	R 16	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.

Land, hilly.

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

No timber or undergrowth.

From the reestablished cor. of secs. 19, 24, 25, and 30 on E. bdy. of Tp., hereinbefore described.

Thence

S. $89^{\circ} 41'$ W. on true line bet. secs 24 and 25.

Over rolling land devoid of timber or undergrowth.

40.20

(Proportional dist.) Set an iron post 3 ft. long, 1 in. in diam. 20 ins. in the ground for reestablished $\frac{1}{4}$ sec. cor. of secs. 24 and 25, marked on brass cap,

$\frac{1}{4}$	S 24
	S 25
1920	

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

45.00

Ascend 20 ft. over SE. slope.

60.00

Sand ridge bears NE. and SW. Desc. over NW. slope to

80.40

The reestablished cor. of secs. 23, 24, 25 and 26.

Land, rolling and hilly.

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

No timber or undergrowth.

N. $0^{\circ} 26'$ W., on true line, bet. secs. 23 and 24.

Over rolling sandy ridges bearing NE. and SW., devoid of timber or undergrowth. Descend gradually.

40.65

(Proportional dist.) Set an iron post 3 ft. long, 1 in. diam. 20 ins. in the ground for reestablished $\frac{1}{4}$ sec. cor. of secs. 23 and 24, marked on brass cap

	$\frac{1}{4}$	S 23		S 24
1920				

81.30

Dig pits 18 x 18 x 12 ins. N. and S. of post 3 ft. dist. Intersect the original cor. of secs. 13, 14, 23 and 24, which is a cottonwood post, 4 ins. sq. projecting 12 ins. above ground, marked with 1 notch on E. and 3 notches on S. edges, marks on faces almost obliterated. No cor. accessories.

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. 13, 14, 23 and 24, marked on brass cap

Resurvey of part of the Subdivision lines of
T. 19 N., R. 16 E.

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13.

Chains

T 19 N | R 16 E
S 14 | S 13
S 23 | S 24
1920

Raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high W. of cor. Land, rolling sand hills and ridges.

Soil, sandy, 3rd rate.
No timber or undergrowth.

N. $0^{\circ} 41'$ W., on true line, bet. secs. 13 and 14.
Over low rolling sand hills, devoid of timber or undergrowth.

40.01 (Proportional dist.) 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. 13 and 14, marked on brass cap

S 14 | S 13
1920

80.02 Dig pits 18 x 18 x 12 ins. N. and S. of post 3 ft. dist. (Proportional dist.) Set an iron post 3 ft. long, 2 ins. in diam. 24 ins. in the ground for reestablished cor. of secs. 11, 12, 13, and 14, marked on brass cap

T 19 N | R 16 E
S 11 | S 12
S 14 | S 13
1920

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

Land, rolling sand hills.
Soil, sandy, 3rd rate.
No timber, or undergrowth.

N. $0^{\circ} 41'$ W., on true line, bet. secs. 11 and 12 ($S.\frac{1}{4}$).
Over rolling sand hills, sloping west, devoid of timber or undergrowth.

40.01 Intersect the original $\frac{1}{4}$ sec. cor. of secs. 11 and 12, which is a cottonwood post, 3 ins. sq. $2\frac{1}{2}$ ft. long, loosely set, marked " $\frac{1}{4}$ S" on E. face. No cor. accessories.

Alongside of the old post, 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. 11 and 12, marked on brass cap

S 11 | S 12
1920

Dig pits 18 x 18 x 12 ins. N. and S. of post 3 ft. dist
Thence

N. $0^{\circ} 30'$ W., on true line bet. secs. 11 and 12 ($N.\frac{1}{2}$).
Over low rolling sand hills devoid of timber or undergrowth.

40.35 A point 9 lks. E. of temp. cor. of secs. 1, 2, 11 and 12 set at 40.35 chs. N. $0^{\circ} 38'$ W., from $\frac{1}{4}$ sec. cor. of secs. 11 and 12, and 44 lks. N. of temp. cor. of same secs. set at 40.04 chs. E. from $\frac{1}{4}$ sec. cor. of secs. 2 and 11.

Set an iron post 3 ft. long, 2 ins. in diam. 24 ins. in the ground for reestablished cor. of secs. 1, 2, 11 and 12, marked on brass cap

T 19 N | R 16 E
S 2 | S 1
S 11 | S 12
1920

Resurvey of part of the Subdivision Lines

T. 19 N., R. 16 E.

- Chains Dig pits 18 x 18 x 12 ins. in each sec. NE., SE., SW., and NW. of post 3 ft. dist.
Land, rolling sand hills.
Soil, sandy, 3rd rate.
No timber or undergrowth.
-
- 35.00 N. 0° 42' W., on true line, bet. secs. 1 and 2. Over rolling and hilly sandy land devoid of timber or undergrowth. Asc. 60 ft. over SE. slope.
Top of ridge, bears NE. and SW. Desc. gradually over NW. slope.
- 40.35 (Proportional dist.) 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. 1 and 2 marked on brass cap
- \uparrow
 S 2 | S 1
 1920
- 40.26 Dig pits 18 x 18 x 12 ins. N. and S. of post 3 ft. dist. Thence
N. 0° 42' W. on true line, bet. secs. 1 and 2 (N. $\frac{1}{4}$) Over rolling sandy land, devoid of timber or undergrowth. Desc. gradually over NW. slope.
Intersect the reestablished cor. of secs. 1, 2, 35 and 36 on N. bdy. of Tp. hereinbefore described.
Land, rolling and hilly.
Soil, sandy and stony, 3rd rate.
No timber or undergrowth.
-
- 40.04 From reestablished cor. of secs. 1, 2, 11 and 12.
S. 89° 22' W., on true line, bet. secs. 2 and 11 (E. $\frac{1}{4}$) Over slightly rolling land devoid of timber or undergrowth.
Intersect the original $\frac{1}{4}$ sec. cor. of secs. 2 and 11, which is a sandstone 12 x 6 x 3 ins. above ground, firmly set, marked " $\frac{1}{4}$ " on W. face. No accessories.
Land, rolling.
Soil, sandy, 3rd rate.
No timber or undergrowth.
-

Retracement of part of the Subdivision Lines of
T. 19 N., R. 16 E.

Chains From reestablished cor. of secs. 23, 24, 25 and 26, here-
inbefore described.
S. 89° 50' W., on true line, bet. secs. 23 and 26.
Over rolling sand hills, devoid of timber or undergrowth.
Ascend gradual SE. slope.

40.28 The point for $\frac{1}{4}$ sec. cor. reestablished by proportion as
hereinbefore described. As the surveys under this
group are not dependent upon this cor., do not monu-
ment the same.

80.56 Intersect the original cor. of secs. 22, 23, 26 & 27,
which is a soft sandstone 10 x 12 x 4 ins. almost
buried in the sand, marked with 2 notches on each of
E. and S. edges.
No accessories.
Land, rolling.
Soil, sandy, 3rd rate.
No timber or undergrowth.

16. Survey of part (Completion) of the Subdivision
Lines of T. 19 N., R. 16 E.

Chains	From the reestablished cor. of secs. 13, 14, 23 and 24, hereinbefore described. East on a random line bet. secs. 13 and 24.
40.00	Set temp. $\frac{1}{4}$ sec. cor.
80.52	Intersect the E. bdy. of Tp. 18 lks. S. of the reestablished cor. of secs. 13, 18, 19 and 24, hereinbefore described.
	Thence S. $89^{\circ} 52'$ W., on true line, bet. secs. 13 and 24. Over hilly land, devoid of timber or undergrowth. Asc. over E. slope.
11.00	Sand ridge, bears N. and S.. Desc. 50 ft. over W. slope.
40.26	Set an iron post 3 ft. long, 1 in. in diam. 26 ins. in the ground for $\frac{1}{4}$ sec. cor. of secs. 13 and 24, marked on brass cap
	$\frac{1}{4}$ $\frac{S\ 13}{S\ 24}$ 1920
65.00	Dig pits 18 x 18 x 12 ins. E. and W. of post 3 ft. dist. Foot of descent in valley bears N. 20° E., and S. 20° W. Asc. 40 ft. over S.E. slope to
80.52	The reestablished cor. of secs. 13, 14, 23 and 24, hereinbefore described. Land, hilly. Soil, sandy, 3rd rate. No timber or undergrowth.

	From reestablished cor. of secs. 11, 12, 13 and 14, hereinbefore described. N. $89^{\circ} 52'$ E. on a random line bet. secs. 12 and 13.
40.00	Set temp. $\frac{1}{4}$ sec. cor.
80.56	Intersect the E. bdy. of Tp. 26 lks. S. of the reestablished cor. of secs. 7, 12, 13 and 18, hereinbefore described
	Thence S. $89^{\circ} 41'$ W., on true line, bet. secs. 12 and 13. Over rolling sand hills, devoid of timber or undergrowth. Desc. over SW. slope.
40.28	Set an iron post 3 ft. long 1 in. in diam. 26 ins. in the ground for $\frac{1}{4}$ sec. cor. of secs. 12 and 13, marked on brass cap
	$\frac{1}{4}$ $\frac{S\ 12}{S\ 13}$ 1920
80.56	Dig pits 18 x 18 x 12 ins. E. and W. of post 3 ft. dist. The reestablished cor. of secs. 11, 12, 13, and 14, hereinbefore described. Land, hilly. Soil, sandy, 3rd rate. No timber or undergrowth.

	From reestablished cor. of secs. 1, 2, 11 and 12, hereinbefore described. N. $89^{\circ} 41'$ E. on a random line bet. secs. 1 and 12.
40.00	Set temp. $\frac{1}{4}$ sec. cor.
81.16	Intersect the E. bdy. of Tp. 16 lks. N. of the reestablished cor. of secs. 1, 6, 7, and 12, hereinbefore described.
	Thence S. $89^{\circ} 48'$ W. on true line, bet. secs. 1 and 12. Over rolling sand hills, devoid of timber or undergrowth. Desc. over W. slope.
40.58	Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in

Survey of part (Completion) of the Subdivision
Lines of T. 19 N., R. 16 E.

Chains the ground for $\frac{1}{4}$ sec. cor. marked on brass cap

$\frac{1}{4}$ $\frac{S 1}{S 12}$
1920

81.16 Dig pits 18 x 18 x 12 ins. E. and W. of post 3 ft. dist. The reestablished cor. of secs. 1, 2, 11 and 12, hereinbefore described.
Land, hilly.
Soil, sandy, 3rd rate.
No timber or undergrowth.

Boundaries of secs. 1, 2, 13 and 14, T. 19 N., R. 16 E
Latitudes, Departures, and Closing Errors.

Line Designated	True Bearing	.Distance. Chs.	Latitudes		Departures	
			N	S	E	W
Subdivisional Bdy.	S89°41'W	80.40		.44		80.40
	N 0°26'W	81.30	81.30			.61
	N 0°41'W	120.03	120.03			1.43
	N 0°30'W	40.35	40.35			.35
	N 0°42'W	80.61	80.61			.98
N. Tp. bdy.	N89°53'E	40.29	.08		40.29	
	S89°52'E	41.08		.09	41.08	
E. Tp. bdy.	S 0°29'E	40.26		40.26	.34	
	S 0°09'E	40.16		40.16	.10	
	S 0°38'E	40.26		40.26	.45	
	S 0°02'W	40.16		40.16		.02
	S 0°24'E	40.07		40.07	.28	
	S 1°03'E	40.12		40.11	.73	
	S 0°21'E	40.38		40.38	.25	
Convergency	S 0°06'E	40.42		40.42	.07	
					.05	
Totals			322.37	322.35	83.64	83.79
			322.35			83.64
Error in latitude			.02			
Error in departure					.15	

GENERAL DESCRIPTION.

The portion of this township, represented in the foregoing field notes comprises rolling sand hills. The soil over the entire area consists of loose sand to a depth of several feet and can practically be classed as 3rd rate. Along the east bdy. of the Tp. is a scattering growth of bunch grass, Brigham weed and sage brush undergrowth, but elsewhere there is no vegetation. The drainage of this part of the township is in a westerly direction into the Little Colorado River. There is no timber and no water in this portion of the township, neither are there any mineral deposits. There are no settlers on the land included in this survey. The arid character of this section of the state is such as to render the pursuit of agriculture impracticable. The land is being used at the present time as a public range for cattle and horses.

BOOK 3495

CERTIFICATE OF UNITED STATES CADASTRAL ENGINEER

20

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 92, Arizona, bearing date of the 27th 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 East and North boundaries, and retraced, resurveyed, and surveyed all those parts or portions of the Subdivision lines of

Township 19 North, Range 16 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 retracement, 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 92, Arizona,

and in the specific manner described in the field notes, and that the foregoing are the original field notes of retracement, 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 parts of the East and North boundaries, and of the retracement, resurvey, and survey of part (completion) of the Subdivision lines of

Township 19 North, Range 16 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 27, 1918 for Group 92, Arizona, having been critically examined, and the necessary corrections and explanations made, the said field notes, and the retracements, resurveys and surveys they describe, are hereby approved.

Frank D. Smith
U. S. Surveyor General.

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