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BOOK 3498

4-679

Book "D"

FIELD NOTES

OF THE RETRACEMENT OF
Part of East Boundary of T. 16 N., R. 22 E., and
the Fourth Standard Parallel North through part of Ranges 22 and 23 East,

OF THE RESURVEY OF
part of the East boundary of
Township 16 North, Range 22 East,

AND OF THE RETRACEMENT, RESURVEY, AND SURVEY OF
part (completion) of the Subdivision lines of
Township 16 North, Range 22 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, 1918

Retracement,
Resurvey and Survey commenced May 28, 1920.

Retracement,
Resurvey and Survey completed May 16, 1921.

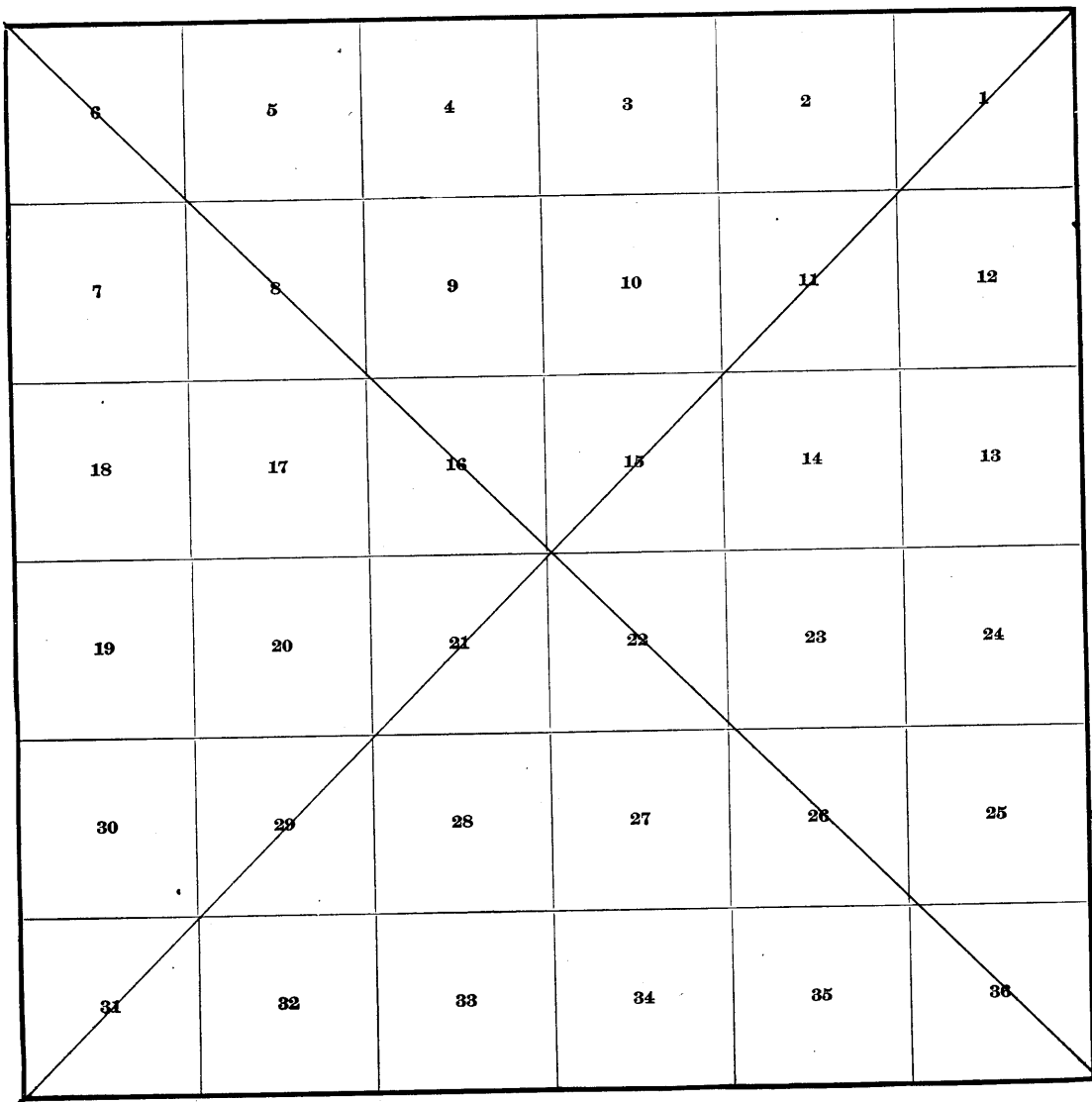
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~~INDEX DIAGRAM.~~

Township ----- Range -----

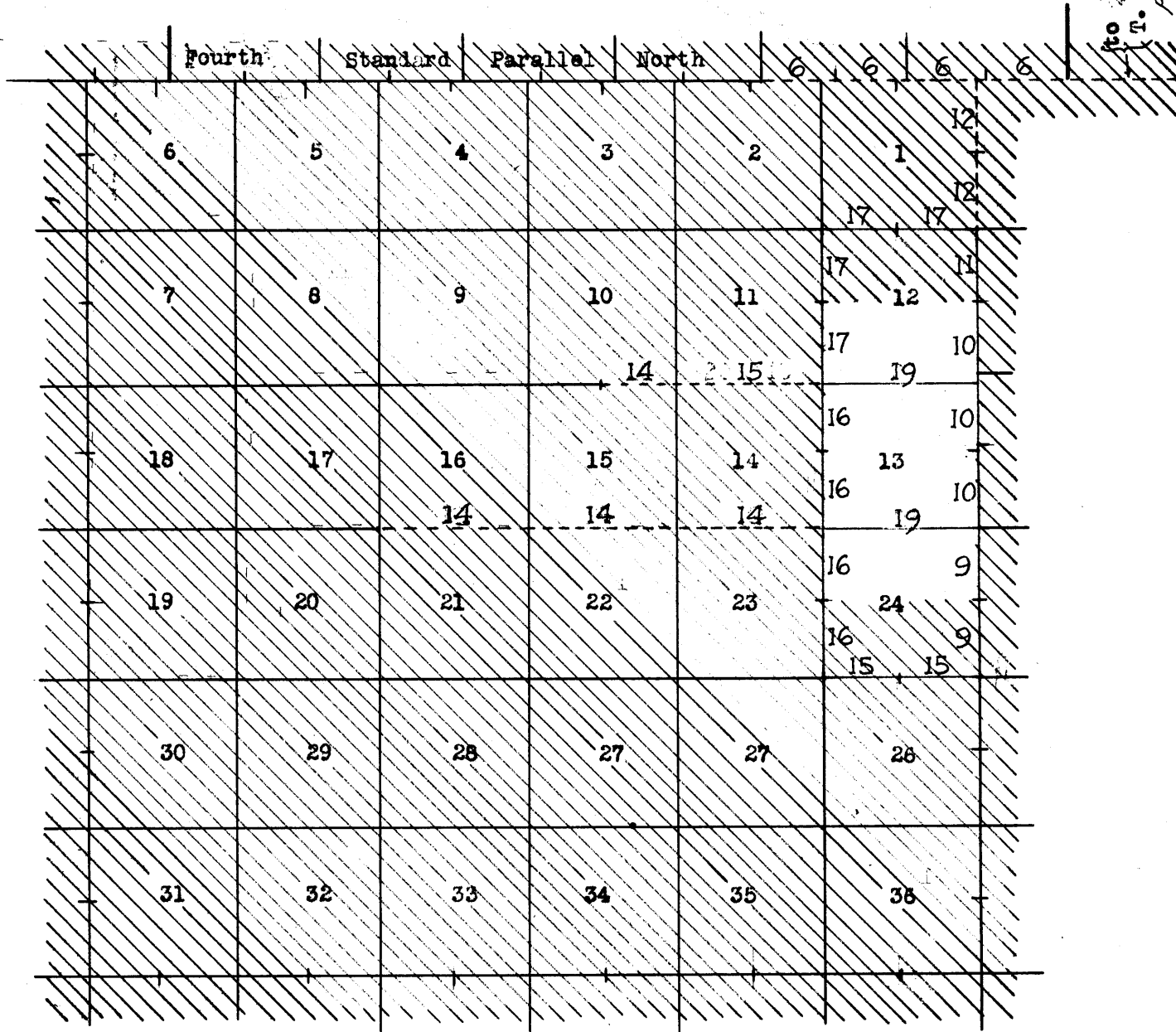


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Index Diagram

Township 16 North, Range 22 East,

To cor. Sec 33.
T. 17 N., R. 23 E.
pages 5 and 6



----- 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.

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Date Diagram

Township 16 North, Range 22 East.

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

to Std 1/4 cor Sec 33
T. 17 N., R. 23 E

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, upon which to test the solar attachment as stated in the field notes.

The instrument was examined, tested on the true 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 Luffkin 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.

May 26, 1920, at camp in the town of Woodruff, Arizona, near the $\frac{1}{4}$ sec. cor. of secs. 17 and 20, T. 16 N., R. 22 E. approx. latitude $34^{\circ} 46' 34''$ N., and longitude $110^{\circ} 02' 15''$ W. at 4 h. 00 m. p. m., set off $34^{\circ} 46\frac{1}{2}'$ N. on the lat. arc $21^{\circ} 13'$ N. on the decl. arc, and determine a meridian with the solar and mark the direction thus determined on a stake driven firmly in the ground 5-chs. N.

At same station, at 6 h. 47 m. 45 s. p. m., l.m.t., by watch which is set to the correct local mean time, 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 direction thus determined, on a peg driven firmly in the ground 5-chs. N.

Watch time of observation, mean of four readings 6 h. 47 m. 45 s. p. m.

May 27, 1920, lay off the azimuth of Polaris $0^{\circ} 48\frac{1}{2}'$ to the east and mark the meridian thus determined by a nail driven in the stake set last evening, on which the meridian falls $01\frac{1}{2}'$ E. of the mark determined by the solar observation.

At 7 h. 30 m. a.m., set off $34^{\circ} 46\frac{1}{2}'$ N. on the lat. arc, $21^{\circ} 20'$ N. on the decl. arc and determine a meridian with the solar and mark a point in the line thus determined by a tack driven in the stake already set 5-chs. N. this mark falls $00\frac{1}{2}'$ E. of the meridian established by the Polaris observation.

May 27, 1920, at same station, make a meridian observation on the sun for time and latitude, observing simultaneously the altitude of the sun's lower limb and transit of the sun's west limb, reversing the telescope and observing simultaneously the altitude of the sun's upper limb, and transit of the sun's east limb.

Mean observed altitude $=76^{\circ} 33' 44''$

Reduced latitude $=34^{\circ} 46' 45''$

Mean watch time of obs. $=11h.57m.15s$

Watch fast of local mean time $=00 00 12$

At 2 h 00 m, p.m., set off $34^{\circ} 46\frac{1}{2}'$ N. on the lat. arc, $21^{\circ} 22'$ N. on the decl. arc, and determine a meridian with the solar and mark a point thereof on the stake already set 5-chs. N. this mark falls $00\frac{1}{2}'$ in angular measure W. of the meridian established by the Polaris observations.

The solar apparatus by a. m., and p. m. observations, defines positions for meridians, which agree within about $01'$ 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 8 a.m. is N. $14^{\circ} 15'$ W., and the angle thus determined gives the magnetic declination $14^{\circ} 40'$ E.

Retracement of 4th Standard Parallel North thru
parts of Ranges 22 and 23 East.

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Chains The 4th Std. Par. N. thru Range 22 East was surveyed in 1879
1879 by John L. Harris, U. S. D. S., and retraced in
1883 by Henry A. Coe, U. S. D. S. No subsequent re-
tracement or resurvey of any part of the parallel in
R. 22 E. is of record.

The parallel thru Range 23 East was surveyed in 1882 by
Henry A. Coe, U. S. D. S. and no retracement or resur-
vey of any part of the parallel in said range is of
record.

The following notes describe the retracement of the paral-
lel south of secs. 35 and 36, T. 17 N., R. 22 E., and
south of secs. 31, 32 and W. $\frac{1}{2}$ of 33, T. 17 N., R. 23 E.,
for the purpose of locating the proper point for clos-
ing cor. of Ts. 16 N., Rs. 22 and 23 E., as a basis of
reestablishment of missing cors. on E. bdy. of T. 16 N.,
R. 22 E., a resurvey of part of which bdy. is herein-
after described.

Thru Part of Range 22 East (Random)

The original std. cor. of secs. 34 and 35, T. 17 N., R.
22 E., is a sandstone, 12 x 8 x 2 ins. set in a mound
of earth, marked "S C" on N. face, 2 notches on E. edge
and 4 notches on W. edge. No accessories.

Thence, as per record of the Coe retracement of 1883:
N. 89° 37' E., on random line, on W. $\frac{1}{2}$ of S. bdy. of sec.
35:

37.07 Diligent search in this vicinity fails to reveal any trace
of the closing cor. of secs. 1 and 2, T. 16 N., R.
22 E.

40.17 Diligent search in this vicinity fails to reveal any trace
of the original std. $\frac{1}{2}$ sec. cor. of sec. 35. Set temp.
 $\frac{1}{2}$ sec. cor.

Thence,
N. 89° 57' E., on random line, on E. $\frac{1}{2}$ of S. bdy. of sec.
35:

40.20 Diligent search in this vicinity fails to reveal any trace
of the original std. cor. of secs. 35 and 36. Set temp.
cor. of said secs.

Thence
N. 89° 51' E., on random line, on W. $\frac{1}{2}$ of S. bdy. of sec.
36:

36.05 Diligent search in this vicinity fails to reveal any
trace of original closing cor. of Ts. 16 N., Rs. 22
and 23 E. Set temp. closing cor. of said Ts.

Continue line and measurement.

40.05 Diligent search in this vicinity fails to reveal any
trace of the original std. $\frac{1}{2}$ sec. cor. of sec. 36.
Set temp. $\frac{1}{2}$ sec. cor.

Thence,
East, on random line, on E. $\frac{1}{2}$ of S. bdy. of sec. 36.

40.40 Diligent search in this vicinity fails to reveal any
trace of the original std. cor. of Ts. 17 N., Rs. 22
and 23 E. Set temp. cor. of said Ts.

THRU PART OF RANGE 23 EAST (RANDOM).

From temp. std. cor. of Ts. 17 N., Rs. 22 and 23 E.
East, on random line, on S. bdy. of sec. 31, T. 17 N.,
R. 23 E.

40.00 Diligent search in this vicinity fails to reveal any trace
of the original std. $\frac{1}{2}$ sec. cor. of sec. 31. Set temp.
 $\frac{1}{2}$ sec. cor.

Continue line and measurement.

46.11 Diligent search in this vicinity fails to reveal any trace
of closing cor. of secs. 5 and 6, T. 16 N., R. 23 E.

80.00 Diligent search in this vicinity fails to reveal any

Retracement of 4th Standard Parallel North thru
parts of Ranges 22 and 23 East.

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Chains trace of the original std. cor. of secs. 31 and 32.
Set temp. cor. of said secs.
Thence,
East, on random line, on S. bdy. of sec. 32, T. 17 N., R.
23 E.
40.00 Diligent search in this vicinity fails to reveal any
trace of the original std. $\frac{1}{4}$ sec. cor. of sec. 32. Set
temp. $\frac{1}{4}$ sec. cor.
Continue line and measurement.
46.85 Diligent search in this vicinity fails to reveal any trace
of the closing cor. of secs. 4 and 5, T. 16 N., R.
23 E.
80.00 Diligent search in this vicinity fails to reveal any trace
of the original std. cor. of secs. 32 and 33. Set temp.
cor. of said secs.
Thence,
East, on random line, on W. $\frac{1}{2}$ of S. bdy. of sec. 33, T. 17
N., R. 23 E.
40.00 Set temp. std. $\frac{1}{4}$ sec. cor. of sec. 33, from which the
original std. $\frac{1}{4}$ sec. cor. of said sec., bears N. 86°
25' E., 81 lks. dist. This tie is the basis for the
reestablishment of the missing cors. on that portion
of the parallel between the std. cor. of secs. 34 and
35, T. 17 N., R. 22 E., and the std. $\frac{1}{4}$ sec. cor. of
sec. 33, T. 17 N., R. 23 E., the reestablished points
for cors. being located on such bearing from each
temp. cor. a distance proportional to 81 lks. as the
distance from such cor. to the std. cor. of secs. 34
and 35 is to the total distance bet. the std. cor. of
secs. 34 and 35, T. 17 N., R. 22 E., and the std. $\frac{1}{4}$
sec. cor. of sec. 33, T. 17 N., R. 23 E.

THRU PART OF RANGE 23 EAST (TRUE)

The original std. $\frac{1}{4}$ sec. cor. of sec. 33, is a sandstone
26 x 24 x 5 ins. above ground, marked "S C $\frac{1}{4}$ " on N.
face, from which a stump of a tree 12 ins. in diam.
burned to surface of ground, bears N. 82 $\frac{1}{2}$ ° W., 39 lks.
This is evidently the remains of original bearing tree,
as the bearing and dist. agree with the record.
Thence
West, on true line, on W. $\frac{1}{2}$ of S. bdy. of sec. 33.
Over rolling land, thru very scattering timber. Desc.
gradually over NW. slope.
40.09 Reestablished point for std. cor. of secs. 32 and 33, at
72 lks. N. 86° 25' E. from the temp. cor. Move temp.
cor. to this point.
Land, rolling.
Soil, sandy, 3rd rate.
Timber, scattering juniper.
No undergrowth.
Good grass.

S. 89° 59' W., on true line, on S. bdy. of sec. 32 (E. $\frac{1}{2}$)
Over rolling land, devoid of timber or undergrowth.
Desc. gradually over W. slope.
30.00 Begin gradual ascent over NE. slope.
40.09 Reestablished point for std. $\frac{1}{4}$ sec. cor. of sec. 32, at
63 lks. N. 86° 25' E. from the temp. cor. Move temp.
 $\frac{1}{4}$ sec. cor. to this point.
Thence,
West, on true line, on S. bdy. of sec. 32 (W. $\frac{1}{2}$).
Over rolling land, devoid of timber or undergrowth. Asc.
gradually over NE. slope.
10.00 Begin descent over gradual NW. slope.
40.09 Reestablished point for std. cor. of secs. 31 and 32, at
54 lks. N. 86° 25' E., from temp. cor. Move temp.
cor. to this point.

Retracement of 4th Standard Parallel North thru
parts of Ranges 22 and 23 East.

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Chains	<p>Land, rolling. Soil, sandy, 3rd rate. No timber or undergrowth. Good grass.</p>
<p>40.09</p> <p>40.09</p>	<p>S. 89° 59' W., on true line, on S. bdy. of sec. 31 (E. $\frac{1}{2}$) Over rolling land devoid of timber or undergrowth. Descend gradually over N. slope.</p> <p>Reestablished point for std. $\frac{1}{2}$ sec. cor. of sec. 31, at 45 lks. N. 86° 25' E. from the temp. cor. Move temp. cor. to this point.</p> <p>Thence, West, on true line, on S. bdy. of sec. 31 (W. $\frac{1}{2}$) Over rolling land, devoid of timber or undergrowth. Descend gradually over N. slope.</p> <p>Reestablished point for std. cor. of Ts. 17 N., Rs. 22 and 23 E., at 36 lks. N. 86° 25' E., from the temp cor. Move temp. cor. to this point.</p> <p>Land, rolling. Soil, sandy, 3rd rate. No timber or undergrowth. Good grass.</p>
<p><u>THRU PART OF RANGE 22 EAST (TRUE)</u></p>	
<p>40.49</p> <p>4.01</p> <p>40.14</p>	<p>From reestablished point for std. cor. of Ts. 17 N., Rs. 22 and 23 E. S. 89° 59' W., on true line, on E. $\frac{1}{2}$ of S. bdy. of sec. 36; T. 17 N., R. 22 E. Over rolling land, devoid of timber or undergrowth. Descend gradually over NW. slope.</p> <p>Reestablished point for std. $\frac{1}{2}$ sec. cor. of sec. 36 at 27 lks. N. 86° 25' E., from the temp. cor. Move temp. cor. to this point.</p> <p>Thence, S. 89° 51' W., on true line, on W. $\frac{1}{2}$ of S. bdy. of sec. 36. Over rolling land, devoid of timber or undergrowth, nearly parallel to wire fence N. of line about 40 lks. dist. Desc. gradually over NW. slope.</p> <p>Reestablished point for closing cor. of Ts. 16 N., Rs. 22 and 23 E., at 26 lks. N. 86° 25' E., from the temp. cor. Move temp. cor. to this point.</p> <p>Continue line and measurement.</p> <p>Reestablished point for std. cor. of secs. 35 and 36, at 18 lks. N. 86° 25' E. from temp. cor. Move temp. cor. to this point.</p> <p>Land, rolling. Soil, sandy, 3rd rate. No timber or undergrowth. Good grass.</p>
<p>.55</p> <p>1.40</p> <p>40.29</p>	<p>S. 89° 56' W., on true line, on E. $\frac{1}{2}$ of S. bdy. of sec. 35. Over rolling land, devoid of timber or undergrowth nearly parallel to wire fence, N. of line about 20 lks. dist. Asc. over NE. slope.</p> <p>Wire fence, bears N. and S. Fence cor. bears N. 20 lks. dist. from which fence extends E. and S.</p> <p>Top of sand hill bears N. and S. Desc. over NW. slope.</p> <p>Reestablished point for std. $\frac{1}{2}$ sec. cor. of sec. 35, at 9 lks. N. 86° 25' E. from temp. cor. Move temp. cor. to this point.</p> <p>Thence, S. 89° 57' W. on true line, on W. $\frac{1}{2}$ of S. bdy. of sec. 35.</p>

Retracement of 4th Standard Parallel North thru
parts of Ranges 22 and 23 East.

Chains 40.26	Over rolling and hilly land, devoid of timber or under- growth. Desc. gradually over NW. slope. Intersect the original std. cor. of secs. 34 and 35, hereinbefore described. Land, rolling and hilly. Soil, sandy 5rd rate. No timber or undergrowth. Good grass.
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Dependent Resurvey of Part of the East Bdy. of
T. 16 N., R. 22 E.

8

Chains	<p>This township boundary was surveyed in 1879 by John L. Harris, U. S. D. S. and retraced by Henry A. Coe, U. S. D. S. in 1882. No subsequent retracement of any part of the line is of record.</p> <p>The following notes describe the resurvey of the line east of secs. 12, 13 and 24, using in the retracement for said resurvey, the record of the Coe retracement for the random courses and distances.</p>
	<p style="text-align: center;">----- <u>RETRACEMENT FOR RESURVEY.</u> -----</p>
	<p>From the original cor. of secs. 19, 24, 25 and 50, hereinafter described.</p>
40.51	<p>N. 0° 10' W., on random line, bet. secs. 19 and 24 (S. $\frac{1}{2}$) Diligent search in this vicinity fails to reveal any trace of the original $\frac{1}{2}$ sec. cor. Set temp. $\frac{1}{2}$ sec. cor.</p>
	<p>Thence,</p>
40.19	<p>N. 0° 08' E., on random line, bet. secs. 19 and 24 (N. $\frac{1}{2}$) Set temp. cor. of secs. 15, 18, 19 and 24, from which the original cor. of said secs., hereinafter described, bears S. 6° 59' W., 50 lks. dist.</p>
	<p>This tie is used in determining the reestablished point for $\frac{1}{2}$ sec. cor. of secs. 19 and 24 as follows: From the temp. $\frac{1}{2}$ sec. cor. the reestablished cor. point is S. 6° 59' W., 25 lks. dist.</p>
	<p>The resulting courses and lengths of the intervals involved are as follows:</p>
	<p>S. $\frac{1}{2}$ of line bet. secs. 19 and 24: N. 0° 12' W., 40.06 chs.</p>
	<p>N. $\frac{1}{2}$ of line bet. secs. 19 and 24: N. 0° 06' E., 39.94 chs.</p>
	<p style="text-align: center;">-----</p>
	<p>From original cor. of secs. 13, 18, 19 & 24.</p>
	<p>N. 0° 04' W., on random line, on S. $\frac{1}{2}$ of W. bdy. of sec. 18, T. 16 N., R. 23 E.</p>
40.22	<p>Diligent search in this vicinity fails to reveal any trace of the original $\frac{1}{2}$ sec. cor. of secs. 15 and 18. Set temp. $\frac{1}{2}$ sec. cor. of sec. 18.</p>
	<p>Thence,</p>
40.18	<p>N. 0° 11' E., on random line, on N. $\frac{1}{2}$ of W. bdy. of sec. 18. Diligent search in this vicinity fails to reveal any trace of the original cor. of secs. 7, 12, 13 and 18. Set temp. cor. of secs. 7 and 18.</p>
	<p style="text-align: center;">-----</p>
	<p>From temp. cor. of secs. 7 and 18.</p>
	<p>N. 0° 11' E., on random line, on S. $\frac{1}{2}$ of W. bdy. of sec. 7.</p>
40.26	<p>Diligent search in this vicinity fails to reveal any trace of the original $\frac{1}{2}$ sec. cor. of secs. 7 and 12. Set temp. $\frac{1}{2}$ sec. cor. of said secs.</p>
	<p>Thence N. 0° 15' W., on random line, on N. $\frac{1}{2}$ bet. secs. 7 and 12.</p>
40.23	<p>Diligent search in this vicinity fails to reveal any trace of the original cor. of secs 1, 6, 7, and 12. Set temp. cor. of said secs.</p>
	<p style="text-align: center;">-----</p>
	<p>From temp. cor. of secs. 1, 6, 7, and 12.</p>
	<p>N. 0° 10' W., on random line, on S. $\frac{1}{2}$ bet. secs. 1 and 6.</p>
40.23	<p>Diligent search in this vicinity fails to reveal any trace of the original $\frac{1}{2}$ sec. cor. of secs. 1 and 6. Set temp. $\frac{1}{2}$ sec. cor. of said secs.</p>
	<p>Thence,</p>
40.25	<p>N. 0° 08' W., on random line, on N. $\frac{1}{2}$ bet. secs. 1 and 6. Set temp. closing cor. of Ts. 16 N., Rs. 22 and 23 E., from which the temp. cor. at the reestablished point for said cor. on the 4th Std. Par. N., hereinbefore described, bears N. 13° 09' W., 274 lks. dist.</p>

Dependent Resurvey of Part of the East Dry. of

T. 16 N., R. 22 E.

Chains

Retirement for Resurvey continued
This tie is used in determining the reestablished cor. points. on the North half of range line bet. Ts. 16 N., Rs. 22 and 23 E., as follows:

The dist. on such bearing from each temp. cor. is proportioned to 274 lks. as the distance from the original cor. of secs. 13, 18, 19 and 24, to each cor. is to the Total length of the North half of the range line.

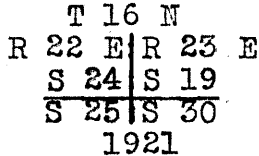
The resulting courses and lengths of the intervals between the points reestablished in such manner are as follows:

- S. $\frac{1}{2}$ of W. bdy. of sec. 18: N.0° 13' W., 40.67 chs.
- N. $\frac{1}{2}$ of W. bdy. of sec. 18: N.0° 02' E., 40.63 chs.
- S. $\frac{1}{2}$ of W. bdy. of sec. 7: N. 0° 02' E., 40.71 chs.
- N. $\frac{1}{2}$ of line bet. secs. 7 and 12: N.0° 24' W., 40.68 chs.
- S. $\frac{1}{2}$ of line bet. secs. 1 and 6: N.0° 19' W., 40.68 chs.
- N. $\frac{1}{2}$ of line bet. secs. 1 and 6: N.0° 17' W., 40.70 chs.

~ RESURVEY ~

The original cor. of secs. 19, 24, 25 and 30, Ts. 16 N., Rs. 22 and 23 E., is the decayed end of a cedar post in earth mound, with remains of pits NE., SE., SW., and NW., of old mound. No bearing trees. Reestablish this cor. as follows:

Destroy mound of earth and alongside of the decayed end of post 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



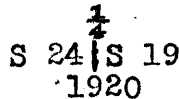
Raise a md. of stone, 2 ft. base, 1½ ft. high, W. of cor. Thence,

N. 0° 12' W., on true line, bet. secs. 19 and 24 (S. $\frac{1}{2}$) Over hilly and broken land, through scattering undergrowth. Asc. 74 ft. over SE. slope.

- 18.16 Point of spur, sloping NE. Desc. 30 ft. over N. slope.
- 26.66 Road from Holbrook to St. Johns, bears NW: and SE.
- 29.75 Draw, 100 lks. wide, course SE. Asc. 63 ft. over SW. slope to

39.95 Top of ascent on sandstone bluff 15 ft. high along top of ridge bears NW. and SE.

40.06 (25 lks. S. 6° 59' W., from temp. $\frac{1}{4}$ sec. cor.) Set an iron post 3 ft. long, 1 in. in diam. over cross (X) on sandstone ledge, supported in a mound of stone 6 ft. base, 2½ ft. high for reestablished $\frac{1}{4}$ sec. cor. of secs. 19 and 24, marked on brass cap



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

Thence, N. 0° 06' E., on true line, bet. secs. 19 and 24 (N. $\frac{1}{2}$) Over hilly and broken land, thru scattering undergrowth. Descend 37 ft. over N. slope.

- 16.06 Road from Woodruff, Arizona, to the Petrified Forest, bears E. and W.
- 19.79 Draw, 50 lks. wide, course SE. Asc. 10. ft. over SW. slope to sec. cor.
- 19.86 Old road from Woodruff, Arizona, to the Petrified Forest, bears NW. and SE.
- 39.94 Intersect the original cor. of secs. 13, 18, 19 and 24, which is a sandstone 8 x 6 x 5 ins. above ground,

Dependent Resurvey of part of the East Boundary of
T. 16 N., R. 22 E.

Chains

marked with 3 notches on each of N. and S. edges, no cor. accessories.

Alongside of the old stone set an iron post 3 ft. long, 2 ins. in diam. 24 ins. in the ground for reestablished cor. of secs. 15, 18, 19 and 24; marked on brass cap

T 16 N	
R 22 E	R 23 E
S 13	S 18
S 24	S 19
1920	

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

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

No timber.

Undergrowth, scattering sagebrush.

Fair grass.

N. $0^{\circ} 13' W.$ on true line on E. bdy. of sec. 13.

Over rolling land, through scattering undergrowth. Asc. 12 ft. over SW. slope.

11.15 Top of ascent on W. slope of stony hill bears E. Desc. 6 ft. over NW. slope.

18.17 Road from Woodruff, Arizona, to the Petrified Forest, bears E. and W.

35.00 Draw, 60 lks. wide, course S. $30^{\circ} W.$ Asc. over SE. slope.

40.35 (Midpoint of E. Bdy. of Sec. 13) Set an iron post 3 ft. long, 1 in. in diam. 26 ins. in the ground for reestablished $\frac{1}{4}$ sec. cor. of sec. 13 only, marked on brass cap

$\frac{1}{4}$
S 13
1920

40.67 Dig pits 18 x 18 x 12 ins. N. and S. of post 3 ft. dist. (46 lks. N. $13^{\circ} 09' W.$ from temp. cor.) Set an iron post 3 ft. long, 1 in. in diam. 26 ins. in the ground for reestablished $\frac{1}{4}$ sec. cor. of sec. 18, only, marked on brass cap

$\frac{1}{4}$
S 18
1920

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

N. $0^{\circ} 02' E.$, on true line, continuing measurement of E. bdy. of sec. 15.

80.70 Point of intersection of subdivision line bet. secs. 12 and 15, T. 16 N., R. 22 E., at which point closing cor. of said secs. is established as hereinafter described.

Land, rolling and hilly.

Soil, sandy 2nd and 3rd rate.

No timber.

Undergrowth, scattering sagebrush.

N. $0^{\circ} 02' E.$ on true line on S. $\frac{1}{4}$ of E. bdy. of sec. 12.

Over rolling land, devoid of timber or undergrowth. Asc. gradually over S. slope.

.60 (91 lks. N. $13^{\circ} 09' W.$ from temp. cor. and 40.63 chs.

N. $0^{\circ} 02' E.$ from reestablished $\frac{1}{4}$ sec. cor. of sec. 18)

Dependent Resurvey of part of the East Boundary of

T. 16 N., R. 22 E.

Chains

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

T 16 N		T 16 N
		S 7
S 12		S 18
R 22 E		R 23 E
		1920

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

Continue line and measurement

41.31 (137 lks. N. 15° 09' W. from temp. cor. and 40.71 chs. N. 0° 02' E. from reestablished cor. of secs. 7 and 18)

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

S 12		S 7
		1920

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

N. 0° 24' W., on true line on N. $\frac{1}{4}$ bet. secs. 7 and 12.

Over rolling land devoid of timber or undergrowth. Along W. slope.

40.68 (183 lks. N. 15° 09' W. from temp. cor.) Point for re-establishment of 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, mkd. on brass cap

T 16 N		
R 22 E		R 23 E
S 1		S 6
S 12		S 7
		1921

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

Land, rolling and hilly.
Soil, sandy, 2nd and 3rd rate.
No timber or undergrowth.
Good grass.

Retracement of Part of East Boundary of
T. 16 N., R. 22 E.

12

Chains	<p>From reestablished cor. of secs. 1, 6, 7 and 12, T. 16 N., Rs. 22 and 23 E., hereinbefore described. N. $0^{\circ} 19' W.$, on true line, on S. $\frac{1}{2}$ bet. secs. 1 and 6, as per result of retracement for resurvey hereinbefore described.</p>
40.68	<p>Over slightly rolling land devoid of timber or undergrowth. Desc. gradually over NW. slope. (228 lks. N. $13^{\circ} 09' W.$ from temp. $\frac{1}{4}$ sec. cor.) Reestablished point for $\frac{1}{4}$ sec. cor. of secs. 1 and 6. Move temp. cor. to this point. As no portion of the areas involved in the surveys executed under this group is dependent upon this cor., the same is not permanently monumented.</p>
40.70	<p>Thence, N. $0^{\circ} 17' W.$, on true line, on N. $\frac{1}{2}$ bet. secs. 1 and 6. Over slightly rolling land devoid of timber or undergrowth. Desc. gradually over NW. slope. Intersect the reestablished point for closing cor. of T. 16 N., Rs. 22 and 23 E., on the 4th Std. Par. N., 4.01 chs. S. $89^{\circ} 51' W.$ from reestablished point for std. $\frac{1}{4}$ sec. cor. of sec. 36, T. 17 N., R. 22 E. This closing cor. and the std. cors. on the 4th Std. Par. N. are not permanently monumented as none of them refer directly to the areas involved in the survey of this group. Land, slightly rolling. Soil, sandy 2nd and 3rd rate. No timber or undergrowth. Good grass.</p>

Dependent Resurvey of Part of the Subdivision Lines
of T. 16 N., R. 22 E.

Chains	The subdivision lines of this township, with the exception of lines bet. secs. 12 and 13, and bet. secs. 13 and 24, 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 lines bet. secs. 12 and 13, and bet. secs. 13 and 24, have never been surveyed and are included in the surveys to be executed under this group which surveys are hereinafter described.
<u>RETRACEMENT FOR RESURVEY.</u>	
39.88 82.64	From original cor. of secs. 19, 24, 25 and 30, on E. bdy. of Tp., hereinbefore described. S. 89° 53' W., on random line, bet. secs. 24 and 25. Diligent search in this vicinity fails to reveal any trace of the original 1/4 sec. cor. Set temp. 1/4 sec. cor. Fall 62 lks. N. of the remains of the original cor. of secs. 23, 24, 25 and 26, hereinafter described. True bearing and length of line bet. secs. 24 and 25 are, therefore, S. 89° 27' W., 82.64 chs.
40.00 80.00	From original cor. of secs. 23, 24, 25 and 26. North, on random line, bet. secs. 23 and 24. Diligent search in this vicinity fails to reveal any trace of the original 1/4 sec. cor. Set temp. 1/4 sec. cor. Diligent search in this vicinity fails to reveal any trace of the original cor. of secs. 13, 14, 23 and 24. Set temp. cor. of said secs.
40.00 80.00	From temp. cor. of secs. 13, 14, 23 and 24. North, on random line, bet. secs. 13 and 14. Diligent search in this vicinity fails to reveal any trace of the original 1/4 sec. cor. Set temp. 1/4 sec. cor. 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.
40.00 82.03 40.00 80.00	From temp. cor. of secs. 11, 12, 13 and 14. North, on random line, bet. secs. 11 and 12. Diligent search in this vicinity fails to reveal any trace of original 1/4 sec. cor. Set temp. 1/4 sec. cor. A point 59 lks. E. of the original cor. of secs. 1, 2, 11 and 12, hereinafter described. Thence, South, on random line, bet. secs. 11 and 12. Set temp. 1/4 sec. cor. and remove the one previously set at a point 203 lks. S. and 59 lks. E. of this point. Set temp. cor. of secs. 11, 12, 13 and 14, and remove the one previously set at 203 lks. S. and 59 lks. E. of this point.
39.95 82.71	From original cor. of secs. 1, 2, 11 and 12. S. 89° 51' E., on random line, bet. secs. 1 and 12. Diligent search in this vicinity fails to reveal any trace of the original 1/4 sec. cor. Set temp. 1/4 sec. cor. Fall 147 lks. S. of the reestablished point for cor. of secs. 1, 6, 7 and 12, on the E. bdy. of the Tp., determined by proportion as hereinbefore described. True bearing and length of line bet. secs. 1 and 12 are therefore S. 89° 08' W., 82.72 chs.

Dependent Resurvey of Part of the Subdivision Lines of
T. 16 N., R. 22 E.

14

(Retracement for Resurvey, Cont'd.)

Chains

The original cor. of secs. 16, 17, 20 and 21, is marked by a decayed post in a mound of stone. There is no legible marking on this post, but accept this as the original position of the cor. of said secs. on the testimony of settlers in the town of Woodruff, nearby, which town was existent when the cor. was established.

Thence,

N. 89° 52' E., on random line, bet. secs. 16 and 21.

39.97 Diligent search in this vicinity fails to reveal any trace of the original $\frac{1}{4}$ sec. cor. of secs. 16 and 21. Set temp. $\frac{1}{4}$ sec. cor.

Continue line and measurement.

79.94 Diligent search in this vicinity fails to reveal any trace of the original cor. of secs. 15, 16, 21 and 22. Set temp. cor. of said secs.

From temp. cor. of secs. 15, 16, 21 and 22.

S. 89° 43' E., on random line, bet. secs. 15 and 22.

40.10 Diligent search in this vicinity fails to reveal any trace of the original $\frac{1}{4}$ sec. cor. of secs. 15 and 22. Set temp. $\frac{1}{4}$ sec. cor.

Continue line and measurement.

80.20 Diligent search in this vicinity fails to reveal any trace of the original cor. of secs. 14, 15, 22 and 23. Set temp. cor. of said secs.

From temp. cor. of secs. 14, 15, 22 and 23.

S. 89° 49' E., on random line, bet. secs. 14 and 23.

39.98 Diligent search in this vicinity fails to reveal any trace of the original $\frac{1}{4}$ sec. cor. of secs. 14 and 23. Set temp. $\frac{1}{4}$ sec. cor. Continue line and measurement.

79.96 Diligent search in this vicinity fails to reveal any trace of the original cor. of secs. 13, 14, 23 and 24. Set temp. cor. of said secs.

From a point 388 lks. E. of the temp. sec. cor. just set, the previously set temp. cor. of same secs. bears S. 468 lks. dist., therefore the reestablished point for cor. of secs. 13, 14, 23 and 24, will be at 97 lks. W. and 117 lks. N. of the temp. sec. cor. set at 80.00 chs. N. from original cor. of secs. 23, 24, 25 and 26.

The resulting true bearing and lengths of the retraced lines governed by such reestablished point for sec. cor. are as follows:

Bet. secs. 23 and 24: N. 0° 41' W., 81.18 chs.

Bet. secs. 14 and 23: N. 88° 59' W., 80.94 chs.

Bet. secs. 15 and 22: N. 88° 53' W., 81.18 chs.

Bet. secs. 16 and 21: N. 89° 18' W., 80.92 chs.

The original $\frac{1}{4}$ sec. cor. of secs. 10 and 15 is a cedar post, 4 ins. square, projecting 12 ins. above ground, firmly set, well preserved and marked " $\frac{1}{4}$ S" on N. face. No accessories.

Thence,

S. 89° 48' E., on random line bet. secs. 10 and 15 (E. $\frac{1}{2}$)

39.87 Diligent search in this vicinity fails to reveal any trace of the original cor. of secs. 10, 11, 14 and 15. Set temp. cor. of said secs.

Dependent Resurvey of Part of the Subdivision Lines of
T. 16 N., R. 22 E.
(Retracement for Resurvey, Cont'd.)

Chains From temp. cor. of secs. 10, 11, 14 and 15.
S. 89° 47' E., on random line, bet. secs. 11 and 14.

40.05 Diligent search in this vicinity fails to reveal any trace of the original $\frac{1}{4}$ sec. cor. of secs. 11 and 14. Set temp. $\frac{1}{4}$ sec. cor. Continue line and measurement.

80.10 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. From a point 15 lks. W. of the temp. cor. just set, the previously set temp. cor. of same secs. bears N. 90 lks. dist., therefore the reestablished point for cor. of secs. 11, 12, 13 and 14 will be at 9 lks. E. and 54 lks. S. of the temp. cor. of said secs. set at 80 chs. S. from original cor. of secs. 1, 2, 11 and 12.

The resulting true bearings and lengths of the retraced lines governed by such reestablished point for sec. cor. are as follows:

Between Secs. 13 and 14, N. 0° 20' E., 80.32 chs.
Between Secs. 11 and 12, N. 0° 04' W., 80.54 chs.
Between Secs. 11 and 14, N. 89° 57' W., 80.00 chs.
E. $\frac{1}{4}$ between Secs. 10 and 15, N. 89° 58' W., 39.82 chs.

RESURVEY.

From the reestablished cor. of secs. 19, 24, 25 and 30, on E. bdy. of Tp., hereinbefore described.
S. 89° 27' W. on true line, bet. secs. 24 and 25. Over hilly land thru scattering undergrowth.
Ascend 40. ft. over SE. slope.

22.00 Point of spur slopes NE. Desc: 30 ft. over NW. slope.

38.00 Foot of descent, bears NE. and SW. Leave hilly and enter slightly rolling land, along N. slope with little change in elevation.

40.32 (Midpoint) 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. 24 and 25, marked on brass cap:

$\frac{1}{4}$ S 24
 $\frac{1}{4}$ S 25
1921

Raise a mound of stone 2 ft. base, 1 $\frac{1}{2}$ ft. high N. of cor. Continue over slightly rolling N. slope with little change in elevation.

82.64 Intersect the remains of the original cor. of secs. 23, 24, 25, and 26, which is a decayed end of wood post, unmarked, 8 ins. long, set in md. of earth, midway bet. faint remains of pits, NE. and SW. of post, 5 ft. dist. The record SE. and NW. pits have been entirely obliterated.

Reestablish the cor. as follows:
Destroy the earth mound and in center of its position, set an iron post, 3 ft. long, 2 ins. in diam., 24 ins. in the ground with the remains of old post alongside, for reestablished cor. of secs. 23, 24, 25 and 26, marked on brass cap:

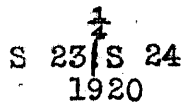
T 16 N R 22 E
S 23 | S 24
S 26 | S 25
1921

Dig pits 18 x 18 x 12 ins. in each sec., NE., SE., SW., and NW. of post 3 ft. dist.
Land, rolling and hilly.
Soil, sandy and stony, 2nd and 3rd rate.
No timber.
Undergrowth, scattering greasewood and sagebrush.

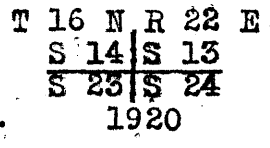
Resurvey of Part of the Subdivision Lines of
T. 16 N., R. 22 E.

16.

Chains N. 0° 41' W. on true line bet. secs. 23 and 24.
 Over gently rolling land, through scattering undergrowth.
 Desc. gradually over NE. slope.
 27.75 Wash, 6 lks. wide, 2 ft. deep, course SE. Asc. very
 gradually over SE. slope.
 40.59 (Midpoint) 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. 23 and 24, marked on brass cap:

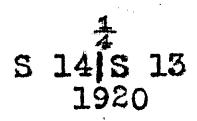


Raise a mound of stone 2 ft. base, 1 $\frac{1}{2}$ ft. high W. of cor.
 Asc. very gradually over SE. slope.
 50.00 Low ridge, bears NE. and SW. Desc. very gradually over
 NW. slope.
 62.20 Road from Woodruff, Arizona, to the Petrified Forest
 bears E. and W.
 63.00 Foot of descent, bears NE. and SW. Thence along W. slope
 with little change in elevation.
 81.18 Reestablished point for cor. of secs. 13, 14, 23 and 24,
 determined as hereinbefore described.
 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:

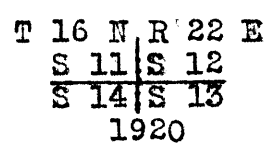


Dig pits 18 x 18 x 12 ins. in each sec. NE., SE., SW.,
 and NW., of post 3 ft. dist.
 Land, gently rolling.
 Soil, sandy and stony, 2nd and 3rd rate.
 No timber.
 Undergrowth, scattering greasewood and sagebrush.

N. 0° 20' E. on true line, bet. secs. 13 and 14.
 Over gently rolling land, through scattering undergrowth.
 Asc. very gradually over SW. slope.
 10.00 Low ridge, bears NW. and SE. Desc. very gradually over
 NE. slope.
 38.60 Road from Holbrook, Arizona, to the Petrified Forest,
 bears NW. and SE.
 40.16 (Midpoint) 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:



Dig pits 18 x 18 x 12 ins. N. and S. of post 3 ft. dist.
 Continue gradual descent over NE. slope.
 65.00 Thence over gradual W. slope with little change in ele-
 vation.
 80.32 Reestablished point for cor. of secs. 11, 12, 13 and 14,
 determined as hereinbefore described.
 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:



Chains Dig pits 18 x 18 x 12 ins. in each sec. NE., SE., SW.,
and NW., of post 3 ft. dist.
Land, gently rolling.
Soil, sandy 2nd and 3rd rate.
No timber.
Undergrowth, scattering greasewood and sagebrush.
Good grass.

N. 0° 04' W. on true line, bet. secs. 11 and 12.
Over gently rolling land, thru scattering undergrowth.
Asc. very gradually over W. slope.
40.27 (Midpoint) 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

$\frac{1}{4}$
 S 11 | S 12
 1920

Dig pits 18 x 18 x 12 ins. N. and S. of post, 3 ft. dist.
Continue very gradual ascent over W. slope.
80.54 Intersect the original cor. of secs. 1, 2, 11 and 12,
which is a sand stone 14 x 10 x 3 ins. above ground
firmly set, marked with 1 notch on E. edge and 5
notches on S. edge. No accessories.
Reestablish this cor. as follows:
Alongside old stone 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, mkd. on brass cap

T 16 N R 22 E
 S 2 | S 1
 S 11 | S 12
 1921

Raise a md. of stone, 2 ft. base, 1 $\frac{1}{2}$ ft. high W. of
cor.
Land, gently rolling.
Soil, sandy, 2nd rate.
No timber.
Undergrowth, scattering greasewood and sagebrush.
Good grass.

From reestablished cor. of secs. 1, 6, 7 and 12, on
E. bdy of Tp., hereinbefore described.
S. 89° 08' W., on true line, bet. secs. 1 and 12.
Over gently rolling land, thru scattering undergrowth.
Desc. very gradually over W. slope.
41.36 (Midpoint) 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 12, mkd. on brass cap:

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

Dig pits 18 x 18 x 12 ins. E. and W. of post, 3 ft. dist.
Continue very gradual descent over W. slope.
82.72 Intersect the reestablished cor. of secs. 1, 2, 11 and 12.
Land, gently rolling.
Soil, sandy, 2nd rate.
No timber.
Undergrowth, scattering greasewood and sagebrush.
Good grass.

Resurvey of Part of the Subdivision Lines of
T. 16 N., R. 22 E.

Boundaries of secs. 12, 13 and 24, T.16 N., R. 22 E. Latitudes, Departures and Closing Errors							
Line Designated	True Bearing	Distance	Latitudes		Departures		
			N.	S.	E.	W.	
Subdivisional Bdy	S. 89° 27' W	82.64		.79		82.64	
	N. 0° 41' W	81.18	81.17			.97	
	N. 0° 20' E	80.32	80.32		.47		
	N. 0° 04' W	80.54	80.54			.09	
	N. 89° 08' E	82.72	1.25		82.71		
East Tp. bdy.	S. 0° 24' E	40.68		40.68	.28		
	S. 0° 02' W	81.34		81.34		.05	
	S. 0° 13' E	40.67		40.67	.15		
	S. 0° 06' W	39.94		39.94		.07	
	S. 0° 12' E	40.06		40.06	.14		
Convergency					.04		
Totals			243.28	243.48	83.79	83.82	
				243.28		83.79	
Error in latitude			.20				
Error in departure					0.03		

Survey of Part (Completion) of the Subdivision
Lines of T. 16 N., R. 22 E.

Chains From the reestablished cor. of secs. 13, 14, 23 and 24, hereinbefore described:
Thence,
East, on a random line, bet. secs. 13 and 24.
40.00 Set temp. $\frac{1}{4}$ sec. cor.
83.48 Intersect the E. bdy. of Tp. 32 lks. N. of the reestablished cor. of secs. 13, 18, 19 and 24, hereinbefore described.
Thence,
N. $89^{\circ} 46'$ W., on true line bet. secs. 13 and 24. Over rolling and hilly land, thru scattering undergrowth. Asc. 23 ft. over SE. slope.
5.49 Spur slopes S. Desc. 21 ft. over SW. slope.
9.70 Draw, 25 lks. wide, course S. Asc. gradually over E. slope.
41.74 (Midpoint) Set an iron post, 3 ft. long, 1 in. in diam. 26 ins. in the ground for $\frac{1}{4}$ sec. cor. of sec. 24 only, marked on brass cap:

$\frac{1}{4}$ S 24
1921

43.48 Dig pits 18 x 18 x 12 ins. E. and W. of post, 3 ft. dist. Set an iron post, 3 ft. long, 1 in. in diam., 26 ins in the ground for $\frac{1}{4}$ sec. cor. of sec. 13 only, mkd. on brass cap:

$\frac{1}{4}$ S 13
1920

48.24 Dig pits 18 x 18 x 12 ins. E. and W. of post, 3 ft. dist. Continue gradual ascent over E. slope. Road from Woodruff, Arizona, to the Petrified Forest, bears NW. and SE.
77.80 Low ridge bears N. and S. Desc. slightly over W. slope.
83.48 The reestablished cor. of secs. 13, 14, 23 and 24. Land, rolling and hilly. Soil, sandy and stony, 2nd and 3rd rate. No timber. Undergrowth, scattering greasewood and sagebrush. Good growth of bunch grass.

From reestablished cor. of secs. 11, 12, 13 and 14, hereinbefore described.
East on true line bet. secs. 12 and 13.
Over rolling and hilly land, through scattering undergrowth. Asc. very gradually over W. slope.
40.00 Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in the ground for $\frac{1}{4}$ sec. cor. of sec. 13 only, marked on brass cap:

$\frac{1}{4}$ S 13
1920

41.40 Dig pits 18 x 18 x 12 ins. E. and W. of post 3 ft. dist. (Midpoint) Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in the ground for $\frac{1}{4}$ sec. cor. of sec. 12 only marked on brass cap:

$\frac{1}{4}$ S 12
1921

82.80 Dig pits 18 x 18 x 12 ins. E. & W. of post, 3 ft. dist. Desc. very gradually over SE. slope. Intersect E. bdy. of Tp. 60 lks. S. $0^{\circ} 02'$ W. from the reestablished cor. of secs. 7 and 18, hereinbefore

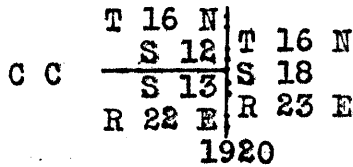
Survey of Part (Completion) of the Subdivision Lines
of T. 16 N., R. 22 E.

20.

Chains

described.

At point of intersection set an iron post 3 ft. long, 2 ins. in diam. 24 ins. in the ground for closing cor. of secs. 12 and 13, marked on brass cap:



Dig pits 18 x 18 x 12 ins. on line, N., S., and W., of post 3 ft. dist.

Land, rolling.

Soil, sandy 2nd and 3rd rate.

No timber.

Undergrowth, scattering sage brush.

Good growth bunch grass.

GENERAL DESCRIPTION.

That portion of T. 16 N., R. 22 E., embraced within the resurveys and surveys described in the foregoing field notes is a rolling prairie, having a general slope towards the west and southeast, the drainage being in a general southwesterly direction into the Little Colorado River, which flows through the western part of the township in a northerly direction. The soil is a sandy loam from 4 to 12 ins. deep, underlaid with clay and stone, is covered with a good growth of different kinds of grasses and affords excellent pasture for cattle and horses. The greater portion of the soil in this portion of the Tp. can be classed as 2nd rate and were climatic conditions favorable would produce different kinds of agricultural crops.

There is no timber and no water in this portion of the township, neither were any mineral deposits of any kind discovered during the progress of the survey.

There are no settlers on the land.

The land is best suited and most valuable at the present time for grazing purposes.

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 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, retraced surveyed all those parts or portions of the Fourth Standard Parallel North through Ranges 22 and 23 East, and the East boundary of Township 16 North, Range 22 East, and retraced, resurveyed, and surveyed all those parts or portions of the Subdivision lines of Township 16 North, Range 22 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 retracement survey of the Fourth Standard Parallel North through parts of Ranges 22 and 23 East, and of part of the East boundary of Township 16 North, Range 22 East, and of the Retracement, resurvey, and survey of part (completion) of the Subdivision lines of Township 16 North, Range 22 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. 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.