

2822

4-679

BOOK "P"

JUN 12 1914

FIELD NOTES

OF THE ^{RE}SURVEY OF THE

BOOK 2822

*Fourth Standard Parallel North
through Range 2 West*

(South boundary of Township 17 North - Range 2 West)

North & West

of the Gila & Salt River Base & Meridian Meridian,

In the State of *ARIZONA*

EXECUTED BY

Sidney E. Blout

In the capacity of U. S. Surveyor, under instructions dated *April 28*, 1913, issued by the United States Surveyor General to govern surveys included in Group No. *20*, which were approved by the Commissioner of the General Land Office, *May 10*, 1913, pursuant to authority contained in the Act of Congress dated _____, 191

Resurvey commenced *August 22*, 1913

Resurvey completed *September 2*, 1913

1A

BOOK 2822

Book "P"

2822

Group 20-Ariz.

INDEX DIAGRAM.

INDEXING RESURVEY OF THE 4TH STANDARD PARALLEL NORTH
AS THE SOUTH BOUNDARY OF
Township 17 NORTH, Range 2 WEST

6	5	4	3	2	1
7	8	9	10	11	12
18	17	16	15	14	13
<i>T. 17 N. R. 2 W.</i>					
19	20	21	22	23	24
30	29	28	27	26	25
31	32	33	34	35	36
83	73	73	62	52	42

4th Standard Parallel North

6-151

Retracement notes indexed in Red figures, thus: 2

Resurvey notes indexed in Black figures, thus: 4

Retracement & Resurvey 4th. Stand. Par. N., through Range 2 W. 1B

Chains.

Retracement and resurvey commenced August 22, 1913, and executed with a Young and Son's light mountain transit No. 10, with a Smith solar attachment, the horizontal limb being provided with two double verniers, placed opposite to each other, reading to single minutes of arc, which is also the least count of the verniers of the lat. and decl. arcs.

I 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, I proceed as follows:

At the cor. of secs. 11, 12, 13 and 14, T. 16 N., R. 2 W.; latitude, $34^{\circ} 46' 43''$ N.; longitude, $112^{\circ} 26'$ W., at 9h. 29m. p.m., by my watch, which is correct local mean time, I observe Polaris at eastern elongation in accordance with the Manual of Instructions, and mark the direction thus determined by a tack driven in a stake set in the ground, 5.00 chs. N. of my instrument.

August 22, 1913.

Aug. 23, 1913: At 7 a.m., l.m.t., I lay off the azimuth of Polaris $1^{\circ} 25'$ to the west, and mark the meridian thus determined by a tack driven in a stake set in the ground 5.00 chs. N. of my instrument.

At 8h. 2.5m. a.m., l.m.t., I set off $34^{\circ} 46\frac{1}{2}'$ N. on the lat. arc; $11^{\circ} 32\frac{1}{2}'$ N. on the decl. arc; and determine a meridian with the solar, and mark a point thereof by a tack driven in the stake already set 5.00 chs. N. of my instrument. This point falls 0.3 ins. east of the meridian established by the Polaris observation.

At apparent noon, I set off $11^{\circ} 28\frac{1}{2}'$ N. on the decl. arc; and observe the sun on the meridian, and obtain a reading of $34^{\circ} 46\frac{1}{2}'$ N. on the lat. arc;

At 3h. 2.5m. p.m., l.m.t., I set off $34^{\circ} 46\frac{1}{2}'$ N. on the lat. arc; $11^{\circ} 26'$ N. on the decl. arc, and determine a meridian with the solar, and mark a point thereof on the stake already set 5.00 chs. N. of my instrument, on which the solar meridian falls 0.4 ins. west of the meridian established by the Polaris observation.

The solar apparatus by a.m. and p.m. observations, defines positions for meridians, respectively about $0' 16''$ E. and $0' 21''$ W. of the meridian established by the Polaris observation; therefore, I conclude that the adjustments of the instrument are satisfactory.

August 23, 1913.

2. Retracement of the 4th. Stand. Par. North thro. Range 2 West.

Chains.	
	<p>I begin at the original standard cor. of Ts. 17 N., Rs. 1 and 2 W. on the 4th. Standard Parallel North, which is a granite stone, 12x12x5 ins. above ground, firmly set, marked and witnessed, as described by the Surveyor General. Latitude, 34° 49' 03" N.; longitude, 112° 24' 48" W.</p> <p>All measurements were made with 5.00 chain steel tapes, with clinometers for determining the slope angles. The magnetic bearing of the meridian at 8h. 00m. a.m., is N. 14° 15' W.; the angle thus determined gives the mag. decl. 14° 15' E.</p> <p>Aug. 25, 1913: At 8h. 02m. a.m., l.m.t., I set off 34° 49' N. on the lat. arc; 10° 51½' N. on the decl. arc; and determine a meridian with the solar at the above described standard Tp. cor.</p> <p>Thence I retrace the 4th Standard Parallel North, through Range 2 West, as follows:</p>
40.85	<p>West, on a random line on south bdy. of sec. 36.</p> <p>Fall 12 lks. south of the original standard ¼ sec. cor., which is a granite stone 12x12x8 ins. loosely set in mound of stone; marks nearly obliterated. No cor. accessories visible.</p> <p>True course and dist. of east half of south bdy. of sec. 36 is therefore N. 89° 50' W., 40.85 chs.</p> <p>From above described ¼ sec. cor., I run,</p>
38.49	<p>West, on a random line, on west half of S. bdy. of sec. 36.</p> <p>Fall 13 lks. S. of the original closing cor. of secs. 1 and 2, T. 16 N., R. 2 W., which is the decayed end of a stake in small mound of stone. No cor. accessories visible.</p>
40.43	<p>Continue line and measurement.</p> <p>Fall 13 lks. S. of the original standard cor. of secs. 35 and 36, which is a malpais stone 18x15x10 ins. set loosely in a mound of stone, marked with 1 groove on E. and 5 grooves on W. faces, with a small mound of stone N. of cor.</p> <p>True course and dist. of W. half of south bdy. of sec. 36 is therefore N. 89° 49' W., 40.43 chs.</p>
40.00	<p>-----</p> <p>From the original standard cor. of secs. 35 and 36, I run, West, on a random line on south bdy. of sec. 35.</p> <p>No trace of the original standard ¼ sec. cor. can be found after a very diligent search. Set temp. ¼ sec. cor., and continue line and measurement.</p>
77.86	<p>No trace of the original closing cor. of secs. 2 and 3, T. 16 N., R. 2 W. can be found after diligent search.</p>
80.00	<p>Continue line and measurement.</p> <p>No trace of the original standard cor. of secs. 34 and 35 can be found.</p> <p>Set temp. cor. at this point.</p>
120.00	<p>-----</p> <p>Continue line and measurement on south bdy. of sec. 34.</p> <p>No trace of the original standard ¼ sec. cor., can be found after a diligent search. Set temp. ¼ sec. cor., and continue line and measurement.</p>
157.94	<p>No trace of the original closing cor. of secs. 3 and 4, T. 16 N., R. 2 W. can be found after a diligent search. Continue line and measurement.</p>
160.00	<p>No trace of the original standard cor. of secs. 33 and 34 can be found after diligent search.</p> <p>Set temp. cor. at this point.</p> <p>At this point, I set off 10° 47½' N. on the decl. arc; and at apparent noon, observe the sun on the meridian, and obtain a reading of 34° 49' N. on the lat. arc.</p> <p>-----</p>

Retracement of 4th Standard Parallel North thro. Range 2 W. 3.

Chains.

- 200.00 Continue line and measurement on south bdy. of sec. 33. No trace of the original standard $\frac{1}{4}$ sec. cor. can be found after a diligent search. Set temp. $\frac{1}{4}$ sec. cor., and continue line and measurement.
- 238.04 No trace of the original closing cor. of secs. 4 and 5 can be found after a diligent search. Continue line and measurement.
- 242.80 Fall 190 lks. N. of the original standard cor. of secs. 32 and 33, which is a granite boulder $12 \times 9 \times 7$ ins., loosely set in a mound of stone, marked with 4 grooves on E., and 2 grooves on W. faces. No cor. accessories visible.
- True course and dist. of line south of secs. 35, 34, and 33 is therefore $S. 89^\circ 33' W.$, 242.82 chs.
August 25, 1913.

Aug. 26, 1913: At 8h. 01.8m. a.m., l.m.t., I set off $34^\circ 49'$ N. on the lat. arc; $10^\circ 30\frac{1}{2}' W.$ on the decl. arc; and determine a meridian with the solar at the original standard cor. of secs. 32 and 33, described above.

- Thence I run,
West, on a random line on south bdy. of sec. 32.
- 40.00 No trace of the original standard $\frac{1}{4}$ sec. cor. can be found after a diligent search. Set temp. $\frac{1}{4}$ sec. cor., and continue line and measurement.
- 77.90 No trace of the original closing cor. of secs. 5 and 6, T. 16 N., R. 2 W. can be found after a diligent search. Continue line and measurement.
- 80.00 No trace of the original standard cor. of secs. 31 and 32, can be found after diligent search.
Set temp. cor. at this point.

- 120.00 Continue line and measurement on south bdy. of sec. 31. No trace of the original standard $\frac{1}{4}$ sec. cor. can be found after a diligent search.
Set temp. $\frac{1}{4}$ sec. cor., and continue line and measurement.
- 156.10 No trace of the original closing cor. of Ts. 16 N., Rs. 2 and 3 W. can be found after a diligent search. Continue line and measurement.
- 160.80 Fall 955 lks. S. of the remains of the original standard cor. of Ts. 17 N., Rs. 2 and 3 W., which is a black malpais stone $10 \times 9 \times 8$ ins. lying on a mound of stone 3 ft. in diam., 8 ins. high, marked 6 notches on three edges. No cor. accessories visible.
- Clouds obscure the sun at noon today, rendering an observation for latitude impossible. True course & dist. of line S. of secs 32 & 31 is therefore $N. 86^\circ 36' W.$ 161.08 chs.
- I find from my retracement of this line that many of the cors. have become lost or obliterated, and that those which still remain are in a state of dilapidation; therefore, I resurvey the 4th Standard Parallel N., through Range 2 West, 2 W., reconstructing the defective cors. in their original positions, and reestablishing the remaining lost or obliterated corners on true lines between existing corners at distances proportional to the distances shown on the original plat, as described in the following notes:

Resurvey of the 4th. Standard Parallel N., thro. Range 2 W.
Chains.

- Sept. 2, 1913: I set off $34^{\circ}49'N.$ on the lat. arc; $7^{\circ}56'$ N. on the decl. arc; and at 1h.00m.p.m., 1.m.t., determine a meridian with the solar at the original standard cor. of Ts.17 N., Rs.1 and 2 W., hereinbefore described.
- Thence I run,
N. $89^{\circ}50'W.$, on a true line on east half of south bdy. of sec.36.
- 4.00 Descend NW. slope of granite ridge, over stony hilly land. Foot of ridge, leave hilly land, brs. NE. and SW.; enter rolling land, slopes to the west.
- 5.70 Dry ravine, 10 lks. wide, 2 ft. deep, course SW. Ascend gentle SE. slope.
- 8.00 Leave rolling land, brs. NE. and SW. Ascend SE. slope of ridge, over stony hilly land.
- 30.00 Top of ridge, brs. N. and S.; descend.
- 40.75 Dry ravine, 5 lks. wide, 2 ft. deep, course $S.10^{\circ}W.$ Ascend along SE. slope.
- Difference between measurements of 40.85 chs. by two sets of chainmen is 2 lks.; position of middle point,
By 1st set, 40.86 chs.,
By 2nd set, 40.84 chs., the mean of which is
- 40.85 Intersect the original standard $\frac{1}{4}$ sec. cor. hereinbefore described, which I destroy, and reestablish it in the same place as follows:
Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in the ground for standard $\frac{1}{4}$ sec. cor., marked on brass cap,
 $\frac{1}{4}$ S 36 in N. half;
1914 in S. rim;
and raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high, N. of cor. Pits impracticable.
- Thence I run, continuing measurement,
N. $89^{\circ}50'W.$, on a true line, on west half of south bdy. of sec.36.
- 50.50 Top of stony ridge, brs. NE. and SW. Descend.
- 79.34 Intersect remains of the original closing cor. of secs. 1 and 2, T.16 N., R.2 W., hereinbefore described, which I destroy, and reestablish cor. in same place as follows:
Set an iron post 3 ft. long, 2 ins. in diam., 24 ins. in the ground for closing cor. of secs. 1 and 2, marked on brass cap,
1913 in S. rim;
T 16 N R 2 W,
S 35 S 36 in N. half;
S 1 in SE., and
S 2 in SW. quadrants;
raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high, S. of cor. Pits impracticable.
- Continue line and measurement.
- Difference between measurements of 81.28 chs. by two sets of chainmen is 6 lks., position of middle point,
By 1st set, 81.31 chs.,
By 2nd set, 81.25 chs., the mean of which is
- 81.28 Intersect the original standard cor. of secs. 35 and 36, hereinbefore described, which I destroy, and reestablish it in the same place as follows:
Set an iron post 3 ft. long, 3 ins. in diam., 24 ins. in the ground for standard cor. of secs. 35 and 36, marked on brass cap,
1913 in S. rim;
T 17 N R 2 W in N. half;
S 35 in NW., and
S 36 in NE. quadrants;
and raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high, N. of cor. Pits impracticable.
- Land, rolling and hilly, south slope.
Soil, stony, worthless; light growth bunch grass.
No timber.

Resurvey of the 4th. Stand. Parallel North, thro Range 2 W. 5.

Chains.	
	From the reestablished standard cor. of secs. 35 and 36, above described, I run;
	S. $89^{\circ}33'W.$, on a true line, on south bdy. of sec. 35.
	Descend SW. slope, over rolling, gravelly and stony land.
19.00	Wire fence brs. N. and S.
27.00	Dry ravine, 10 lks. wide, course NW.; leave gravelly and stony land, over sandy land.
31.30	Telephone line brs. N. and S. (long distance).
32.90	Local telephone line, brs. N. and S.
34.60	Center of S. F. & P. Ry. track, brs. N. and S.
35.22	Telegraph line, brs. N. and S.
35.95	Road from Jerome Junction to Del Rio, Arizona, brs. N. and S.
36.36	Wire fence brs. N. and S.
37.60	Dry ravine, 20 lks. wide, 3 ft. deep; course NE.
	Difference between measurements of 40.47 chs. (proportional distance) by two sets of chainmen is 4 lks.; position of middle point by
	By 1st set, 40.49 chs.,
	By 2nd set, 40.45 chs., the mean of which is
40.47	Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in the ground, for reestablished standard $\frac{1}{4}$ sec. cor., marked on brass cap,
	1913 in S. rim;
	$\frac{1}{4}$ S 35 in N. half;
	dig pits 18x18x12 ins., E. and W. of post 3 ft. dist., and raise a mound of earth $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high, N. of cor.
	From this cor., M. W. Storm's house brs. N. $65^{\circ}W.$
	From this cor., M. W. Storm's barn brs. N. $57^{\circ}W.$
48.58	Wire fence brs. N. and S. Enter cultivated land, brs. N. 10 chs., and S. 6 chs. dist.
55.29	Wire fence, brs. N. and S.; leave cultivated land, brs. N. 10 chs. and S. 6 chs. dist.
72.53	Road from Prescott to Seligman, Arizona, brs. N. $20^{\circ}E.$ and S. $20^{\circ}W.$
76.75	Automobile road from Prescott to Ash Fork, Arizona, brs. N. $20^{\circ}W.$ and S. $20^{\circ}E.$
	Difference between measurements of 78.78 chs. (proportional distance) by two sets of chainmen is 5 lks.; position of middle point,
	By 1st set, 78.805 chs.,
	By 2nd set, 78.755 chs., the mean of which is
78.78	Set an iron post 3 ft. long, 2 ins. in diam., 24 ins. in the ground for reestablished closing cor. of secs. 2 and 3, T. 16 N., R. 2 W., marked on brass cap,
	1913 in S. rim;
	T 16 N, R 2 W, S 34 S 35 in N. half;
	S 2 in SE., and
	S 3 in SW. quadrants;
	dig pits 24x18x12 ins., crosswise on each line E. and W. 4 ft., and S. of post 7 ft. dist., and raise a mound of earth 4 ft. base, 2 ft. high, S. of cor.
	Continue line and measurement,
	Difference between measurements of 80.94 chs. (proportional distance) by two sets of chainmen is 4 lks.; position of middle point,
	By 1st set, 80.96 chs.,
	By 2nd set, 80.92 chs., the mean of which is
80.94	Set an iron post 3 ft. long 3 ins. in diam., 24 ins. in the ground for reestablished standard cor. of secs. 34 and 35, marked on brass cap,
	1913 in S. rim;
	T 17 N R 2 W in N. half;
	S 34 in NW., and
	S 35 in NE. quadrant;
	dig pits 24x18x12 ins., crosswise on each line, E. and W. 4 ft., and N. of post 7 ft. dist., and raise a mound of earth 4 ft. base, 2 ft. high, N. of cor.
	East 20 chs. rolling west slope.
	Soil, light, dry gravelly loam, 8 to 14 ins. deep on clay

6. Resurvey of 4th Stand Parallel North thro. Range 2 W.

Chains.

subsoil. West 60.94 chs., rolling NE. slope. Soil, rich dark sandy loam, 12 to 18 ins. deep on clay subsoil. Light growth bunch grass. No timber.
 From this cor. M. W. Storm's house brs. N. $77\frac{1}{2}^{\circ}$ E.
 From this cor. M. W. Storm's barn brs. N. $66\frac{1}{2}^{\circ}$ E.

 From the reestablished standard cor. of secs. 34 and 35, above described, I run,

S. $89^{\circ}33'$ W. on a true line, on south bdy. of sec. 34. Over rolling, sandy prairie land.

8.26 Old road to Jerome Junction, Arizona, brs. NW. and SE.

8.30 Pipe line, brs. N. 10° E. and S. 10° W.

8.41 Power transmission line from Prescott to Del Rio, Arizona, brs. N. 10° E. and S. 10° W.

Difference bet. measurements of 40.47 chs. (proportional distance) by two sets of chainmen is 2 lks., position of middle point,

By 1st set, 40.45 chs.,

By 2nd set, 40.48 chs., the mean of which is

is

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

1913 in S. rim,

$\frac{1}{4}$ S 34 in N. half;

dig pits 18x18x12 ins., E. and W. of post, 3 ft. dist., and raise a mound of earth $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high, N. of cor.

Difference between measurements of 78.86 chs. (proportional distance) by two sets of chainmen is 4 lks., position of middle point,

By 1st set, 78.88 chs.,

By 2nd set, 78.84 chs., the mean of which is

78.86 Set an iron post 3 ft. long, 2 ins. in diam., 24 ins. in the ground for reestablished closing cor. of secs. 3 and 4, T. 16 N., R. 2 W., marked on brass cap,

1913 in S. rim;

C C S of center,

T 16 N, R 2 W, S 33, S 34 in N. half;

S 3 in SE., and

S 4 in SW. quadrants;

dig pits 24x18x12 ins., crosswise on each line, E. and W. 4 ft., and S. of post 7 ft. dist., and raise a mound of earth 4 ft. base, 2 ft. high, S. of cor.

Continue line and measurement.

Difference between measurements of 80.94 chs. (proportional distance) by two sets of chainmen is 2 lks.; position of middle point,

By 1st set, 80.93 chs.

By 2nd set, 80.95 chs., the mean of which is

80.94 Set an iron post 3 ft. long, 3 ins. in diam., 24 ins. in the ground for reestablished standard cor. of secs. 33 and 34, marked on brass cap,

1913 in S. rim;

T 17 N R 2 W in N. half;

S 33 in NW., and

S 34 in NE. quadrants;

dig pits 24x18x12 ins., crosswise on each line, E. and W. 4 ft., and N. of post 7 ft. dist., and raise a mound of earth 4 ft. base, 2 ft. high, N. of cor.

Land, rolling prairie N. slope.

Soil, light dry sandy loam 12 to 16 ins. deep on clay subsoil.

Good growth bunch grass.

No timber.

Resurvey of 4th Stand. Parallel North thro. Range 2 West. 7.

Chains.	
21.22	<p>From the reestablished standard cor. of secs. 33 and 34, above described, I run, S. $89^{\circ}53'$ W., on a true line, on south bdy. of sec. 33. Over rolling, sandy, prairie land. Old wood road, brs. NW. and SE.</p>
40.47	<p>Difference between measurements of 40.47 chs. (proportional distance) by two sets of chainmen is 2 lks.; position of middle point, By 1st set, 40.48 chs., By 2nd set, 40.46 chs., the mean of which is</p>
43.20	<p>Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in the ground for reestablished standard $\frac{1}{4}$ sec. cor., marked on brass cap, 1913 in S. rim; $\frac{1}{4}$ S 33 in N. half; dig pits 18x18x12 ins., E. and W. of post 3 ft. dist., and raise a mound of earth $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high, north of cor.</p>
71.05	<p>Top of low sandy ridge, brs. NE. and SW.; descend gradually over NW. slope.</p>
78.96	<p>Dry ravine, 20 lks. wide, 4 ft. deep, course N. 40° E.; ascend gradually. Difference between measurements of 78.96 chs. (proportional distance) by two sets of chainmen is 3 lks. By 1st set 78.975 chs., By 2nd set, 78.945 chs., the mean of which is</p>
80.00	<p>Set an iron post 3 ft. long, 2 ins. in diam., 24 ins. in the ground for reestablished closing cor. of secs. 4, and 5, T. 16 N., R. 2 W., marked on brass cap, 1913 in S. rim; C C S of center, T 16 N R 2 W, S 32, S 33 in N. half; S 4 in SE., and S 5 in SW. quadrants; dig pits 24x18x12 ins., crosswise on each line, E. and W. 4 ft., and S. of post 7 ft. dist., and raise a mound of earth 4 ft. base, 2 ft. high, S. of cor.</p>
80.94	<p>Continue line and measurement. Leave rolling, sandy land, brs. NE. and SW. Ascend SE. slope, over stony, hilly land.</p>
80.94	<p>Difference between measurements of 80.94 chs. (proportional distance) by two sets of chainmen is 4 lks., position of middle point, By 1st set, 80.96 chs., By 2nd set, 80.92 chs., the mean of which is</p>
34.00	<p>Intersect the original standard cor. of secs. 32 and 33, hereinbefore described, which being in a state of dilapidation, I destroy and reestablish in the same place as follows: Set an iron post, 3 ft. long, 3 ins. in diam., 24 ins. in the ground for standard cor. of secs. 32 and 33, marked on brass cap, 1913 in S. rim; T 17 N R 2 W in N. half; S 32 in NW., and S 33 in NE. quadrants; raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high, N. of cor. Pits impracticable. Land, rolling prairie, N. slope. Soil, light gray sandy loam, dry on clay subsoil. Good growth bunch grass. No timber.</p>
34.00	<p>----- From the reestablished standard cor. of secs. 32 and 33, I run, N. $86^{\circ}36'$ W., on a true line, on south bdy. of sec. 32. Ascend SE. slope, over stony hilly land, through scattering greasewood brush undergrowth, 3 ft. high. Top of stony ridge, brs. NW. and SE. Descend gradually. Difference bet. measurements of 40.27 chs. (proportional distance) by two sets of chainmen is 4 lks.; position of middle point,</p>

8. Resurvey of the 4th Stand. Parallel N. through Range 2 W.

- Chins.
- 40.27 By 1st set, 40.29 chs.,
By 2nd set, 40.25 chs., the mean of which is
Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in
the ground for reestablished standard $\frac{1}{4}$ sec. cor., with
brass cap, marked, 1913 in S. rim; and
 $\frac{1}{4}$ S 32 in N. half; and raise a
mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high, N. of cor.
Pits impracticable.
- 43.05 Dry ravine, 10 lks. wide, course SE.; ascend.
Difference between measurements of 78.43 chs. (propor-
tional distance) by two sets of chainmen is 5 lks.,
position of middle point,
By 1st set, 78.455 chs.
By 2nd set, 78.405 chs., the mean of which is
- 78.43 Set an iron post 3 ft. long, 2 ins. in diam., 24 ins. in
the ground for reestablished closing cor. of secs. 5
and 6 of T. 16 N., R. 2 W., marked on brass cap,
1913 in S. rim;
C C S of center,
T 16 N R 2 W, S 31 S 32 in N. half;
S 5 in SE., and
S 6 in SW. quadrant;
raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high, S. of
cor. Pits impracticable.
- 79.65 Continue measurement.
Old wood road brs. NW. and SE.
Difference between measurements of 80.54 chs. (propor-
tional distance) by two sets of chainmen is 6 lks.;
position of middle point,
By 1st set, 80.57 chs.,
By 2nd set, 80.51 chs., the mean of which is
- 80.54 Set an iron post 3 ft. long, 3 ins. in diam., 24 ins. in
the ground for reestablished standard cor. of secs. 31
and 32, marked on brass cap,
1913 in S. rim;
T 17 N R. 2 W in N. half;
S 31 in NW., and
S 32 in NE. quadrant;
raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high, N. of
cor. Pits impracticable.
Land, hilly prairie SE. slope.
Soil, light poor stony loam, 4 to 8 ins. deep on clay
and limestone shale subsoil.
Good growth bunch grass.
No timber.
-
- From the reestablished stand. cor. of secs. 31 & 32, I run,
N. 86° 36' W. on a true line, on south bdy. of sec. 31.
Ascend SE. slope, over stony hilly land, through scattering
greasewood brush undergrowth, 3 ft. high.
- 15.00 Enter scattering cedar timber, brs. N. and S.
25.00 Top of ridge, brs. NE. and SW. Descend.
30.00 Head of dry ravine, course NE. Ascend abrupt east slope
of high rocky ridge.
- Difference between measurements of 40.27 chs. (proportion-
al distance) by two sets of chainmen is 6 lks.; posi-
tion of middle point,
By 1st set, 40.24 chs.,
By 2nd set, 40.30 chs., the mean of which is
- 40.27 Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in the
the ground for reestablished standard $\frac{1}{4}$ sec. cor.,
marked on brass cap, 1913 in S. rim;
 $\frac{1}{4}$ S 31 in N. half;
no trees suitable for bearing treew within limits;
raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high, N. of cor.
Pits impracticable.
- 49.50 Top of ascent on ridge, brs. NE. and SW., 200 ft. above
sec. cor. Descend.
- 73.75 Dry ravine, 20 lks. wide, course S. 30° W. Ascend SE. slope.
Difference between measurements of 76.62 chs. (proportion-
al distance) by two sets of chainmen is 4 lks., position
of middle point, by 1st set, 76.60 chs., by 2nd set,
76.64 chs., the mean of which is

Resurvey of the 4th. Stand. Parallel N. thro. Range 2 West. 9.

Chains.

76.62

Set an iron post 3 ft. long, 3 ins. in diam., 24 ins. in the ground, for reestablished closing cor. of Ts. 16 N., Rs. 2 & 3 W., marked on brass cap, 1913 in S. rim;

C C S of center,

T 17 N R 2 W, R 3 W, S 31, S 36 in N., and

T 16 N in S. half;

R 2 W S 6 in SE., and

R 3 W, S 1 in SW. quadrants; from which,

A cedar, 12 ins. in diam., brs. S. $64\frac{1}{2}^{\circ}$ E., 188 lks. dist., marked T 16 N R 2 W S 6 B T.

A cedar 14 ins. in diam., brs. S. 82° W., 56 lks. dist., marked T 16 N, R 3 W S 1 B T.

Difference between measurements of 80.54 chs. (proportional distance) by two sets of chainmen is 6 lks.; position of middle point,

By 1st set, 80.51 chs.,

By 2nd set, 80.57 chs., the mean of which is

80.54

Intersect the original standard cor. of Ts. 17 N., Rs. 2 and 3 W. hereinbefore described, which I destroy, and reestablish in the same place as follows:

Set an iron post 3 ft. long, 3 ins. in diam., 24 ins. in the ground for standard cor. of Ts. 17 N., Rs. 2 and 3 W., marked on brass cap,

1913 in S. rim;

T 17 N in N. half;

R 3 W, S 36 in NW., and

R 2 W S 31 in NE. quadrant; from which,

A cedar, 16 ins. in diam., brs. N. $30\frac{1}{2}^{\circ}$ W., 138 lks. dist., marked T 17 N R 3 W S 36 B T.

A cedar, 16 ins. in diam., brs. N. $15\frac{1}{2}^{\circ}$ E., 176 lks. dist., marked T 17 N, R 2 W S 31 B T.

Land, broken and hilly, drains to the south; ridges steep, with light poor stony loam, 4 to 8 ins. deep on clay and limestone shale subsoil.

Light growth bunch grass. Timber, cedar.

Sept. 2, 1913.

GENERAL DESCRIPTION.

Through Range 2 West, the 4th. Standard Parallel North, traverses for the most part a rolling prairie country. The land south of the line is a rolling, sandy prairie country, poorly watered, and with very little timber, while that to the north is hilly along the east and west boundaries of T. 17 N., R. 2 W., and level in the central portion of the township.

Signed by *Sidney E. Blout*
U. S. Surveyor.

FOR FINAL OATH OF UNITED STATES SURVEYOR.

See Book "0" of this group.

I, _____, U. S. Surveyor, do solemnly swear that, in pursuance of special instructions received from the U. S. Surveyor General for _____ bearing date of the _____ day of _____, 191____, I have well, faithfully, and truly, in my own proper person, and in strict conformity with said instructions, the Manual of Surveying Instructions, and the laws of the United States, surveyed all those parts or portions of _____ of the _____ Meridian, in the State of _____, which are represented in the foregoing field notes as having been executed by me, and under my direction; and I do further solemnly swear that all the corners of 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 _____ and in the specific manner described in the field notes, and that the foregoing are the original field notes of such survey.

U. S. Surveyor.

Subscribed by said _____, and sworn to before me }
 this _____ day of _____, 191____



APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Phoenix Arizona, November 29, 1915

The foregoing field notes of the retracement and resurvey of the
 Fourth Standard Parallel North
 thru Range 2 West,
 of the Gila and Salt River Meridian
 in the State of Arizona.

executed by Sidney E. Blout, U.S. Surveyor
 under his special instructions dated April 28, 1913 for Group 20, 191____, having been critically examined, and the necessary corrections and explanations made, the said field notes, and the retracements and resurveys they describe, are hereby approved.

Frank Sengall
 Surveyor General.
 of Arizona.

~~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.~~