

BOOK "S"

FIELD NOTES

OF THE RESURVEY OF THE

South, West, and East Boundaries of Tp. 22 S. Rg. 26 E

Of the Gila and Salt River Base and Meridian,

In the State of Arizona.

EXECUTED BY

John F. Hesse

In the capacity of U. S. Surveyor, under instructions dated April 3rd, 1913, issued by the United States Surveyor General to govern surveys included in Group No. 18, which were approved by the Commissioner of the General Land Office, April 23rd, 1913, pursuant to authority contained in the Act of Congress dated August 23rd, 1912

Re-Survey commenced June 17, 1913

Re-Survey completed June 21, 1913

Book No. 2669

BOOK 2669

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Township 22 S, Range 26 E

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 Indicates Resurvey.

Resurvey of the south boundary of T. 22 S. R. 26 E.

Chains.

Re Survey commenced June 17, 1913 and executed with a W. & L. E. Gurley transit, not numbered, with solar attachment. The horizontal limb is provided with one double vernier reading to single minutes of arc, which is also the least count of the verniers of the latitude and declination arcs.

The instrument was approved by the Supervising Surveyor August 28, 1912.

The cor. of Tps. 22 and 23 S. Rgs. 26 and 27 E. is a mound and deposit with a stake firmly set, marked as described by the surveyor general.

I destroy this old cor. and re-establish it in the same place as follows:-

Set an iron post 3 ft. long, 3 ins. diam., 24 ins. in the ground for cor. of Tps. 22 and 23 S., Rgs. 26 and 27 E. marked on brass cap, 1913;

T22S in N.

R27E in E.

T23S in S. and

R26E in W. half,

S36 in N. W.

S31 in N. E.

S6 in S. E. and

S1 in S. W. quadrant; dig pits 24 x 24 x 12 ins. on each line, N., E., and W., 4 ft. and S. of post 8 ft. dist., and raise a mound of earth 5 ft. base 2½ ft. high, S. of cor.

At this cor. I set off 31° 28' N. on the lat. arc; 23° 24' N. on the decl. arc; and at 7h. 00m. a.m., l.m.t., determine a meridian with the solar

Thence I run

S. 89° 59' W., on a random line, bet. secs. 1 and 36

40.38 Fall 40 lks. S. of old ¼ sec. cor. a stake nearly destroyed, with marks visible but illegible, lying on a small mound of earth. True course and dist. of this ½ mile is therefore N. 89° 27' W., 40.38 chs.

Thence I run, S. 89° 59' W., on random line on W½ mile

80.00 Make careful search but am unable to find any trace of the old cor. of secs. 1, 2, 35 and 36. Set temp. point for cor.

From above temp. point for cor of secs. 1, 2, 35 & 36, I run S. 89° 59' W., on random line, bet. secs. 2 and 35

40.00 Make careful search but am unable to find any trace of the old ¼ sec. cor. Set temp. point for ¼ sec. cor. and continue random line S. 89° 59' W.

81.95 Fall 63 lks. S. of old cor. of secs. 2, 3, 34 and 35 which is a stake marked as described by the surveyor general, firmly set, True course & dist. of line from old ¼ sec. cor. on S. bdy. of sec. 36 is therefore N. 89° 43' W.,

121.95 chs.

From above described old cor. of secs. 2, 3, 34 and 35, I run, S. 89° 59' W., on random line, bet. secs. 3 and 34

40.00 Make careful search but am unable to find any trace of the old ¼ sec. cor. Set temp. point for ¼ sec. cor.

and continue my random line, S. 89° 59' W., on W½ mile

80.86 Fall 52 lks. S. of position of old cor. of secs. 3, 4, 33 and 34, which is marked by an iron pipe 1 in. diam., 24 ins. long, set firmly in the ground, True course & dist. of this mile is therefore N. 89° 39' W., 80.86 chs.

From above described cor. position. I run

S. 89° 59' W., on random line, bet. secs. 4 and 33,

40.00 Make careful search but am unable to find any trace of the old ¼ sec. cor. Set temp. point for ¼ sec. cor.

and continue my random line. S. 89° 59' W. on W½ mile

80.00 Make careful search but am unable to find any trace of the old cor. of secs. 4, 5, 32 and 33. Set temp. cor. point.

Note: At this cor. I set off 23° 23½' N. on the decl. arc; and observe the sun on the meridian at noon; the resulting lat. is 31° 23' N.

Resurvey of the south boundary of T. 22 S., R. 26 E.

Chains. From temp. point for cor. of secs. 4, 5, 32 & 33, I run my random line S. 89° 59' W., bet. secs. 5 and 32 point.
 40.00 Make careful search but am unable to find any trace of the old $\frac{1}{4}$ sec. cor. Set temp. point for $\frac{1}{4}$ sec. cor. and continue random line S. 89° 59' W.
 79.30 Fall 41 lks. S. of old cor. of secs. 5, 6, 31 and 32, the remains of a stake, badly rotted with marks illegible, no trace of pits or mound. True course & dist. of line from old cor. of secs. 3, 4, 33 & 34 is therefore N. 89° 52' W., 159.30 chs.

From above described old cor. of secs. 5, 6, 31 & 32, I run, S. 89° 59' W., on random line, bet. secs. 6 and 31
 40.00 Make careful search but am unable to find any trace of the old $\frac{1}{4}$ sec. cor., ^{set temp. point for $\frac{1}{4}$ sec. cor.} and continue my ^{random} line, S. 89° 59' W.
 80.44 Fall 21 lks. S. of the old cor. of Tps. 22 and 23 S. Rgs. 25 and 26 E. which is a stone marked and witnessed as described by the surveyor general. I destroy all traces of this cor. and re-establish it in the same place as follows;
 Set an iron post 3 ft. long, $\frac{3}{8}$ ins. diam., 24 ins. in the ground for cor. of Tps. 22 and 23 S. Rgs. 25 and 26 E. marked on brass cap, 1913;
 T22S in N.
 R26E in E.
 T23S in S. and
 R25E in W. half,
 S36 in N. W.
 S31 in N. E.
 S6 in S. E. and
 S1 in S. W. quadrant; raise a mound of stone 2 ft. base $1\frac{1}{2}$ ft. high, S. of cor. Pits impracticable.
 True course and dist. of this mile is therefore N. 89° 52' W. 80.44 chs.

I examine the adjustments of the transit and find them correct; 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 determined by observations on Polaris, I proceed as follows:

At my camp which is located near the cor. of secs. 15, 16, 21 and 22, T. 22 S. R. 26 E.; latitude $31^{\circ} 30\frac{1}{2}'$ N., longitude $109^{\circ} 43' 02''$ W.; I set off $31^{\circ} 30\frac{1}{2}'$ N. on the lat. arc; $23^{\circ} 25'$ N. on the decl. arc; and, at 5h. 00m. p.m., l.m.t., determine with the solar a meridian and mark a point thereof, on a stone firmly set in the ground 5 chs. N. of my point.

June 17, 1913.

June 18¹⁹¹³. At 1h. 48m. a.m., by my watch, which has correct l.m.t., I observe Polaris at eastern elongation, in accordance with Manual of Instructions, and mark a point in the line thus determined, on a peg driven in the ground 5 chs. N. of my station.

At 6h. 30m. a.m., l.m.t., I lay off the azimuth of Polaris $1^{\circ} 22'$ to the west, and mark the meridian thus determined, by cutting a small groove in the stone set June 17, on which the meridian falls 0.4 ins. east of the mark determined by the solar.

At 7h. 00m. a.m., l.m.t., I set off $31^{\circ} 30\frac{1}{2}'$ N. on the lat. arc; $23^{\circ} 25\frac{1}{2}'$ N. on the decl. arc; and mark a point in the meridian determined with the solar, by a cross on the stone already set 5 chs. N. of my station.; this mark falls 0.4 ins. east of the meridian established by the Polaris observation.

The solar apparatus by p.m. and a.m. observations, defines positions for meridians, respectively about $0^{\circ} 21''$ west and east of the meridian established by the Polaris observations, therefore, I conclude that the adjustments of the instrument are satisfactory.

The magnetic bearing of the true meridian, at 7h. 10m.

Resurvey of the south boundary of T. 22 S. R. 26 E.

Chains.

a.m., is N. 13° 40' W., the angle thus determined gives the magnetic decl. 13° 40' E.

I commence at the cor. of Tps. 22 and 23 S. Rgs. 26 and 27 E., reestablished by me yesterday as hereinbefore,

Thence I run ^{described}

N. 89° 27' W., bet. secs. 1 and 36, on true line, Over level land, along in road.

40.38.

The old 1/4 sec. cor. I destroy this cor. and reestablish it in the same place as follows;

Set an iron post 3 ft. long, 1 in. diam., 26 ins. in the ground for 1/4 sec. cor., marked on brass cap 1913, S36 in N. and S1 in S. half; dig pits 18 x 18 x 12 ins. E. and W. of post 3 ft. dist., and raise a mound of earth 3 1/2 ft. base 1 1/2 ft. high N. of cor.

Thence from 1/4 sec. cor. I run.

40.65

N. 89° 43' W., on true line,

Set an iron post 3 ft. long, 3 ins. diam., 24 ins. in the ground for re-established cor. of secs. 1, 2, 35 and 36, marked on brass cap, 1913;

- T22S in N.
- T23S in S. and
- R26E in W. half;
- S35 in N. W.
- S36 in N. E.

S1 in S. E. and S2 in S. W. quadrant; dig pits 18 x 18 x 12 ins. in each sec. 5 1/2 ft. dist.; and raise a mound of earth 4 ft. base 2 ft. high, W. of cor.

Land, level.

Soil, rich sandy loam, over 2 ft. deep, dry, medium texture; 1st. rate.

No timber.

40.65

N. 89° 43' W., bet. secs. 2 and 35., on true line, Over level land, along in road.

Set an iron post 3 ft. long, 1 in. diam., 26 ins. in the ground for re-established 1/4 sec. cor., marked on brass cap 1913, S35 in N. and S2 in S. half; dig pits 18 x 18 x 12 ins. E. and W. of post 3 ft. dist., and raise a mound of earth 3 1/2 ft. base 1 1/2 ft. high, N. of cor.

81.30

Set an iron post 3 ft. long, 3 ins. diam., 24 ins. in the ground for re-established cor. of secs. 2, 3, 34 and 35, marked on brass cap, 1913;

- T22S in N.
- T23S in S. and
- R26E in W. half;
- S34 in N. W.
- S35 in N. E.

S2 in S. E. and S3 in S. W. quadrant; dig pits 18 x 18 x 12 ins. in each sec. 5 1/2 ft. dist.; and raise a mound of earth 4 ft. base 2 ft. high, W. of cor.

I destroy all traces of the old cor.

Land, level.

Soil, rich sandy loam, over 2 ft. deep, dry, medium texture; 1st. rate.

No timber.

40.43

N. 89° 39' W., bet. secs. 3 and 34, on true line, Over level land, along in road.

Set an iron post 3 ft. long, 1 in. diam., 26 ins. in the ground for re-established 1/4 sec. cor., marked on brass cap 1913, S34 in N. and S3 in S. half; dig pits 18 x 18 x 12 ins. E. and W. of post 3 ft. dist., and raise a mound of earth 3 1/2 ft. base 1 1/2 ft. high, N. of cor.

80.86

Set an iron post 3 ft. long, 3 ins. diam., 24 ins. in the ground for re-established cor. of secs, 3, 4, 33 and 34, marked on brass

Resurvey of the south boundary of T22 S. R. 26 E.

Chains.

cap, 1913;
 T22S in N.
 T23S in S. and
 R26E in W. half;
 S33 in N. W.
 S34 in N. E.
 S3 in S. E. and
 S4 in S. W. quadrant; dig pits 18 x 18 x 12 ins. in each sec. $5\frac{1}{2}$ ft. dist., and raise a mound of earth 4 ft. base 2 ft. high, W. of cor.
 I destroy the old cor.
 Land, level.
 Soil, rich sandy loam, over 2 ft. deep, dry, medium texture; 1st. rate.
 No timber.

0.89 N. $89^{\circ} 52'$ W., bet. secs. 4 and 33, on true line
 Over level land, along in road.
 6.10 Cross road bears N.
 Road bears N. E. and W., thence in road
 17.40 Cross Whitewater Creek, dry, 70 lks. wide course S.
 39.82 $\frac{1}{2}$ Set an iron post 3 ft. long, 1 in. diam., 26 ins. in the ground for ^{re-established} sec. cor., marked on brass cap ¹⁹¹³ S33 in N. and S4 in S. half; dig pits 18 x 18 x 12 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.
 79.65 Set an iron post 3 ft. long, 3 ins. diam., 24 ins. in the ground for ^{re-established} cor. of secs. 4, 5, 32 and 33, marked on brass cap, 1913;
 T22S in N.
 T23S in S. and
 R26E in W. half;
 S32 in N. W.
 S33 in N. E.
 S4 in S. E. and
 S5 in S. W. quadrant; dig pits 18 x 18 x 12 ins. in each sec. $5\frac{1}{2}$ ft. dist.; and raise a mound of earth 4 ft. base 2 ft. high, W. of cor. F. Cristine house bears N. 60° W.
 Land, level.
 Soil; adobe mixed with alkali; 4th. rate.
 No timber.

Note: At this cor. I set off $25^{\circ} 25'$ N. on the decl. arc; and observe the sun on the meridian at noon; the resulting lat. is $31^{\circ} 28'$ N.

30.00 N. $89^{\circ} 52'$ W., bet. secs. 5 and 32, on true line
 Over level land along in road.
 39.82 $\frac{1}{2}$ Road leaves line and parallels it to the south
 Set an iron post 3 ft. long, 1 in. diam., 26 ins. in the ground for ^{re-established} sec. cor., marked on brass cap ¹⁹¹³ S32 in N. and S5 in S. half; dig pits 18 x 18 x 12 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.
 79.65 The old cor. of secs. 5, 6, 31 and 32, I destroy the old cor. and reestablish it in the same place as follows;
 Set an iron post 3 ft. long, 3 ins. diam., 24 ins. in the ground for cor. of secs. 5, 6, 31 and 32 marked on brass cap, 1913;
 T22S in N.
 T23S in S. and
 R26E in W. half;
 S31 in N. W.
 S32 in N. E.
 S5 in S. E. and
 S6 in S. W. quadrant; dig pits 18 x 18 x 12 ins. in each sec. $5\frac{1}{2}$ ft. dist.; and raise a mound of earth 4 ft. base 2 ft. high, W. of cor.
 Land, level.

Resurvey of the south boundary of T. 22 S. R. 26 E.

Chains.

40.07 N. 89° 52' W., bet. secs. 6 and 31, on true line
 Over nearly level land through dense brush.
 NOTE: By proportioning original dist. with dist. obtained by resurvey of this mile to locate the 1/4 sec. cor at
 Set an iron post 3 ft. long, 1 in. diam. 26 ins. in the
 ground for ^{re-established} 1/4 sec. cor., marked on brass cap ¹⁹¹³ S31 in N.
 and S6 in S. half; dig pits 18 x 18 x 12 ins. E. and W.
 of post 3 ft. dist., and raise a mound of earth 3 1/2 ft.
 base 1 1/2 ft. high, N. of cor.

80.44 The cor. of Tps. 22 and 23 S. Rgs. 25 and 26 E., reestab-
 lished by me yesterday as hereinbefore described
 Land, level.
 Soil, rich sandy loam, over 2 ft. deep, dry, medium tex-
 ture; 1st. rate. The soil in spots along this line is
 impregnated with alkali.
 No timber.
 Undergrowth, mesquite.

June 18, 1913.

Resurvey of the west boundary of T. 22 S. R. 26 E.

Chains.	June 19 ¹⁹¹³ At 7h. 00m. a.m., l.m.t., I set off $31^{\circ} 28' N.$ on the lat. arc; $23^{\circ} 27' N.$ on the decl. arc; and determine a meridian with the solar at the cor. of Tps. 22 and 23 S. Rgs. 25 and 26 E., recently reestablished by me as hereinbefore described. Thence I run, North, on a random line, bet. secs. 31 and 36.
40.00	Make careful search but am unable to find any trace of the old $\frac{1}{4}$ sec. cor., set temp. $\frac{1}{4}$ sec. cor. and continue random line North
80.00	Make careful search but am unable to find any trace of the old cor. of secs. 25, 30, 31 and 36, Set temp. point for cor.
	From above temp. cor. point, I continue North, on random line, bet. secs. 25 and 30, 30.00 chain point.
40.00	Make careful search but am unable to find any trace of the old $\frac{1}{4}$ sec. cor., set temp. $\frac{1}{4}$ sec. cor. and continue random line, North
80.00	Make careful search but am unable to find any trace of the old cor. of secs. 19, 24, 25 and 30, set temp. point for cor.
	From above temp. cor. point, I continue North, on random line, bet. secs. 19 and 24, 30.00 chain point.
40.00	Make careful search but am unable to find any trace of the old $\frac{1}{4}$ sec. cor., set temp. $\frac{1}{4}$ sec. cor. and continue random line, North
80.00	Make careful search but am unable to find any trace of the old cor. of secs. 13, 18, 19 and 24, set temp. cor. point.
	From above temp. cor. point, I continue North, on random line, bet. secs. 13 and 24, 30.00 chain point.
40.00	Make careful search but am unable to find any trace of the old $\frac{1}{4}$ sec. cor., set temp. $\frac{1}{4}$ sec. cor. and continue random line North
80.00	Make careful search but am unable to find any trace of the old cor. of secs. 7, 12, 13 and 18, set temp. point for cor.
Note:	At this point I set off $23^{\circ} 26\frac{1}{2}' N.$ on the decl. arc; and observe the sun on the meridian at noon; the resulting lat. is $31^{\circ} 31\frac{1}{2}' N.$
	From above temp. cor. point I continue North, on random line, bet. secs. 7 and 12, 30.00 chain point.
40.00	Make careful search but am unable to find any trace of the old $\frac{1}{4}$ sec. cor., set temp. $\frac{1}{4}$ sec. cor. and continue random line, North
80.00	Make careful search but am unable to find any trace of the old cor. of secs. 1, 6, 7 and 12. Set temp. point for cor.
	From above temp. cor. point I continue North, on random line, bet. secs. 1 and 6, 30.00 chain point.
42.03	Fall 102 lks. east of old $\frac{1}{4}$ sec. cor. which is a stone, marked and witnessed as described by the surveyor general, therefore true course & dist. to this cor. from the SW. cor. of T. 22 S., R. 26 E. is $N. 0^{\circ} 8' W., 442.03$ chs.
40.09	Thence from old $\frac{1}{4}$ sec. cor. I run, North, on random line Fall 13 lks. W. of the old cor. of Tps. 21 and 22 S. Rgs. 25 and 26 E. which is an iron post with brass cap and witnessed as described by the surveyor general, therefore true course & dist. to this cor. from $\frac{1}{4}$ sec. cor. bet. secs. 1 and 6, is $N. 0^{\circ} 11' E., 40.09$ chs.
	June 19, 1913.
	June 20 ¹⁹¹³ At 7h. 00m. a.m., l.m.t., I set off $31^{\circ} 28' N.$ on the lat. arc; $23^{\circ} 27\frac{1}{2}' N.$ on the decl. arc; and determine a meridian with the solar at the cor. of Tps. 22 and 23 S. Rgs. 25 and 26 E., recently reestablished by me as hereinbefore described, Thence I run, resurveying West bdy. of Tp. 22 S., R. 26 E. $N. 0^{\circ} 08' W.,$ bet. secs. 31 and 36, on true line, Over level land through dense brush.

Resurvey of the west boundary of T. 22 S. R. 26 E.

Chains.

- 40.185 Set an iron post 3 ft. long, 1 in. diam., 26 ins. in the ground for ^{reestablished} $\frac{1}{4}$ sec. cor., marked on brass cap ¹⁹¹³ $\frac{1}{4}$ S36 in W. and S31 in E. half; dig pits 18 x 18 x 12 ins. N. and S. of post 3 ft. dist., and raise a mound of earth $\frac{1}{2}$ ft. base $1\frac{1}{2}$ ft. high, W. of cor.
- 80.37 Set an iron post 3 ft. long, 3 ins. diam., 24 ins. in the ground for ^{reestablished} cor. of secs. 25, 30, 31 and 36, marked on brass cap, 1913;
 T22S in N. half;
 R25ES25 in N. W.
 R26ES30 in N. E.
 S31 in S. E. and
 S36 in S. W. quadrant; dig pits 18 x 18 x 12 ins. in each sec. $5\frac{1}{2}$ ft. dist., and raise a mound of earth 4 ft. base 2 ft. high, W. of cor.
 Land, level.
 Soil, rich sandy loam, over 2 ft. deep, dry, medium texture; 1st. rate; except first 5 chains which is rocky and gravelly; 3rd. rate.
 No timber.
 Undergrowth, mesquite and black brush.

N0° 08' W., bet. secs. 25 and 30, on true line
 Over level land, through dense brush.

- 40.185 Set an iron post 3 ft. long, 1 in. diam., 26 ins. in the ground for ^{reestablished} $\frac{1}{4}$ sec. cor., marked on brass cap ¹⁹¹³ $\frac{1}{4}$ S25 in W. and S30 in E. half; dig pits 18 x 18 x 12 ins. N. and S. of post 3 ft. dist., and raise a mound of earth $\frac{1}{2}$ ft. base $1\frac{1}{2}$ ft. high, W. of cor.
- 54.65 Cross road bears N. E. and S. W.
 74.30 Cross road bears N. E. and S. W.
- 80.37 Set an iron post 3 ft. long, 3 ins. diam., 24 ins. in the ground for ^{reestablished} cor. of secs. 19, 24, 25 and 30, marked on brass cap, 1913;
 T22S in N. half;
 R25ES24 in N. W.
 R26ES19 in N. E.
 S30 in S. E. and
 S25 in S. W. quadrant; dig pits 18 x 18 x 12 ins. in each sec. $5\frac{1}{2}$ ft. dist., and raise a mound of earth 4 ft. base 2 ft. high, W. of cor.
 Land, level.
 Soil, sandy loam mixed with gravel; dry, medium texture; 1st. rate.
 No timber.
 Undergrowth, mesquite and black brush.

N. 0° 08' W., bet. secs. 19 and 24, on true line,
 Over level land, through dense brush.

- 40.185 Set an iron post 3 ft. long, 1 in. diam., 26 ins. in the ground for ^{reestablished} $\frac{1}{4}$ sec. cor., marked on brass cap ¹⁹¹³ $\frac{1}{4}$ S24 in W. and S19 in E. half; dig pits 18 x 18 x 12 ins. N. and S. of post 3 ft. dist., and raise a mound of earth $\frac{1}{2}$ ft. base $1\frac{1}{2}$ ft. high, W. of cor.
- 80.37 Set an iron post 3 ft. long, 3 ins. diam. 24 ins. in the ground for ^{reestablished} cor. of secs. 13, 18, 19 and 24, marked on brass cap, 1913;
 T22S in N. half;
 R25ES13 in N. W.
 R26ES18 in N. E.
 S19 in S. E. and
 S24 in S. W. quadrant; dig pits 18 x 18 x 12 ins. in each sec. $5\frac{1}{2}$ ft. dist., and raise a mound of earth 4 ft. base 2 ft. high W. of cor.
 Land, level.
 Soil, rich sandy loam, over 2 ft. deep, fine texture, dry, 1st. rate.

Resurvey of the west boundary of T. 22 S. R. 26 E.

Chains.

No timber.
Undergrowth, mesquite.

Note: ~~-----~~ At this cor. I set off $25^{\circ} 27'$ N. on the decl. arc; and observe the sun on the meridian at noon; the resulting lat. is $31^{\circ} 30\frac{1}{2}'$ N.

N. $0^{\circ} 08'$ W., bet. secs. 13 and 18, on true line,
Over level land through dense brush.

40.185 Set an iron post 3 ft. long, 1 in. diam., 26 ins. in the ground for ^{reestablished} $\frac{1}{4}$ sec. cor., marked on brass cap ¹⁹¹³ S13 in W. and S18 in E. half; dig pits 18 x 18 x 12 ins. N. and S of post 3 ft. dist, and raise a mound of earth $3\frac{1}{2}$ ft. base $1\frac{1}{2}$ ft. high, W. of cor.

80.37 Set an iron post ^{reestablished} 3 ft. long, 3 ins. diam., 24 ins. in the ground for $\frac{1}{4}$ cor. of secs. 7, 12, 13 and 18, marked on brass cap, 1913;

T22S in N. half;

R25ES12 in N. W.

R26ES7 in N. E.

S18 in S. E. and

S13 in S. W. quadrant; dig pits 18 x 18 x 12 ins. in each sec. $5\frac{1}{2}$ ft. dist., and raise a mound of earth 4 ft. base 2 ft. high, W. of cor.

Land, level.

Soil; rich sandy loam, over 2 ft. deep, dry; fine texture; impregnated with alkali in spots; 1st. rate.

No timber.

Undergrowth, mesquite and black brush.

N. $0^{\circ} 08'$ W., bet. secs. 7 and 12, on true line,
Over level land, through dense brush.

40.185 Set an iron post 3 ft. long, 1 in. diam., 26 ins. in the ground for ^{reestablished} $\frac{1}{4}$ sec. cor., marked on brass cap ¹⁹¹³ S12 in W. and S7 in E. half; dig pits 18 x 18 x 12 ins. N. and S. of post 3 ft. dist., and raise a mound of earth $3\frac{1}{2}$ ft. base $1\frac{1}{2}$ ft. high, W. of cor.

80.37 Set an iron post ^{reestablished} 3 ft. long, 3 ins. diam., 24 ins. in the ground for $\frac{1}{4}$ cor. of secs. 1, 6, 7, and 12, marked on brass cap, 1913;

T22S in N. half;

R25ES1 in N. W.

R26ES6 in N. E.

S7 in S. E. and

S12 in S. W. quadrant; dig pits 18 x 18 x 12 ins. in each sec. $5\frac{1}{2}$ ft. dist., and raise a mound of earth 4 ft. base 2 ft. high, W. of cor.

Land, level.

Soil, rich sandy loam over 2 ft. deep, dry, medium texture; 1st. rate.

No timber.

Undergrowth, mesquite and black brush.

N. $0^{\circ} 08'$ W., bet. secs. 1 and 6, on true line,
Over level land, through dense brush.

40.185 Set an iron post 3 ft. long, 1 in. diam., 26 ins. in the ground for ^{reestablished} $\frac{1}{4}$ sec. cor., marked on brass cap ¹⁹¹³ S1 in W. and S6 in E. half; dig pits 18 x 18 x 12 ins. N. and S. of post 3 ft. dist, and raise a mound of earth $3\frac{1}{2}$ ft. base $1\frac{1}{2}$ ft. high, W. of cor.

This cor. is ^{re}established in the same place as the old cor. which I destroy.

Thence from $\frac{1}{4}$ Sec. cor., 1 run.

40.09 N. $0^{\circ} 11'$ E., on true line, bet. secs. 1 and 6, on $N\frac{1}{2}$ mile.
The cor. of Tps. 21 and 22 S. Rgs. 25 and 26 E., heretofore described.

Resurvey of the west boundary of Tp. 22 S. Rg. 26 E.

Chains.

Land, level.
 Soil, sandy loam, over 2 ft. deep, dry, coarse texture;
 1st. rate.
 No timber.
 Undergrowth, mesquite and black brush.

June 20, 1913.

Resurvey of the east boundary of T. 22 S. R. 26 E.

Chains.

June 21¹⁹¹³ At 7h. 00m. a.m., l.m.t., I set off $31^{\circ} 32\frac{1}{2}'$ N. on the lat. arc; $23^{\circ} 28'$ N. on the decl. arc; and determine a meridian with the solar at the cor. of Tps. 21 and 22 S. Rgs. 26 and 27 E. which is an iron post^{with brass cap} marked and witnessed as described by the surveyor general

Thence I run

South, bet. secs. 1 and 6, on random line

40.37 Fall 12 lks. W. of old $\frac{1}{4}$ sec. cor., a stake firmly set with marks nearly obliterated. No trace of pits or mound of earth. True course & dist. of this $\frac{1}{2}$ mile is therefore N. $0^{\circ} 10' W.$, 40.37 chs. Thence from ^{old} $\frac{1}{4}$ sec. cor. I run, south, on random line

40.39 Fall 31 lks. W. of old cor. of secs. 1, 6, 7 and 12, a stake firmly set, marked as described by the surveyor general, no trace of pits or mound of earth. True course & dist. of this $\frac{1}{2}$ mile is therefore N. $0^{\circ} 27' W.$, 40.39 chs.

From above cor. I continue

South, bet. secs. 7 and 12, on random line

40.94 I find the old $\frac{1}{4}$ sec. cor. stake lying on the ground 51 lks. W. of this point but no trace of pits or mound of earth, and no way to identify the original position of this cor. therefore I continue my random line, South

80.54 Fall 24 lks. E. of old cor. of secs. 7, 12, 13 and 18, a stake firmly set, marked as described by the surveyor general. No trace of pits or mound of earth. True course & dist. of this mile is therefore N. $0^{\circ} 10' E.$, 80.54 chs.

From above cor. I continue

South, bet. secs. 13 and 18, on random line,

40.34 Fall 9 lks. E. of old $\frac{1}{4}$ sec. cor. a mound of earth with deposit. No stake or pits. True course & dist. of this $\frac{1}{2}$ mile is therefore N. $0^{\circ} 08' E.$, 40.34 chs.

40.33 Thence from $\frac{1}{4}$ sec. cor. I run, South, on random line
Fall 1 lk. E. of old cor. of secs. 13, 18, 19 and 24 a stake marked as described by the surveyor general, lying on mound of earth. No trace of pits. True course & dist. of this $\frac{1}{2}$ mile is therefore N. $0^{\circ} 01' E.$, 40.33 chs.

From above cor. I continue

South, bet. secs. 19 and 24, on random line,

40.00 I make careful search but am unable to find any trace of the old $\frac{1}{4}$ sec. cor., set temp. $\frac{1}{4}$ sec. cor. and continue random line, South,

80.00 I make careful search but am unable to find any trace of the old cor. of secs. 19, 24, 25 and 30. Set temp. cor.

From above temp. cor. I continue

South, bet. secs. 25 and 30, on random line, in point.

40.00 I make careful search but am unable to find any trace of the old $\frac{1}{4}$ sec. cor., set temp. $\frac{1}{4}$ sec. cor. and continue random line, South,

80.00 I make careful search but am unable to find any trace of the old cor. of secs. 25, 30, 31 and 36. Set temp. cor.

From above temp. cor. I continue

South, bet. secs. 31 and 36, on random line, in point.

40.00 I make careful search but am unable to find any trace of the old $\frac{1}{4}$ sec. cor.

81.80 Fall 49 lks. E. of the cor. of Tps. 22 and 23 S. Rgs. 26 and 27 E. recently reestablished by me as hereinbefore described. True course and distance of line back to old cor. of secs. 13, 18, 19 and 24 is therefore N. $0^{\circ} 07' E.$, 241.80 chs.

Note: At this cor. I set off $23^{\circ} 27\frac{1}{2}'$ N. on the decl. arc; and observe the sun on the meridian at noon; the resulting lat. is $31^{\circ} 28' N.$

I commence at the cor. of Tps. 22 and 23 S. Rgs. 26 and

Resurvey of the east boundary of Tp. 22 S. Rg. 26 E.

Chains.	
	27 E., recently reestab. by means hereinbefore described
	Thence I run
	N0° 07' E., on a true line, bet. secs. 31 and 36,
	Over level land.
40.30	Set an iron post 3 ft. long, 1 in. diam., 26 ins. in the ground for ^{re-established} $\frac{1}{4}$ sec. cor., marked on brass cap ¹⁹¹³ $\frac{1}{4}$ S36 in W. and S31 in E. half; dig pits 18 x 18 x 12 ins. N. and S. of post 3 ft. dist., and raise a mound of earth $\frac{3}{8}$ ft. base base $1\frac{1}{2}$ ft. high, W. of cor.
80.60	Set an iron post ^{re-established} 3 ft. long, 3 ins. diam., 24 ins. in the ground for $\frac{1}{4}$ cor. of secs. 25, 30, 31 and 36, marked on brass cap, 1913; T22S in N. half; R26ES25 in N. W. R27ES30 in N. E. S31 in S. E. and S36 in S. W. quadrant; dig pits 18 x 18 x 12 ins. in each sec. $5\frac{1}{2}$ ft. dist, and raise a mound of earth 4 ft. base 2 ft. high, W. of cor. Land, level. Soil, rich sandy loam, over 2 ft. deep, medium texture, dry; first rate. No timber.
	N. 0° 07' E., bet. secs. 25 and 30, on true line,
	Over level land
7.30	Cross road bears N. W. and S. E.
40.30	Set an iron post 3 ft. long, 1 in. diam., 26 ins. in the ground for ^{re-established} $\frac{1}{4}$ sec. cor., marked on brass cap ¹⁹¹³ $\frac{1}{4}$ S25 in W. and S30 in E. half; dig pits 18 x 18 x 12 ins. N. and S. of post 3 ft. dist.; and raise a mound of earth $3\frac{1}{4}$ ft. base $1\frac{1}{2}$ ft. high, W. of cor.
68.45	A point from which C. F. Hasty cabin bears S. 56° 15' W.
80.60	Set an iron post ^{re-established} 3 ft. long, 3 ins. diam., 24 ins. in the ground for $\frac{1}{4}$ cor. of secs. 19, 24, 25 and 30, marked on brass cap, 1913; T22S in N. half; R26ES24 in N. W. R27ES19 in N. E. S30 in S. E. and S25 in S. W. quadrant; dig pits 18 x 18 x 12 ins. in each sec. $5\frac{1}{2}$ ft. dist., and raise a mound of earth 4 ft. base 2 ft. high, W. of cor. From this cor. C. F. Hasty cabin bears S. 15° 30' W. Land, level. Soil, rich sandy loam, over 2 ft. deep, medium texture, dry; 1st. rate No timber.
	N. 0° 07' E., bet. secs. 19 and 24, on true line,
	Over level land.
40.30	Set an iron post 3 ft. long, 3 in. diam., 26 ins. in the ground for ^{re-established} $\frac{1}{4}$ sec. cor., marked on brass cap ¹⁹¹³ $\frac{1}{4}$ S24 in W. and S19 in E. half; dig pits 18 x 18 x 12 ins. N. and S. of post 3 ft. dist., and raise a mound of earth $3\frac{1}{2}$ ft. base $1\frac{1}{2}$ ft. high, W. of cor.
80.60	Set an iron post ^{re-established} 3 ft. long, 3 ins. diam., 24 ins. in the ground for $\frac{1}{4}$ cor. of secs. 13, 18, 19 and 24, marked on brass cap, 1913; T22S in N. half; R26ES13 in N. W. R27ES18 in N. E. S19 in S. E. and S24 in S. W. quadrant; dig pits 18 x 18 x 12 ins. in each sec. $5\frac{1}{2}$ ft. dist; and raise a mound of earth 4 ft. base 2 ft. high, W. of cor. Land, level.

Resurvey of the east boundary of T. 22 S. R 26 E.

Chains.

This cor. is^{re}established in the same place as the old cor. which I destroy.
Land, level.
Soil, rich sandy loam, over 2 ft. deep, medium texture, dry; 1st. rate.
No timber.

N. 0° 01' E., bet. secs. 13 and 18, on true line,
Over level land.

40.33

The old $\frac{1}{4}$ sec. cor. which I destroy and reestablish in the same place as follows;

Set an iron post 3 ft. long, 1 in. diam., 26 ins. in the ground for $\frac{1}{4}$ sec. cor., marked on brass cap¹⁹¹³ S13 in W. and S18 in E. half; dig pits 18 x 18 x 12 ins. N and S. of post 3 ft. dist., and raise a mound of earth $3\frac{1}{2}$ ft. base $1\frac{1}{2}$ ft. high, W. of cor.

Thence from $\frac{1}{4}$ sec. cor. I run,

N. 0° 08' E., on true line, on $N\frac{1}{2}$ mile.

24.79

Cross road, bears N. W. and S. E.

25.31

Cross under telegraph line, bears N. W. and S. E.

26.94

Cross El Paso & Southwestern Ry., bears N. W. and S. E.

40.34

The old cor. of secs. 7, 12, 13 and 18, which I destroy and reestablish in the same place as follows;

Set an iron post 3 ft. long, 3 ins. diam., 24 ins. in the ground for cor. of secs. 7, 12, 13, and 18, marked on brass cap, 1913;

T22S in N. half;

R26ES12 in N. W.

R27ES7 in N. E.

S18 in S. E. and

S13 in S. W. quadrant; dig pits 18 x 18 x 12 ins. in each sec. $5\frac{1}{2}$ ft. dist.; and raise a mound of earth 4 ft. base 2 ft. high, W. of cor.

Land, level.

Soil, rich sandy loam, over 2 ft. deep, medium texture; 1st. rate.

No timber.

N. 0° 10' E., bet. secs. 7 and 12, on true line,
Over level land.

3.00

Cross road, bears N. E. and S. W.

40.27

Set an iron post 3 ft. long, 1 in. diam., 26 ins. in the ground for^{reestablished} $\frac{1}{4}$ sec. cor., marked on brass cap¹⁹¹³ S12 in W. and S7 in E. half; dig pits 18 x 18 x 12 ins. N. and S. of post 3 ft. dist.; and raise a mound of earth $3\frac{1}{2}$ ft. base $1\frac{1}{2}$ ft. high, W. of cor.

80.54

Set an iron post 3 ft. long, 3 ins. diam., 24 ins. in the ground for^{reestablished} cor. of secs. 1, 6, 7, and 12, marked on brass cap, 1913;

T22S in N. half;

R26ES1 in N. W.

R27ES6 in N. E.

S7 in S. E. and

S12 in S. W. quadrant; dig pits 18 x 18 x 12 ins. in each sec. $5\frac{1}{2}$ ft. dist.; and raise a mound of earth 4 ft. base 2 ft. high, W. of cor..

This cor. is set in the position of the old cor. which I destroy.

Land, level.

Soil, rich sandy loam over 2 ft. deep; medium texture; dry; 1st. rate.

No timber.

N. 0° 27' W., bet. secs. 1 and 6, on true line,
Over level land.

Resurvey of the east boundary of T. 22 S. R. 26 E.

Chains.

40.39

The old $\frac{1}{4}$ sec. cor. which I destroy and reestablish in the same place as follows;

Set an iron post 3 ft. long, 1 in. diam., 26 ins. in the ground for $\frac{1}{4}$ sec. cor., marked on brass cap ¹⁹¹³ S1 in W. and S6 in E. half; dig pits 18 x 18 x 12 ins. N. and S. of post 3 ft. dist., and raise a mound of earth $3\frac{1}{2}$ ft. base $1\frac{1}{2}$ ft. high, W. of cor.

Thence from $\frac{1}{4}$ sec. cor., I run

N. $0^{\circ} 10'$ W, on true line, on $N\frac{1}{2}$ mile

40.37

The cor. of Tps. 21 and 22 S. Rgs. 26 and 27 E. heretofore described.

Land, level.

Soil, rich sandy loam, over 2 ft. deep, medium texture; dry; 1st. rate.

No timber.

June 21, 1913.

Boundaries of T22S R26 E.

Lines designated.	Bearings.	Dist.	Latitudes.		Departures.	
			N	S	E	W
		Chs.	Chs.	Chs.	Chs.	Chs.
South Boundary	N 89°27'W	40.38	0.39			40.38
	N 89°43'W	121.95	0.60			121.95
	N 89°39'W	80.86	0.49			80.86
	N 89°52'W	239.74	0.55			239.74
West Boundary	N 0°08'W	443.03	443.03			1.03
	N 0°11'E	40.09	40.09		0.13	
North Boundary	N 89°50'E	40.43	0.12		40.43	
	N 89°48'E	120.66	0.42		120.66	
	S 39°33'E	40.70		0.26	40.70	
	N 89°55'E	40.26	0.06		40.26	
	N 89°54'E	80.50	0.14		80.50	
	N 89°56'E	80.64	0.09		80.64	
East Boundary	East	80.53	0.00		80.53	
	S 0°10'E	40.37		40.37	0.13	
	S 0°27'E	40.39		40.39	0.31	
	S 0°10'W	80.54		80.54		0.33
	S 0°08'W	40.34		40.34		0.09
	S 0°01'W	40.33		40.33		0.01
Convergency	S 0°07'W	241.80		241.80		0.49
		101.00		101.00		0.00
Totals			484.98	484.03	484.71	484.78
			484.03			484.71
	Error in lat.		0.95	Error in dep.		0.07

General Description.

This township is level. The drainage is to the south. The eastern half of this township is open while the western half is covered with a dense growth of brush. The soil is rich and very productive.

John F. Neese
U.S. Surveyor.

CERTIFICATE OF ASSISTANTS.

We, the undersigned, hereby certify upon honor that we assisted, to the best of our skill and ability,
 John F. Hesse , U. S. Surveyor, during the periods and in the capacities
 stated opposite our several signatures, in ^{re} surveying all those parts or portions of the South,
 East and West Boundaries of Tp. 22 S. Rg. 26 E.

of the Gila and Salt River Base and Meridian, in the State of Arizona.
 which are represented in the foregoing field notes as having been executed by him, and under his direc-
 tion; and that said ^{re} survey has been, in all respects, to the best of our knowledge and belief, well and
 faithfully executed.

NAME.	PERIOD OF SERVICE.		CAPACITY.
	BEGUN.	ENDED.	
Frank J. McSherry	May 2, 1913	June 20, 1913	Coverman
W. H. Huddy	June 21, 1913	July 12, 1913	Coverman
G. E. Lang	April 1, 1913	July 14, 1913	Chairman
C. C. Kestey	March 19, 1913	July 16, 1913	Chairman
J. S. Hughes	February 9, 1913	July 16, 1913	Flagman
C. T. Robinson	June 7, 1913	July 16, 1913	Arman

Subscribed and certified to before me on the dates of the final service as shown above.

John F. Hesse
 U. S. Surveyor.

FINAL OATH OF UNITED STATES SURVEYOR.

I, John F. Hesse, U. S. Surveyor, do solemnly swear that, in pursuance of special instructions received from the U. S. Surveyor General for Arizona, for Group 18 bearing date of the 3rd day of April, 1913, I have well, faithfully, and truly, in my own proper person, and in strict conformity with said instructions, the Manual of Surveying Instructions, and the laws of the United States, ^{re-}surveyed all those parts or portions of the South, East and West Boundaries of Tp. 22 S. Rg. 26 E.

of the Gila and Salt River Base and Meridian, in the State of Arizona, 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 ^{re-}survey have been ^{re-}established and perpetuated in strict accordance with the Manual of Surveying Instructions, and the special written instructions of the U. S. Surveyor General for Arizona and in the specific manner described in the field notes, and that the foregoing are the original field notes of such ^{re-}survey.

John F. Hesse
U. S. Surveyor.

Subscribed by said John F. Hesse, and sworn to before me }
this 31st day of January, 1914



Frank S. Ingalls
Surveyor General of Arizona

APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR, GENERAL,

Phoenix, Arizona, July 21, 1914

The foregoing field notes of the ^{re-}survey of the South, East and West boundaries of Township N° 22 South, Range N° 26 East of the Gila and Salt River Base and Meridian, Arizona

executed by John F. Hesse, U. S. Surveyor under his special instructions dated April 3rd, 1913, having been critically examined, and the necessary corrections and explanations made, the said field notes, and the ^{re-}surveys they describe, are hereby approved.

Frank S. Ingalls
U. S. 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.