

2720

4-679

2720

161

Book " A "

BOOK 2720

SEP 2 1914

Resurvey Exteriors

FIELD NOTES

BOOK 2720

OF THE RESURVEY OF THE

EXTERIOR BOUNDARIES OF

TOWNSHIPS 11 and 12 SOUTH--RANGES 23 and 24 EAST

" 13 " 14 " -- " 24 " 25 "

TOWNSHIP 16 SOUTH--RANGE 25 EAST

WEST and Frac. NORTH Bdrs. of Tp. 10 S., R. 22 E. and

Bdrs. of WILLCOX TOWNSITE in Ts. 13 & 14 S., R. 25 E.

and

EAST and North Half of WEST Bdy. of T. 15 S., R. 24 E.

Of the Gila and Salt River Base and Meridian,

In the State of Arizona

EXECUTED BY

Thos. B. Matthews,

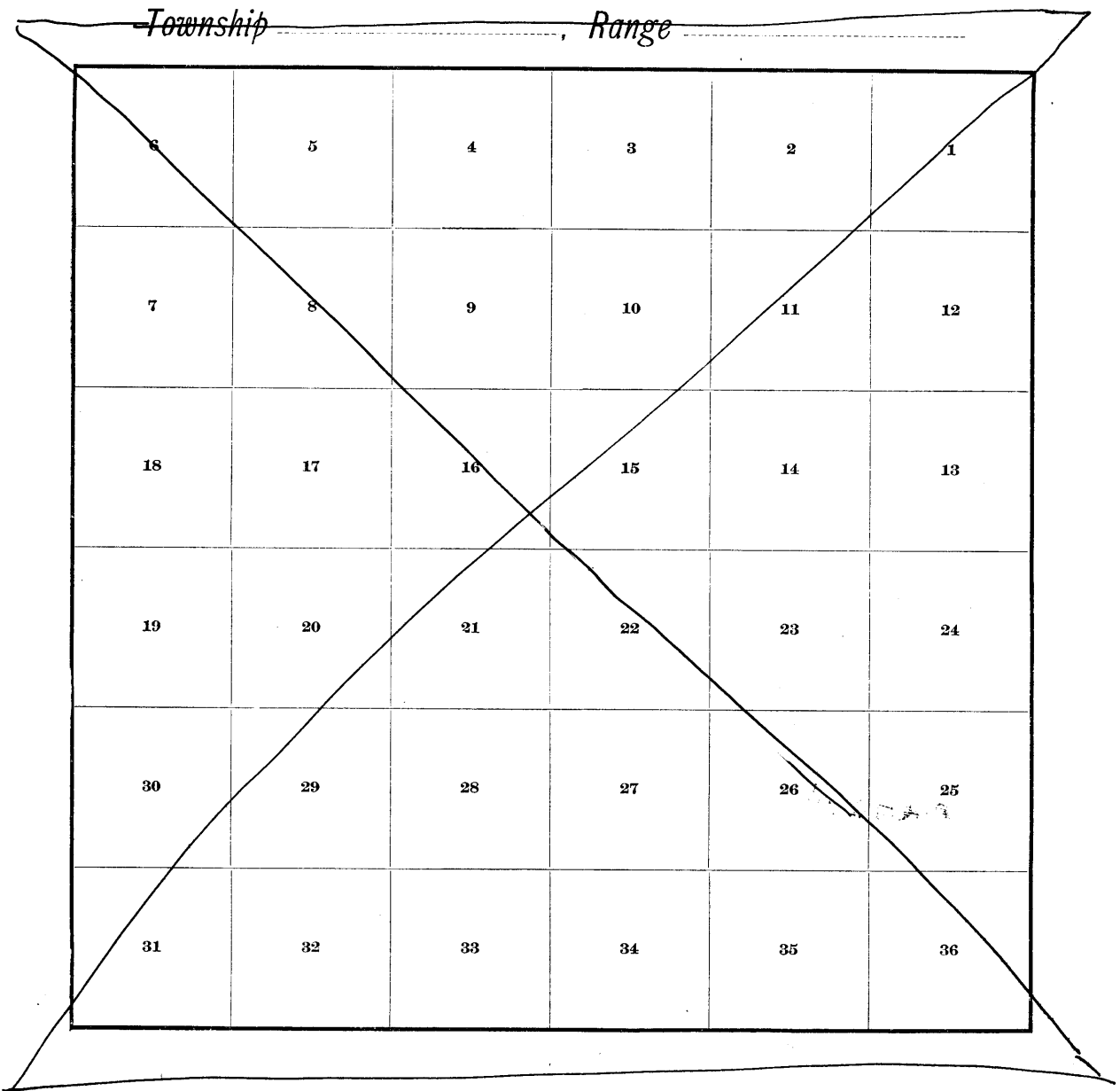
In the capacity of U. S. Surveyor, under instructions dated April 21 and May 7, 1913, issued by the United States Surveyor General to govern surveys included in Group No. 25, which were approved by the Commissioner of the General Land Office, May 2 and May 15, 1913, pursuant to authority contained in the Act of Congress dated August 24, 1912 and June 23, 1913

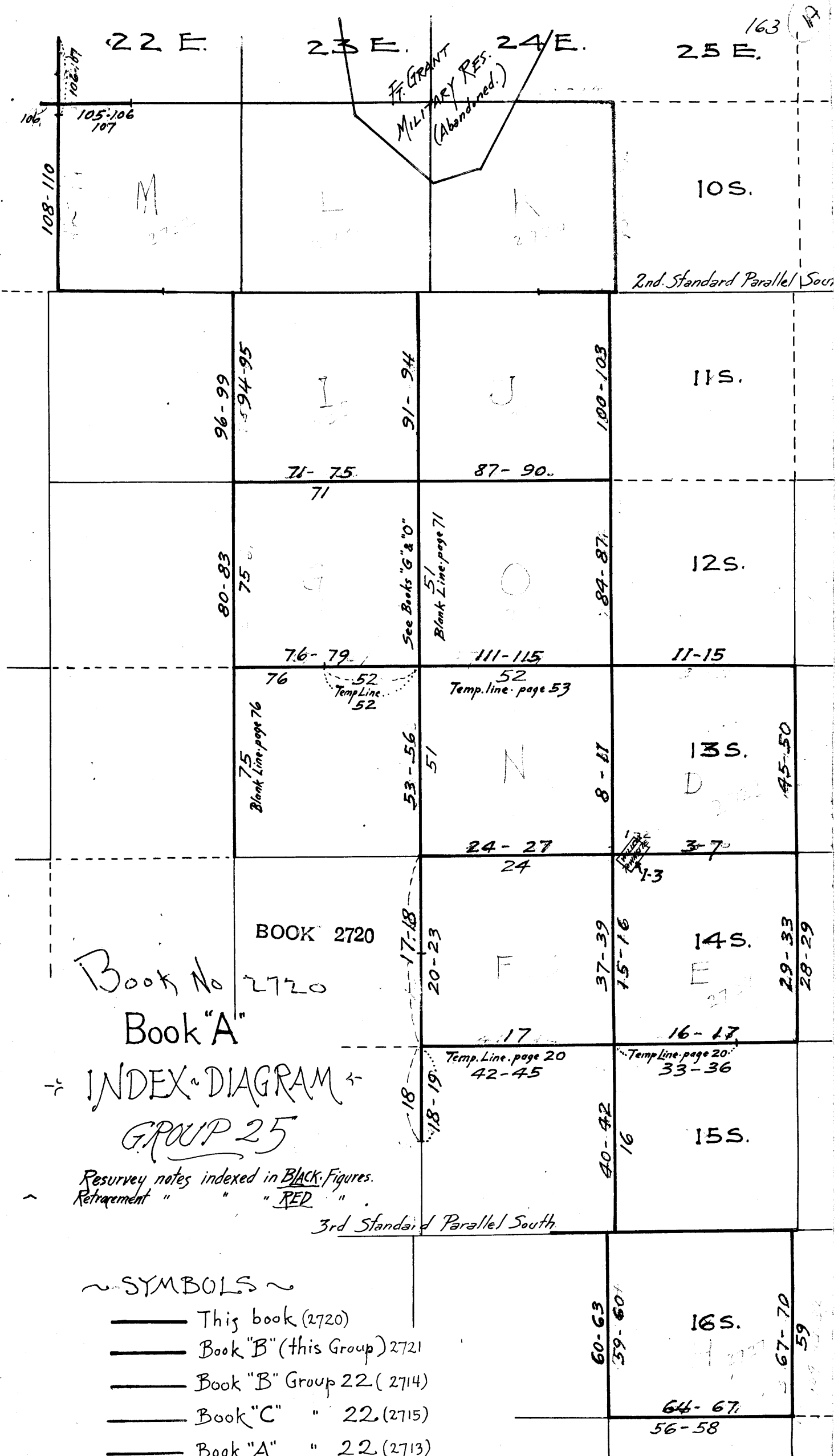
Re Survey commenced May 4, 1913

Re Survey completed January 25, 1914

INDEX DIAGRAM.

(see Special Index)





Book No 2720
Book "A"

INDEX-DIAGRAM
GROUP 25

Resurvey notes indexed in BACK Figures.
Retirement " " " RED "

~SYMBOLS~

- This book (2720)
- Book "B" (this Group) 2721
- Book "B" Group 22 (2714)
- Book "C" " 22 (2715)
- Book "A" " 22 (2713)
- Accepted Surveys.
- - - - - Unsurveyed.

Book "C" Group 25 (2722)

Retracement and Resurvey of Township Boundaries Group 25. 1.

Chains.

Resurvey commenced May 4th, 1913, and executed by Thomas B. Matthews, U. S. Surveyor, with Young and Sons' light mountain transit, No. 8480, with solar attachment. The horizontal limb is 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 for the latitude and declination arcs. This instrument was approved by the Supervisor of Surveys, Jan. 30, 1913. I examine the adjustments of the transit and find them to be 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 mer. determined by observation on Polaris, I proceed as follows:

At my camp, which is located near the point for the $\frac{1}{4}$ sec. cor., bet. secs. 6 and 31, Ts. 13 and 14 S., R. 25 E.; lat. $32^{\circ} 14' 52''$ N.; long. $109^{\circ} 49' 29''$ W., I set off $32^{\circ} 15'$ N. on lat. arc; $16^{\circ} 01\frac{1}{2}'$ N. on decl. arc, and at 4h. 0m. p. m., l.m.t., and determine a meridian with the solar, marking a point on same by driving tack in stake firmly set in ground 5 chs. north of my station.

May 4th, 1913.

May 5th, 1913: At 4h. 40m. a.m., l.m.t., I observe Polaris at eastern elongation, in accordance with the Manual of Instructions, and mark a point on the line thus determined by driving a stake in the ground, 5 chs. north of my station.

At 7h. 0m. a.m., l.m.t., I lay off the azimuth of Polaris $1^{\circ} 22'$ to the west; the meridian thus determined intersects the point on the stake set in ground May 4th.

At 7h. 30m. a.m., l.m.t., I set off $32^{\circ} 15'$ N. on the lat. arc; $16^{\circ} 12\frac{1}{2}'$ N. on decl. arc; the meridian thus determined with the solar apparatus intersects the point on stake set May 4th, 1913.

The solar apparatus by both p.m. and a.m. observations defining position of meridian agreeing with that determined from observation on Polaris, I conclude that the adjustments of the instrument are satisfactory.

The magnetic bearing of the true meridian at 8h. 0m. is N. $12^{\circ} 50'$ W., the angle thus determined gives the magnetic decl. $12^{\circ} 50'$ E.

RESURVEY OF BOUNDARIES OF WILCOX TOWNSITE.

Preliminary to resurveying the south bdy. of Tp. 13 S., R. 25 E., I proceed to reestablish the boundaries of the Townsite of Wilcox, as follows:

From the original SW. cor. of the Wilcox Townsite in sec. 6 of T. 14 S., R. 25 E., which is marked by the decayed remains of old Redwood post, which has been broken off at surface of ground, to perpetuate which I destroy all trace of old cor., and reestablish it in the same place as follows:

Set an iron post 3 ft. long, 1 in. in diam., 32 ins. in ground, with a brass cap, marked,
 T 14 S R 25 E in N.,
 Wilcox T S in NE., and
 S 6, 1913 in S. half; the SE. cor. being plainly visible, I run,
 S. $60^{\circ} 08'$ E., for said cor., along south bdy. of Townsite.

2.75
 12.75
 25.00
 25.70
 28.25

Wagon road brs. N. 30° E., S. 30° W.
 Wagon road brs. N. 30° E., S. 30° W.
 Southern Pacific R. R. track, brs. N. 30° E., S. 30° W.
 Telegraph line, bears N. 30° E., S. 30° W.
 Intersect cor. of wire fence, brs. S. 30° W., S. 60° E.

2. Resurvey of Boundaries of Willcox Townsite.

Chains	
	Thence along fence line.
33.00	Tom Fulgium's house, brs. S.30°W., 3 chs.dist.
34.00	Wire fence, brs.S.30°W.
49.00	Leave wire fence, brs.S.45°E., N.60° W.
50.01	The original SE. cor. of Willcox Townsite, which is decayed remains of old redwood post, to perpetuate which I destroy all trace of old cor., and reestablish it in the same place, as follows: Set an iron post 3 ft.long, 1 in. in diam., 32 ins. in ground, with a brass cap, marked, T 14 S R 25 E in N., Willcox T S in NW., and S 6 1913 in S.half.

	Thence I run, N. 29°52' E. at right angle to S.bdy., on random line, along east bdy.of Townsite.
64.00	Make diligent search for original NE. cor. of Willcox Townsite, but am unable to find any trace of same.
	Thence I run, N.60° 08' W., on random line along north bdy.of townsite.
50.00	Intersect original NW. cor. of Willcox Townsite, in sec. 31, of T.13 S., R.25 E., which is decayed remains of pine post, broken off at surface of ground, to perpetuate which I destroy all trace of old corner, and reestablish it in the same place as follows: Set an iron post 3 ft.long, 1 in. in diam., 30 ins. in ground, with a brass cap, marked, T 13 S R 25 E in N., Willcox T S in SE., and S 31, 1913 in S.half.
	Thence I run, S.60°08'E., on true line, along north bdy. of Willcox Townsite.
1.00	Wagon road brs.E and W.
9.50	Cor.of wire fence brs.N.and S.60°E.
	Thence along said fence.
21.00	Leave wire fence, cor.of railroad stock yards, brs.S.30°W., 20 lks.dist.
	Thence parallel to stock yards.
24.00	R. R. side track, brs.N.30° E., S.30° W. From this point, NE. cor. R.R.stock yards, brs.S.45° W., 25 lks.dist.
25.00	Southern Pacific R.R. brs.N.30°E., S.30°W.
25.70	Telegraph line, brs.N.30°E., S.30°W.
26.50	Wire fence parallel to R.R.
28.00	Wagon road brs.N.30°E., S.30°W.
42.70	Wire fence brs.N.30°E., 3 chs.dist., and S.30°W. 4 chs. dist.
	Enter cemetery, thence through cemetery.
49.00	Wire fence, brs.N.30°E. 3 chs.dist., and S.30°W., 4 chs. dist.
	Leave cemetery, enter cultivated field.
50.00	Set an iron post, 3 ft.long, 1 in. in diam., 30 ins. in ground, for reestablished NE. cor.of Willcox Townsite, with a brass cap, marked, T 13 S R 25 E in N., Willcox T S in SW., and S 32,1913 in S.half.
	Thence I run, S.29°52'W. on true line, along east bdy. of Willcox Townsite, through cultivated field.
17.50	Wire fence, bear E and W. Cor.of field brs.W.1 ch.
	Thence through small garden,.
18.00	Wire fence brs.E. and W.; cor.of garden brs.west 1 ch. Leave garden, thence over level prairie land.
20.00	Dry wash, 20 lks.wide, 3 ft. deep, course SE. Wagon road crosses wash on line.

Resurvey of boundaries of Willcox Townsite.

3.

Chaind.

- 37.40 Wagon road entering Willcox, brs.N.30°W., S.30°E.
- 37.65 Phone line hrs.N.30°W., S.30°E.
- 43.70 Phone line brs.N.30°E., S.30°W.
- 44.70 Wagon road brs.N.30°W., S.30°E.
- 64.00 SE.cor.of Willcox Townsite, hereinbefore described.

At the NW. cor. of Willcox Townsite, hereinbefore described, I set off 16° 15' N. on decl. arc; and at 11h. 56m. 38s. a.m., l.m.t., observe the sun on the meridian, and obtain a reading of 32° 15½' on lat. arc.

From this cor., the SW. cor. of Willcox Townsite being plainly visible, I run,

S. 29° 52' W. on west bdy. of Willcox Townsite.

- 16.00 Wagon road, brs. E and W.
 - 18.25 Wagon road, brs. E and W.
 - 39.00 Wagon road brs. E. and W.
 - 47.50 Wagon road brs.N.60°W., S.60°E.
 - 54.00 Wagon road brs.E.and W.
 - 59.50 Wagon road brs.E.and W.
 - 64.01 The SW. cor. of Willcox Townsite, hereinbefore described.
- J. W. Angle's residence, brs.W. 150 lks. from this cor.
May 5th, 1913.

Resurvey of South bdy. of Township 13 South, Range 25 E.

May 6th, 1913: At 8h. 30m. a.m., l.m. t., I set off 16° 30' N. on decl. arc; 32° 15' N. on lat. arc, and determine a meridian with the solar at the original cor. of Ts. 13 and 14 S., Rs. 25 and 26 E., which is a granite stone 8x10x5 ins. above ground, firmly set, marked and witnessed as described by the Surveyor General.

Thence I run,

West, on random line, along south bdy. of T. 13 S., R. 25 E., making diligent search for the original ¼ sec. and sec. cors. at intervals of 40 chs., which I fail to find until at 160.88 chs. I fall 47 lks. S. of point for original cor. of secs. 2, 3, 34 and 35 which I locate N. 45° W., 5½ ft. dist., from redwood stake in SE. pit, marked as described by Surveyor General. I destroy all trace of this old cor., and reestablish it by setting an iron post 3 ft. long, 3 ins. in diam., 24 ins. in ground, with a brass cap, marked,

- T 13 S in N.,
- T 14 S 1913 in S. and
- R 25 E in W. half;
- S 34 in NW.,
- S 35 in NE.,
- S 2 in SE., and
- S 3 in SW. quadrants;

dig pits 18x18x12 ins., in each sec. 5½ ft. dist., and raise mound of earth 4 ft. base, 2 ft. high, west of cor.

Thence I run,

S. 89° 50' E., on true line, bet. secs. 2 and 35.

Over slightly rolling sandy land, 50 lks. N. and parallel to wire fence.

- 19.40 Wire fence brs. N. and S.
- Thence 50 lks. S. and parallel to wire fence, over slightly rolling sandy land, through mesquite brush, 4 to 8 ft. high.
- 40.00 Wire fence, brs. N. and S., cors. 30 lks. north.
- 40.22 (Proportional distance) Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in the ground for reestablished ¼ sec. cor., with a brass cap, marked,
- ¼ S 35 in N., and
- S 2, 1913 in S. half;

4. Resurvey of South boundary of Township 13 S., R. 25 E.

Chains.

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

79.00 Wagon road brs. N. and S.
80.00 Wire fence brs. N. 15° W., S. 15° E
Fence cor. brs. N. 15 lks.
80.44 (Proportional dist.) Set an iron post 3 ft. long, 3 ins. in diam., 24 ins. in ground, for reestablished cor. of secs. 1, 2, 35 and 36, with a brass cap, marked,
T 13 S in N.,
T 14 S 1913 in S. half; & R. 25 E. in W. half;
S 35 in NW.,
S 36 in NE.,
S 1 in SE., and
S 2 in SW. quadrant; dig pits 18x18x12 ins. in each sec. $5\frac{1}{2}$ ft. dist., and raise mound of earth 4 ft. base, 2 ft. high, west of cor.
Loose, sandy soil, 24 ins. deep.
Very little grass. mesquite brush, 4 to 8 ft.; no timber.
Note: Wagon road runs along this line.

Thence I run,
S. $89^\circ 50'$ E., on true line, bet. secs. 1 and 36, over level land, through mesquite 6 to 10 ft. high, 50 lks. north and parallel to wire fence.

.50 H. Martin's house, brs. S. 32° E.
12.50 H. Martin's house, brs. S. 47° W.
20.50 Cor. of wire fence, brs. S. 50 lks.; from this fence cor., fence runs south and west.
Note: Road along this line turns south at this point.
40.22 (Proportional distance) Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in the ground for reestab. $\frac{1}{4}$ sec. cor., with a brass cap, marked,
 $\frac{1}{4}$ S 36 in N., and
S 1 1913 in S. half;
dig pits 18x18x12 ins., E and W. of post 3 ft. dist., and raise mound of earth $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high, N. of cor.

80.44 Thence through scattering mesquite, 6 to 8 ft. high.
The original cor. of Ts. 13 and 14 S., Rs. 25 and 26 E., hereinbefore described.
Land, level.
Soil, light, sandy loam, 24 ins. deep.
Scattering grama-grass and mesquite; no timber.

At the reestablished cor. of secs. 2, 3, 34 and 35, hereinbefore described, I set off $16^\circ 32'$ N. on decl. arc; and at 11h. 56m. 33s., a.m., l.m.t., I observe the sun on the meridian, and obtain a reading of $32^\circ 15'$ on lat. arc.

The point for the original $\frac{1}{4}$ sec. cor. bet. secs. 3 and 34, being plainly visible, I run,
N. $89^\circ 54'$ W. on true line, bet. secs. 3 and 34.
.50 Cor. of wire fence, brs. S. 50 lks.
Thence parallel to fence, over level alkali land.
35.00 Begin ascent of sand ridge, 12 ft. high.
37.00 Top of ridge.
40.16 Intersect point for original $\frac{1}{4}$ sec. cor., which I locate $5\frac{1}{2}$ ft. west of redwood stake in east pit, marked as described by Surveyor General. I destroy all trace of this old cor., and reestablish it as follows:
Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in ground, with a brass cap, marked,
 $\frac{1}{4}$ S 34 on N., and
S 3, 1913 on S. half;
dig pits 18x18x12 ins., E and W. of post, 3 ft. dist.,

Resurvey of South boundary of Township 13 South, Range 25 E. 5.

Chains.

and raise mound of earth 3 1/2 ft. base, 1 1/2 ft. high, N. of cor.
From 0 to 35 chs., light alkali land, 1 ft. deep, underlaid with hardpan.
From 35 to 40 chs., sand ridge.
Short salt grass; no timber.

.17
40.00

From the above described 1/4 sec. cor., point for original cor. of secs. 3, 4, 33 and 34 being plainly visible, I run on true line, S. 89° 48' W., bet. secs. 3 and 34, on west 1/2 mile. Over rolling, sandy land. Through sage brush, 1 to 2 ft. high, and scattering yuccas. Cor. of wire fence, brs. S. 50 lks.
From this fence cor., fences run S. and E.
Intersect point for original cor. of secs. 3, 4, 33 and 34, which I locate 5 1/2 ft. N. 45° W. of redwood stake in SE. pit, marked as described by Surveyor General. I destroy all trace of this old cor., and reestablish it by setting an iron post 3 ft. long, 3 ins. in diam., 24 ins. in ground, with a brass cap, marked,
T 13 S in N.,
T 14 S 1913 in S., and
R 25 E in W. half;
S 33 in NW.,
S 34 in NE.,
S 3 in SE., and
S 4 in SW. quadrant;
dig pits 18x18x12 ins., in each sec. 5 1/2 ft. dist., and raise mound of earth 4 ft. base, 2 ft. high, west of cor.
Loose, sandy soil, fine texture, 24 ins. deep.
Scattering sage brush, 1 to 3 ft. high; yuccas, 4 to 6 ft. high.
No timber.
Note: Wagon road runs along this line for entire mile.

5.50
18.00
25.00
29.00
40.06

The point for original 1/4 sec. cor. bet. secs. 4 and 33, being plainly visible, I run, N. 89° 57' W., on true line, bet. secs. 4 and 33. Over rolling, sandy land, through sage brush, 1 to 3 ft. high and scattering yuccas, 4 to 6 ft. high.
Wagon road, brs. N. 80° W., S. 80° E.
Enter dry lake bed, banks 8 ft. high, brs. N. and S.
Road brs. N. 80° W., S. 80° E.
Leave dry bed of lake, brs. N. and S.
Thence over rolling, sandy land.
Intersect point for original 1/4 sec. cor., which I locate 5 1/2 ft. west of redwood stake in E. pit, marked as described by Surveyor General. I destroy all trace of this old cor., 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, with a brass cap, marked,
1/4 S 33 on N.,
S 4, 1913 on S. half;
dig pits 18x18x12 ins., E. and W. of post, 3 ft. dist., and raise mound of earth 3 1/2 ft. base, 1 1/2 ft. high, N. of cor.
From 0 to 18 chs., loose, sandy soil; no grass. Sage brush, 1 to 3 ft. high; scattering yuccas, 4 to 6 ft. high. 18 to 29 chs., barren alkali lake bed, very level. 29 to 40 chs., windbuilt sand ridges, covered with scattering of sage brush and yuccas.

6. Resurvey of South boundary of Township 13 S., R. 25 E.

Chains.

- 40.00 Thence I run,
West, on random line, bet. secs. 4 and 33 on west half mile.
Make search for original $\frac{1}{4}$ sec. cor., but no trace of same could be found; therefore, I continue my random line west, making diligent search at intervals of 40 chs. for evidence of original $\frac{1}{4}$ sec. and sec. cors., but fail to find any until at 197.95 chs. fall 6 lks. north of cor. to Ts. 13 and 14 S., Rs. 24 and 25 E., which is an iron stake driven flush with surface of ground, which Mr. H. A. Morgan of Willcox, Arizona, and Mr. Rockfellow, former county surveyor of Tombstone, Arizona, stake has been recognized and used as marking the cor. point for a period of 28 years, to their own personal knowledge. I destroy all trace of this old cor., 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, with a brass cap, marked,
T 13 S in N.,
R 24 E in W.,
T 14 S 1913 in S., and
R 25 E in E. half;
S 36 in NW.,
S 31 in NE.,
S 6 in SE.,
S 1 in SW. quadrants;
dig pits 24x24x12 ins. on each line, N., E. and W., 4 ft., and south of post 8 ft. dist., and raise a mound of earth 5 ft. base, 2 $\frac{1}{2}$ ft. high, south of cor.
- 18.00 Thence I run,
N. 89°59' E. on true line, bet. secs. 6 and 31.
Over level prairie land.
25.35 Wagon road, brs. N. 80° E., S. 80° W.
Intersect west bdy. of Willcox Townsite, 16.02 chs. N. 29° 52' E. of SW. cor. of townsite, reestablished by me, as hereinbefore described.
At point of intersection, I set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in the ground, for reestablished closing cor. of secs. 6 and 31, marked,
T 13 S S 31 in N.,
R 25 E in W.,
S 6, T 14 S, 1913 in S.,
WILCOX T S in E. half; and
C C W of center;
dig pits 24x18x12 ins. on each line, N. and S. 3 ft., and west of post 7 ft. dist., and raise a mound of earth 4 ft. base, 2 ft. high, west of cor.
- 37.63 Thence continue measurement N. 89° 59' E., through Willcox Townsite on blank line.
(Proportional Distance). Point for $\frac{1}{4}$ sec. cor falls in Townsite.
- 77.71 (Proportional Distance). Point for cor. of secs. 5, 6, 31 and 32, falls in townsite.

- 5.40 Thence I run,
N. 89°59' E., on blank line, bet. secs. 5 and 32, through Willcox Townsite.
Intersect east bdy. of Willcox Townsite, 19.12 chs. S. 29° 52' W. of the NE. cor. of townsite, reestablished by me, as hereinbefore described.
At point of intersection, I set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in the ground for reestablished closing cor. of secs. 5 and 32, with a brass cap, marked,
T 13 S S 32 in N.,
Willcox T S in W., and
T 14 S S 5 1913 in S. half; and
C C E of center;
dig pits 24x18x12 ins., crosswise on each line N. and S.

Resurvey of South bdy. of Township 13 South, Range 25 East. 7.

Chains.

3 ft., and E of post 7 ft. dist., and raise a mound of earth 4 ft. base, 2 ft. high, east of cor.
 Thence I continue measurement, N. 89° 59' E., bet. secs. 5 and 32, on true line.

6.00 Wagon road, brs. S. 80° W., N. 80° E.
 8.00 House brs. N. 2 chs. dist.
 Thence parallel to and 50 lks. south of wire fence.

20.00 Cor. of wire fence, brs. N. 30 lks.; from this fence cor., fence lines run north and west.

40.08 (Proportional distance). Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in the ground, for reestablished $\frac{1}{4}$ sec. cor., with a brass cap, marked,
 $\frac{1}{4}$ S 32 in N.,
 S 5, 1913 in S. 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.
 At this cor., I enter loose, sandy land; thence I continue over windbuilt sand ridges, through scattering sage brush, 1 to 2 ft. high.

60.00 NW cor. of wire fence, brs. S. 50 lks.
 Thence parallel to and north of fence.

61.00 Jelly's house, brs. south 5 chs. dist.
 79.66 NE cor. of wire fence, brs. S. 50 lks.
 80.16 (Proportional distance). Set an iron post 3 ft. long, 3 ins. in diam., 24 ins. in the ground, for reestablished cor. of secs. 4, 5, 32 and 33, with a brass cap, marked,
 T 13 S in N.,
 R 25 E in W., and
 T 14 S, 1913 in S. half;
 S 32 in NW.,
 S 33 in NE.,
 S 4 in SE., and
 S 5 in SW. quadrants;
 dig pits 18x18x12 ins., in each sec. $5\frac{1}{2}$ ft. dist., and raise mound of earth 4 ft. base, 2 ft. high, west of cor.
 West half of mile level, light, sandy soil, 2 ft. deep on hardpan subsoil; short salt grass. No timber.
 East half of mile loose, blow sand, fine texture, lying in windbuilt ridges; scattering sage brush 1 to 2 ft. high.
 No timber.

Thence I run,
 N. 89° 59' E. on a true line, on west half between secs. 4 and 33.
 Over rolling, sand ridges, through sage brush, 2 to 3 ft. high, and scattering yuccas.

4.00 Wagon road, brs. N. 60° E., S. 60° W.
 40.08 Intersect reestablished $\frac{1}{4}$ sec. cor., between secs. 4 and 33, hereinbefore described.
 Soil, loose, blow sand, fine texture.
 Undergrowth, scattering sage brush and yucca.
 No timber.

May 6th, 1913.

8. Resurvey of West bdy. of Township 13 South, Range 25 E.

Chains.

May 7th, 1913: At 8h.0m. a.m., l.m.t., I set off $16^{\circ} 46\frac{1}{2}'$ N. on decl. arc; $32^{\circ} 15'$ on lat. arc, and determine a meridian with the solar at the cor. of Tps. 13 and 14 S., Rs. 24 and 25 E., reestablished by me, as hereinbefore described.

Thence I retrace on West bdy. of T. 13 S., R. 25 E., North on random line, bet. secs. 31 and 36. At 40 chs. I make diligent search for original $\frac{1}{4}$ sec. cor., which I fail to find, and at 80 chs., I make diligent search for the original cor. of secs. 25, 30, 31 and 36, which I also fail to find. Therefore, I continue my random line north, making diligent search at each 40 chs. for evidence of original $\frac{1}{4}$ sec. and sec. cors., but fail to find any trace of same until at 478.62 chs., I fall 265 lks. E. of original cor. of Tps. 12 and 13 S., Rs. 24 and 25 E., which is charred stake deposited in earth, mound and pits obliterated. I destroy all trace of this old cor., 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, with a brass cap, marked,

T 12 S in N.,
R 25 E in E.,
T 13 S 1913 in S., and
R 24 E in W. half;
S 36 in NW.,
S 31 in NE.,
S 6 in SE., and
S 1 in SW. quadrant;

dig pits $24 \times 24 \times 12$ ins. on each line, E., W. and N., 4 ft., and S. of post 8 ft. dist.; and raise mound of earth 5 ft. base, $2\frac{1}{2}$ ft. high, south of cor.

Thence I run,

$S. 0^{\circ} 39' E.$, on true line, bet. secs. 11 and 6.

Descending very gentle S. slope, through mesquite brush, 4 to 7 ft. high.

.30 Wire fence brs. E. and W.; fence cors. 5 lks. east.

10.00 Wire fence brs. N. and S.

24.00 Adobe house, brs. E. 6 chs.

39.56 (Proportional dist.) Set an iron post 3 ft. long, 1 in. in diam. 26 ins. in ground, for reestablished $\frac{1}{4}$ sec. cor., with a brass cap. marked,

$\frac{1}{4}$ S 1 in W.,
S 6 in E., and
1913 in S. half;

dig pits $18 \times 18 \times 12$ ins., N. and S. of post, 3 ft. dist., and raise mound of earth $4\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high, W. of cor.

I later add markings to this cor. for NE. (No. 1) cor. of Tract No. 37 of T. 13 S., R. 24 E., as described in notes of said Tract in Book "N."

45.20 Dry wash, 10 lks. wide, 2 ft. deep, course $S. 60^{\circ} W.$

47.00 Dry wash, 10 lks. wide, 1 ft. deep, course $S. 60^{\circ} W.$

69.00 Mrs. Wallace's house, brs. west 2 chs., and Dr. Gothard's house, brs. E. $2\frac{1}{2}$ chs. from this point I continue south, through lane.

77.50 Intersect N. line of E. and W. lane. Fence cors. bear E. 70 lks. dist. and W. 20 lks.

78.00 Intersect S. line of E. and W. lane.

79.47 (Proportional distance). Set an iron post 3 ft. long, 3 ins. in diam., 24 ins. in the ground for the reestablished cor. of secs. 6 and 7, T. 13 S., R. 25 E., with a brass cap, marked,

T 13 S in N.,
S 6, S 7 R 25 E in E. half; and
1913 in S. half,
S 1 in NW., and
S 12, R 24 E in SW. quadrant;

dig pits $24 \times 24 \times 12$ ins. in each sec. 6 ft. dist., and raise mound of earth 4 ft. base, 2 ft. high, east of cor.

Soil, red, sand loam, some gravel, coarse texture, 24 ins. deep.

Chains.

Very little grass. Mesquite 3 to 7 ft. high,
No timber.

At the above described cor., I set off $16^{\text{m}}49'$ N. on decl. arc;
and at 11h.56m.28secs. a.m., l.m.t., I observe the sun
on the meridian, and obtain a reading of $32^{\circ} 19'$ on
lat. arc.

Thence I run,

S. $0^{\circ} 15'$ E., on true line, along west bdy. of sec. 7.
Descending very gentle south slope, through lane.

1.50

Cor. of wire fence, brs. west 15 lks.

37.00

Cor. of wire fence, brs. west 10 lks.

39.915

(Proportional distance.) Set an iron post 3 ft. long, 1
in. in diam., 26 ins. in the ground for reestablished
 $\frac{1}{4}$ sec. cor., with a brass cap, marked,

$\frac{1}{4}$ on W.,

S 7 on E., and

1913 on S. half;

dig pits $18 \times 18 \times 12$ 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, west
of cor.

77.53

Intersect SE. cor. of fence, the same being the NW. cor. of
crossing of E. and W., and N. and S. lanes.

79.53

Wire fence, brs. E. and W., cornering 1 lk. east of line. of
Thence parallel to fence.

79.83

(Proportional distance.) Set an iron post 3 ft. long, 3 ins.
in diam., 24 ins. in the ground, for reestablished cor.
of secs. 7 and 18, T. 13 S., R. 25 E., with a brass cap,
marked,

T 13 S in N.,

S 7, S 18, R 25 E in E., and

1913 in S. half;

S 12 in NW., and

S 13, R 24 E in SW. quadrant;

dig pits $24 \times 24 \times 12$ ins. in each sec. 6 ft. dist., and
raise mound of earth 4 ft. base, 2 ft. high, east of
corner.

Light, sandy loam, 12 to 24 ins. deep on hardpan subsoil.

Short salt grass.

Mesquite brush, 4 to 7 ft. high.

No timber.

Thence I run,

S. $0^{\circ} 15'$ E., on true line, along west bdy. of sec. 18.

Over level land, parallel lane.

18.00

Wire fence brs. E. and W.

19.00

P. H. Kenneaster's house, brs. west 6 chs.

21.00

Wire fence brs. E. and W.

39.00

Wire fence brs. E. and W.

39.915

(Proportional distance.) Set an iron post 3 ft. long,
1 in. in diam., 26 ins. in the ground, for reestablished
 $\frac{1}{4}$ sec. cor., with a brass cap, marked,

$\frac{1}{4}$ S on W.,

S 18 on E., and

1913 on S. half;

dig pits $18 \times 18 \times 12$ 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,
west of corner.

69.00

Wire fence, brs. E. and W.

78.00

Wire fence brs. E. and W.; north side of land running west.

79.00

Wire fence, brs. E. and W.; south side of land running west.

79.83

(Proportional distance.) Set an iron post 3 ft. long, 3
ins. in diam., 24 ins. in the ground for reestablished
cor. of secs. 18 and 19, with a brass cap, marked,

T 13 S in N.,

10. Resurvey of West boundary of Township 13 South, Range 25 E. Chains.

S 18, S 19, R 25 E in E., and
 1913 in S. half;
 S 13 in NW., and
 S 24 R 24 E in SW. quadrant;
 dig pits 24x24x12 ins. in each sec. 6 ft. dist., and
 raise a mound of earth 4 ft. base, 2 ft. high, east of
 cor.
 Land, level.
 Soil, adobe, 12 ins. deep on hardpan subsoil.
 Short salt grass, scattering mesquite brush, 4 to 7 ft.
 high.
 No timber.

 Thence I run,
 S. 0°15' E., on true line, along west bdy. of sec. 19.
 Over level land, parallel to and 25 lks. west of west edge
 of lane.

33.40 Wire fence brs. E. and W.
 39.915 (Proportional distance). Set an iron post 3 ft. long, 1 in.
 in diam., 26 ins. in the ground for reestablished $\frac{1}{4}$
 sec. cor., with a brass cap, marked,
 $\frac{1}{4}$ S in W.,
 S 19 in E., and
 1913 in S. half;
 dig pits 18x18x12 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, west of
 cor.

45.40 Wire fence brs. E. and W.

78.90 Wire fence along north edge of east and west lane; thence
 across lane.

79.83 (Proportional distance.) Set an iron post 3 ft. long, 3 ins.
 in diam., 24 ins. in the ground, for reestablished cor.
 of secs. 19, 24, 25 and 30, with a brass cap, marked,
 T 13 S in N.,
 R 24 E in W.,
 1913 in S., and
 R 25 E in E. half;
 S 24 in NW.,
 S 19 in NE.,
 S 30 in SE., and
 S 25 in SW. quadrant;
 dig pits 18x18x12 ins. in each sec. 5 $\frac{1}{2}$ ft. dist., and
 raise mound of earth 4 ft. base, 2 ft. high, west of
 cor.

Land, level.
 Soil, adobe, 12 ins. deep on hardpan subsoil.
 Scattering mesquite, 3 to 6 ft. high; short salt grass.
 No timber.

 Thence I run,
 S. 0°15' E., on true line, along west bdy. of sec. 30.
 Over level land.

.10 Wire fence, brs. E. and W. along south edge of E. and W. lane.

25.40 Wire fence brs. E. and W.; enter cultivated field.

36.40 Wire fence brs. E. and W.; leave cultivated field; thence
 across Barker's front yard.

38.00 Barker's house, brs. west 2 chs.

39.50 Wire fence brs. E. and W.

39.915 (Proportional distance.) Set an iron post 3 ft. long, 1 in.
 in diam., 26 ins. in the ground for reestablished cor.
 cor. with a brass cap, marked, $\frac{1}{4}$ S 25 in W., S 30 in E.,
 and 1913 in S. half; dig pits 18x18x12 ins. N. and S. of post
 3 ft. dist. and raise mound of earth 3 $\frac{1}{2}$ ft. base, 1 $\frac{1}{2}$ ft. high
 west of cor. 1913 in S. half.

70.70 Wire fence brs. E. and W. in E. half;

73.00 Wire fence brs. E. and W.

74.00 Judge Tenley's house, brs. west 3 chs. dist.

Resurvey of West boundary of Township 13 South, Range 25 E 11.

Chains
 78.90 Wire fence along N. side of E. and W. lane.
 79.83 (Proportional dist.) South edge of lane. Set an iron post
 3 ft. long, 3 ins. in diam., 24 ins. in ground for reestab. cor. of
 secs. 25, 30, 31 & 36, with brass cap, marked, T 13 S in N., R 24 E
 in W., 1913 in S., & R 25 E in E. half; S 25 in NW, S 30 in NE., S 31 in SE.
 & S 36 in SW quad.; dig pits 18x18x12 ins. in each sec. 5 ft. dist.,
 & raise mound of earth 4 ft. base, 2 ft. high, west of cor.
 Land, level.
 Soil, adobe, 12 ins. deep on hardpan subsoil.
 Short salt grass.
 No timber.

 Thence I run,
 S. 0° 15' E., on true line, bet. secs. 31. and 36.
 Over level land.
 .50 Gersbach's house, brs. E. 3 chs.
 15.00 Intersect telephone line, brs. N. 0° 30' E., S. 0° 30' W.
 Thence along west edge of road.
 39.915 (Proportional distance.) Set an iron post 3 ft. long, 1 in.
 in diam., 26 ins. in the ground for reestab. cor., with a
 brass cap, marked,
 1/4 S 36 in W.,
 S 31 in E., and
 1913 on S. half,
 dig pits 18x18x12 ins., N. and S. of cor. 3 ft. dist., and
 raise mound of earth 3 1/2 ft. base, 1 1/2 ft. high, west of
 cor.
 63.00 Wagon road to Willcox, brs. N. 80° W., S. 80° E.
 76.00 Corner of wire fence brs. west 2 chs.
 79.83 The reestablished cor. of Ts. 13 and 14 S., Rs. 24 and 25 E.,
 hereinbefore described.
 Land, level.
 Soil, adobe, 12 ins. deep on hardpan subsoil.
 Short salt grass.
 No timber.

May 7th, 1913.

Resurvey of North bdy. of Township 13 South, Range 25 East.

May 8th, 1913: At 8h. 0m. a.m., l.m.t., I set off 17° 03' N.
 on decl. arc; 32° 20' on lat. arc; and determine a meri-
 dian with the solar at the reestablished cor. of Ts.
 12 and 13 S., Rs. 24 and 25 E., hereinbefore described.
 Thence I run,
 East, on radom line, bet. secs. 6 and 31.
 38.62 Fall 11 N. of original 1/4 sec. cor., which is decayed re-
 mains of charred stake. I destroy all trace of this
 old cor., and reestablish it in the same place as fol-
 lows:
 Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in
 the ground for 1/4 sec. cor., with a brass cap, marked,
 1/4 S 31 in N., and
 S 6 1913 in S. half;
 dig pits 18x18x12 ins., east and west of cor., 3 ft.
 dist., and raise a mound of earth 3 1/2 ft. base, 1 1/2 ft.
 high, north of cor.
 Thence I run,
 N. 89° 50' W. on true line, west half, bet. secs. 6 and 31.
 Descending gentle SW slope, through mesquite 4 to 7 ft.
 high.
 38.50 Wagon road, brs. N. and S.
 38.62 The reestablished cor. of Ts. 12 and 13 S., Rs. 23 and 24 E.,
 hereinbefore described.
 Soil, light, sandy loam, with some gravel, coarse texture.
 Scattering grass, mesquite 4 to 7 ft. high.
 No timber.

12. Resurvey of North boundary of Township 13 South, Range 25 E.

Chains.

From $\frac{1}{4}$ sec. cor., bet. secs. 6 and 31, hereinbefore described,
I run,
East, on random line, east half, bet. secs. 6 and 31.
At 40 chs., I make diligent search for original corner of
secs. 5, 6, 31 and 32, which I fail to find; therefore,
I continue my random line east, making diligent search
at intervals of 40 chs. for original $\frac{1}{4}$ sec. and sec.
cors., but am unable to find any evidence of same, un-
til at 199.50 chs., fall 23 lks. N. of original cor. of
secs. 3, 4, 33 and 34, which is a malachite stone 4x5x6
ins., above ground firmly set, marked and witnessed as
described by the Surveyor General.

At the above described cor., I set off $17^{\circ}05\frac{1}{2}'$ N. on decl.
arc; and at 1h. 56m. 24s. a.m., l.m.t., observe the
sun on the meridian, and obtain a reading of $32^{\circ}20'$
on lat. arc.

Thence I run,
N. $89^{\circ}56'W.$, on true line, bet. secs. 4 and 33, ascending
rocky NE. slope, 20 ft.

2.00 Top of ridge, brs. NW. and SE.; thence descend SW. slope,
100 ft.

20.00 Bottom of rocky slope, thence over gentle SE. slope.

39.90 (Proportional distance). Set an iron post 3 ft. long,
1 in. in diam., 26 ins. in the ground for reestablished
 $\frac{1}{4}$ sec. cor., with a brass cap, marked,
 $\frac{1}{4}$ S 33 in N.,
S 4, 1913 in S. 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.

73.00 Wagon road brs. N. $60^{\circ}W.$, S. $60^{\circ}E.$

79.80 (Proportional distance.) Set an iron post 3 ft. long,
3 ins. in diam., 24 ins. in the ground, for reestab.
cor. of secs. 4, 5, 32 and 33, with a brass cap, marked,
T 12 S in N.,
T 13 S 1913 in S., and
R 25 E in W. half;
S 32 in NW.,
S 33 in NE.,
S 4 in SE., and
S 5 in SW. quadrant;
dig pits 18x18x12 ins., in each sec. $5\frac{1}{2}$ ft. dist., and
raise mound of earth 4 ft. base, 2 ft. high, west of
corner.

From 0 to 20 chs., land very rolling.
Soil, rocky, coarse texture, scattering short grass.
From 20 to 79.80 chs., slightly rolling, loose, sandy
soil of coarse texture, 2 ft. deep, on clay subsoil.
Scattering grama-grass.
No timber.

Thence I run, North Boundary of Township 13 S., R. 25 E.
N. $89^{\circ}56'W.$; on true line, bet. secs. 5 and 32.

.50 Along gentle south slope.
Wire fence brs. N. and S. NW. cor. of wire fence brs. N. 2
chs. dist.; enter pasture.

11.00 Dry wash, 25 lks. wide, 3 ft. deep, course S.

34.00 Cabin brs. S. 2 chs.

36.00 Dry wash, 10 lks. wide, 2 ft. deep, course S. $30^{\circ}W.$

39.90 (Proportional distance.) Set an iron post 3 ft. long, 1 in.
in diam., 26 ins. in the ground, for reestablished $\frac{1}{4}$
sec. cor., with a brass cap, marked,
 $\frac{1}{4}$ S 32 on N., and
S 5, 1913 on S. 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.

40.05 Wire fence brs. N. and S. This fence line intersects east

Resurvey of North boundary of Township 13 S., R. 25 East. 13.

Chains.

and west fence line, 1.75 chs. north of line.
 48.00 Cabin brs. south 1.75 chs.
 49.20 Wire fence brs. N and S.
 79.20 Wire fence brs. N and S. NW cor. of fence, brs. N. 150 lks.
 Leave pasture.
 79.80 (Proportional distance.) Set an iron post 3 ft. long, 3 ins. in diam., 24 ins. in ground for reestablish cor. of secs. 5, 6, 31 and 32, with a brass cap, marked,
 T 12 S in N.,
 T 13 S 19 1/3 in S., and
 R 25 E in W. half;
 S 31 in NW.,
 S 32 in NE.,
 S 5 in SE., and
 S 6 in SW. quadrant;
 dig pits 18x18x12 in each sec. 5 1/2 ft. dist., and raise mound of earth 4 ft. base, 2 ft. high, west of cor.
 Land, slightly rolling.
 Soil, loose, red, sandy loam, some gravel, coarse texture.
 Scattering grama-grass.
 No timber.

 Thence I run,
 N. 89° 56' W., on true line, east half, bet. secs. 6 and 31.
 5.00 Enter scattering mesquite brush, 3 to 5 ft. high, brs. N. and S.
 26.50 Dry wash, 10 lks. wide, 1 ft. deep, course S 30° W.
 39.90 Reestablished 1/4 sec. cor., bet. secs. 6 and 31, hereinbefore described.
 Gentle SW. slope, loose, red, sandy loam, coarse texture, scattering grama-grass, mesquite brush, 3 to 5 ft. high.
 No timber.

 From the original cor. of secs. 3, 4, 33 and 34, hereinbefore described, the original cor. of secs. 2, 3, 34 and 35, being plainly visible, I run,
 S. 89° 44' E., for said cor., and at 40 chs., make diligent search for original 1/4 sec. cor., but am unable to find any trace of same, and at 79.81 chs., intersect original cor. of secs. 2, 3, 34 and 35, which is a malachite stone, 4x8x6 ins. above ground, firmly set, marked and witnessed, as described by the Surveyor General. I destroy all trace of this old cor., 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 cor. of secs. 2, 3, 34 and 35, with a brass cap, marked,
 T 12 S in N.,
 T 13 S 19 1/3 in S., and
 R 25 E in W. half;
 S 34 in NW.,
 S 35 in NE.,
 S 2 in SE., and
 S 3 in SW. quadrant;
 dig pits 18x18x12 ins. in each sec. 5 1/2 ft. dist., and raise mound of earth 4 ft. base, 2 ft. high, west of cor.
 Thence I run,
 N. 89° 44' W. on true line, bet. secs. 3 and 34.
 Over slightly rolling, sandy land.
 39.905 Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in the ground for reestablished 1/4 sec. cor., with a brass cap, marked,
 1/4 S 34 in N.,
 S 3 19 1/3 in S. half;

14. Resurvey of North boundary of Township 13 S., R. 25 E.

Chains.

- dig pits 18x18x12 ins.. E and W. of post, 3 ft. dist., and raise mound of earth $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high, north of cor.
- 69.00 Foot of rocky slope, brs. NW. and SE.; thence ascend 80 ft. to cor.
- 79.81 The original cor. of secs. 3, 4, 33 and 34, hereinbefore described.
East, 69 chs. slightly rolling, loose, red, sandy loam soil, 2 ft. deep on clay subsoil.
Scattering grama-grass.
West 11 chs. rocky hillside.
Very little soil.
No timber.
-
- From the reestablished cor. of secs. 2, 3, 34 and 35, hereinbefore described, I run,
East, on random line, bet. secs. 2 and 35.
At 40 chs., I make diligent search for original $\frac{1}{4}$ sec. cor. which I fail to find, and at 80 chs., I make diligent search for original cor. of secs. 1, 2, 35 and 36, which I am unable to find; therefore, I continue my random line east, bet. secs. 1 and 36.
At 120 chs., I make diligent search for original $\frac{1}{4}$ sec. cor., which I also fail to find. At 159.84 chs., I fall 18 lks. north of original cor. of Ts. 12 and 13 S., Rs. 25 and 26 E., which is a granite stone 6x8x4 ins. above ground, firmly set, marked and witnessed, as described by Surveyor General. I destroy all trace of this old cor., 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 the cor. of Ts. 12 and 13 S., Rs. 25 and 26 E., with a brass cap, marked,
T 12 S in N.,
R 25 E in W.,
T 13 S 1913 in S., and
R 26 E in E. half; and
S 36 in NW.,
S 31 in NE.,
S 6 in SE., and
S 1 in SW quadrant;
dig pits 24x24x12 ins. on each line, E, W and N. 4 ft., and S of post 8 ft. dist., and raise mound of earth 5 ft. base, $2\frac{1}{2}$ ft. high, south of cor.
Thence I run,
N. 89° 56' W., on true line, bet. secs. 1 and 36.
Over rolling, prairie land.
- 39.96 (Proportional distance). Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in ground for reestablished $\frac{1}{4}$ sec. cor., with a brass cap, marked,
 $\frac{1}{4}$ S 36 in N.,
S 1, 1913 on S. half;
dig pits 18x18x12 ins., E and W of post 3 ft. dist., and raise mound of earth $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high, N. of cor.
- 54.00 R.R. of right-of-way fence, brs. N. 60° E., S. 60° W.
- 59.50 Main line Southern Pacific R.R. brs. N. 53 $\frac{3}{4}$ ° E., S. 53 $\frac{3}{4}$ ° W.
From this point sec. house, brs. N. 2 chs.
- 62.00 Telegraph office of Ras@, bears S. 2 chs.
- 64.00 R.R. right-of-way fence, brs. N. 60° E., S. 60° W.
- 65.75 Wagon road, brs. N. 60° E., S. 60° W.
- 79.92 (Proportional distance). Set an iron post 3 ft. long, 3 ins. in diam., 24 ins. in the ground for reestablished cor. of secs. 1, 2, 35 and 36, with a brass cap, marked,
T 12 S in N.,
T 13 S 1913 in S., and
R 25 E in W. half;
S 35 in NW.,
S 36 in NE.,

Resurvey of North boundary of Township 13 South, Range 25 E. 15.

Chains.

S 1 in SE., and
 S 2 in SW. quadrant;
 raise a mound of stone, 2 ft. base, 2 ft. high, west of
 cor. Pits impracticable.
 Slightly rolling land.
 Loose, red, ssndy loam, some gravel, coarse texture.
 Good growth of grama-grass, 6 ins. high.
 No timber.

Thence I run,
 N. 89° 56' W., on true line, bet. secs. 2 and 35.
 Over slightly rolling, prairie land.
 .25 Dry wash, 25 lks. wide, 1 ft. deep, course S. 60° W.
 39.96 (Proportional distance.) Set an iron post, 3 ft. long, 1
 in. in diam., 26 ins. in the ground, for reestablished
 1/4 sec. cor., with a brass cap, marked,
 1/4 S 35 in N.,
 S 2, 1913 in S. half;
 dig pits 18x18x12 ins., E and W. of post, 3 ft. dist.,
 and raise mound of earth 3 1/2 ft. base, 1 1/2 ft. high, N.
 of cor.

79.92 The reestablished cor. of secs. 2, 3, 34 and 35, hereinbe-
 fore described.
 Slightly rolling prairie land.
 Loose, red, sandy loam, soil, 24 ins. deep on clay sub-
 soil.
 Good growth of grama-grass.
 No timber.

May 8th, 1913.

Retracement of West bdrs. of Ts. 14 and 15 S., R. 25 East.

Retracement commenced May 9th, 1913, and executed by
 Thomas B. Matthews, U.S. Surveyor, with Young and Sons'
 light mountain transit No. 8480, with solar attachment;
 the horizontal limb is provided with two double ver-
 niers placed opposite to each other, reading to single
 minutes of arc, which is also the least count of the
 verniers of the latitude and decl. arcs. This instru-
 ment was approved by the Supervisor of Surveys, Jan.
 30th, 1913.

I examine the adjustments of the transit, and find them to
 be correct, and know from recent tests of the solar
 apparatus, by comparing its indications resulting
 from solar observations made during a. m. and p. m.
 hours, with a meridian established by observation on
 Polaris, at elongation, that the instrument is in sat-
 isfactory adjustment.

At 7h. 30m., a. m., l. m. t., I set off 17° 19' N. on decl. arc;
 32° 15' on lat. arc; and determine a meridian with the
 solar at the cor. of Ts. 13 and 14 S., Rs. 24 and 25 E.,
 which I reestablished May 6th, 1913, as hereinbefore
 described. The magnetic bearing of the true meridian
 thus established is N. 12° 50' W.; the angle thus deter-
 mined gives the magnetic decl. N. 12° 50' E.

Thence I run, (as per original course.)

40.42 S. 0° 09' E., on random line, bet. secs. 1 and 6.
 Make diligent search for original 1/4 sec. cor., which I fail
 to find.

80.42 Make diligent search for original cor. of secs. 1, 6, 7 and 12,
 which I fail to find; therefore, I continue measure-
 ment on random line south, bet. secs. 7 and 12 (as per
 original course.)

16. Retracement West boundaries of Townships 14 & 15 S., R. 25 E.

Chains.

- 20.42 Make diligent search for original $\frac{1}{4}$ sec. cor., which I fail to find.
- 160.42 Make diligent search for original cor. of secs. 7, 12, 13 and 18, which I also fail to find. Continue random line, south, bet. secs. 13 and 18.
- 201.22 Fall 45 lks. east of point for original $\frac{1}{4}$ sec. cor., which I locate 4 ft. north of redwood stake set in south pit, marked as described by Surveyor General. Therefore, the true return bearing bet. secs. 7 and 12, and north half bet. secs. 13 and 18 is N. 0° 10' E., and bet. secs. 1 and 6 is N. 0° 05' W., as properly proportioned with original bearings.

- 40.00 From the above described point for the original $\frac{1}{4}$ sec. cor. bet. secs. 13 and 18, I run, South, on random line, south half bet. secs. 13 and 18. Make diligent search for original $\frac{1}{4}$ sec. cor., with I fail to find. Therefore, I continue my random line S., making diligent search for original $\frac{1}{4}$ sec. and sec. cors., at intervals of 40 chs., but fail to find any evidence of any original cor. until at
- 758.48 Intersect the Third Standard Parallel South 309 lks. east of the original standard cor. of Tp. 15 S., Rs. 24 and 25 E., which is a pine post 4x4x16 ins. above ground, firmly set, marked and witnessed as described by Surveyor General. This old cor. being in a state of dilapidation, I destroy all trace of the old cor., 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 Tp. 15 S., Rs. 24 and 25 E., with a brass cap, marked,
T 15 S in N., and
1913 in S. half;
R 24 E S 36 in NW., and
R 25 E S 31 in NE. quadrant;
dig pits 30x24x12 ins., crosswise on each line, E. and W. 4 ft., and N. of cor. 8 ft. dist., and raise mound of earth 5 ft. base, 2½ ft. high, north of cor.
Thence I run, temp. W. bdrs. of Tps. 14 & 15 S., R. 25 E. N. 0° 14' E.; on temp. N and S. line, setting temp. $\frac{1}{4}$ sec. and sec. cors. at intervals of 39.92 chs., and 79.84 chs., respectively, and temp. Tp. cor. at 479.04 chs., and at 758.48 chs. intersect the point for original $\frac{1}{4}$ sec. cor., bet. secs. 13 and 18, Township 14 S., Rs. 24 and 25 E., hereinbefore described.
- Note: At the reestablished standard cor. of Tp. 15 S., Rs. 24 and 25 E., I set off 17° 21½' N. on decl. arc, and at 11h. 56m. 21secs. a.m., l.m.t., observe the sun on the meridian, and obtain a reading of 32° 04' on lat. arc.
May 9th, 1913.

Retracement of South bdy. of Township 14 S., Ranges 24 & 25 E.

- May 10th, 1913: At 8h. 30m. a.m., l.m.t., I set off 17° 35' N. on decl. arc; 32° 09½' on lat. arc, and determine a meridian with the solar at the original cor. of Tps. 14 and 15 S., Rs. 25 and 26 E., which is decayed remains of old pine post, mound and pits nearly obliterated.
- Thence I run,
West, on random line, bet. secs. 1 and 36.
- 40.12 Intersect original sec. cor., which is a pine post, 4x4x16 ins. above ground, firmly set, marked and witnessed, as described by the Surveyor General. Therefore, the true bearing is west.

Retracement of South bdy. of Township 14 S., Rs. 24 and 25 E. 17

Chains.

40.00 Thence I run, West, on random line, west half, bet. secs. 1 and 36. Make diligent search for original cor. of secs. 1, 2, 35 and 36, which I fail to find; therefore, I continue my random line,

80.44 West, bet. secs. 2 and 35. Fall 17 lks. S. of original $\frac{1}{4}$ section corner, which is a pine post, 4x4x16 ins. above ground, firmly set, marked and witnessed as described by the Surveyor General. Therefore, the true bearing is N. 89° 57' W.

40.20 Thence I run, West, on random line, bet. secs. 2 and 35. Fall 2 lks. S. of orig. cor. of secs. 2, 3, 34 & 35, which is pine post 4x4x16 ins. above ground, firmly set, marked & witnessed as described by the Surveyor General. Therefore, the true bearing is N. 89° 58' W.

40.00 Thence I run, West, on random line, bet. secs. 3 and 34. Make diligent search for original $\frac{1}{4}$ sec. cor., which I fail to find.

80.00 Make diligent search for original cor. of secs. 3, 4, 33 and 34, which I also fail to find. Therefore, I continue my random line west, making diligent search for original $\frac{1}{4}$ sec. and sec. cors. at intervals of 40 chs., but fail to find any evidence of any original cor. on this line.

801.81 Intersect west bdy. of Tp. 15 S., R. 24 E., 93 lks. S. of reestablished cor. of Ts. 14 and 15 S., Rs. 23 and 24 E., True bearing from this cor. to original cor. of secs. 2, 3, 34 and 35, Ts. 14 and 15 S., R. 25 E. is S. 89° 56' E.
Note: This intersection was not made until after the above described Tp. cor. had been reestablished May 12th, 1913, as hereinafter described.
May 10th, 1913.

West boundary of T. 14 S., R. 24 E. &
Retracement of North $\frac{1}{2}$ of West bdy. of T. 15 S., R. 24 E.

May 12th, 1913: At 7h. 30m. a.m., l.m.t., I set off 18° 06 $\frac{1}{2}$ ' N. on decl. arc; 32° 15' on lat. arc, and determine a meridian with the solar at the original cor. of Ts. 13 and 14 S., Rs. 23 and 24 E., which is a malachite stone 10x12x8 ins., loosely set, marked and witnessed as described by the Surveyor General.

40.00 Thence I run, South, on random line, bet. secs. 1 and 6. Fall 11 lks. east of $\frac{1}{4}$ sec. cor., which is a granite stone 10x6x8 ins., loosely set, marks nearly obliterated. Therefore, the true return bearing is N. 0° 09' E.

40.00 Thence I run, South, from $\frac{1}{4}$ sec. cor., on random line, bet. secs. 1 and 6, on south half mile. Make diligent search for original cor. of secs. 1, 6, 7 and 12, which I fail to find; therefore, I continue my random line,

79.92 South, bet. secs. 7 and 12. Fall 9 lks. east of original $\frac{1}{4}$ sec. cor., which is a granite stone 14x5x3 ins., loosely set and marked as described by the Surveyor General. Therefore, the true return bearing is N. 0° 04' E.

Thence I run, South, from $\frac{1}{4}$ sec. cor. on random line, bet. secs. 7 and 12 on south half mile.

West boundary of T.14 S., R.24 E. &

18. Retracement of North half of West bdy. of T.15 S., R.24 E.

Chains.

40.00 Make diligent search for original cor. of secs. 7, 12, 13 and 18, which I fail to find; therefore, I continue my random line south, making diligent search for original $\frac{1}{4}$ sec. and sec. cors. at intervals of 40 chs., but fail to find any evidence of any original cor. along this line until at

601.50 Fall 35 lks. E. of original cor. of secs. 13, 18, 19 and 24, Tp. 15 S., Rs. 23 and 24 E., which is a granite stone 3x6x10 ins., loosely set, marked and witnessed as described by the Surveyor General.

True return bearing from this cor. to original $\frac{1}{4}$ sec. cor. bet. secs. 7 and 12, T.14 S., Rs. 23 and 24 E. is N.0°02' E.

May 12th, 1913.

Resurvey of North $\frac{1}{2}$ of West bdy. of Tp. 15 S., R. 24 E.

May 12th, 1913:

The original cor. of secs. 13, 18, 19 and 24, T.15 S., Rs. 23 and 24 E., hereinbefore described, being in a state of dilapidation, I destroy all trace of this old cor., 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 cor. of secs. 13, 18, 19 and 24, with a brass cap, marked,

T 15 S in N., and
1913 in S. half;
R 23 E S 13 in NW.,
R 24 E S 18 in NE.,
S 19 in SE., and
S 24 in SW. quadrant;

dig pits 18x18x12 ins., in each sec. $5\frac{1}{2}$ ft. dist., and raise mound of earth 4 ft. base, 2 ft. high, west of cor. At the above described cor., I set off 18° 08 $\frac{1}{2}$ ' N. on decl. arc; and at 11h. 56m. 14secs. a.m., l.m.t., observe the sun on the meridian, and obtain a reading of 32° 07' on lat. arc.

Thence I run,

N.0°02'E., on true line, bet. secs. 13 and 18.

Over slightly rolling prairie land, through shellac brush 3 to 6 ft. high.

4.50 Wagon road, brs. N.60°W., S.60°E.

66.50 Wagon road brs. N.60°W., S.60°E.

14.00 Dry wash, 15 lks. wide, 2 ft. deep, course east.

20.00 Dry wash, 10 lks. wide, 2 ft. deep, course S.80° E.

27.00 Dry wash, 10 lks. wide, 18 ins. deep, course east.

36.00 Dry wash, 50 lks. wide, 1 ft. deep, course S.60° E. 1 ft. deep,

40.10 (Proportional distance.) Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in the ground for reestablished $\frac{1}{4}$ sec. cor., with a brass cap, marked,

$\frac{1}{4}$ S 13 in W.,
S 18 in E., and
1913 in S. half;

dig pits 18x18x12 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.

80.20 (Proportional distance.) Set an iron post 3 ft. long, 3 ins. in diam., 24 ins. in the ground for reestablished cor. of secs. 7, 12, 13 and 18, with a brass cap, marked,

T 15 S in N., and
1913 in S. half;
R 23 E S 12 in NW.,
R 24 E S 7 in NE.,
S 18 in SE., and
S 13 in SW. quadrant;

dig pits 18x18x12 ins. in each sec. $5\frac{1}{2}$ ft. dist., and raise a mound of earth 4 ft. base, 2 ft. high, west of cor.

Resurvey of North $\frac{1}{2}$ of West bdy. of Township 15 S., R. 24 E. 19.

Chains.

Land, level and rolling.
Soil, light, sandy loam, coarse texture, 12 to 18 ins. deep, on gravel subsoil.
Good grass. shellac brush 3 to 6 ft. high.
No timber.

40.10

Thence I run,
N.0°02'E., on true line, bet. secs. 7 and 12.
Over slightly rolling land, through shellac and mesquite brush, 3 to 6 ft. high,
(Proportional distance). Set an iron post 3 ft. long, 1 in in diam., 26 ins. in the ground for reestablished $\frac{1}{4}$ sec. cor., with a brass cap, marked,
 $\frac{1}{4}$ S 12 in W.,
S 7 in E., and
1913 in S. half;
dig pits 18x18x12 ins., N. and S. of post, 3 ft. dist., and raise mound of earth $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high, west of cor.

74.00

From this cor., SW cor. of wire fence brs. east 50 lks. dist.; thence parallel to, and 50 lks. west of wire fence.

75.50

Tent house brs. west 2 chs. dist.
NW cor. of wire fence, brs. E. 50 lks.

76.00

Wagon road, brs. E. and W.

80.20

(Proportional distance). Set an iron post 3 ft. long, 3 ins. in diam., 24 ins. in ground for reestablished cor. of secs. 1, 6, 7 and 12, with a brass cap, marked,
T 15 S in N., and
1913 in S. half;
R 23 E S 1 in NW.,
R 24 E S 6 in NE.,
S 7 in SE., and
S 12 in SW. quadrant;
dig pits 18x18x12 ins. in each sec. $5\frac{1}{2}$ ft. dist., and raise mound of earth 4 ft. base, 2 ft. high, west of cor.

Land, level and rolling.
Soil, light, sandy, coarse texture, 12 to 18 ins. deep on clay subsoil.
Shellac, mesquite brush, 3 to 6 ft. high, scattering grass.
No timber.

40.10

Thence I run,
N.0°02'E., on true line, bet. secs. 1 and 6.
Through mesquite brush, 3 to 6 ft. high, over level land.
(Proportional distance). Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in the ground for reestablished $\frac{1}{4}$ sec. cor., with a brass cap, marked,
 $\frac{1}{4}$ S 1 in W.,
S 6 in E., and
1913 in S. half;
dig pits 18x18x12 ins., N. and S. of post, 3 ft. dist., and raise mound of earth $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high, west of cor.

41.50

Wagon road, brs. N. 30° W., S. 30° E.

42.50

Dry wash, 5 lks. wide, 1 ft. deep, course E.

80.20

(Proportional distance). Set an iron post 3 ft. long, 3 ins. in diam., 24 ins. in the ground for reestablished cor. of Ts. 14 and 15 S., Rs. 23 and 24 E., with a brass cap, marked,

T 14 S in N.,
R 24 E in E.,
T 15 S 1913 in S., and
R 23 E in W. half;
S 36 in NW.,

20. Resurvey of North $\frac{1}{2}$ of West bdy. of T. 15 S. R. 24 E.

Chains.

S 31 in NE.;
 S 6 in SE., and
 S 1 in SW. quadrant;
 dig pits 24x24x12 ins. on each line, N., E. and W., 4 ft.
 and south of post 8 ft. dist., and raise mound of earth
 5 ft. base, $2\frac{1}{2}$ ft. high, south of cor.
 Land, level.
 Light, sandy loam soil, coarse texture, 12 ins. deep on
 clay subsoil, scattering grass, mesquite brush, 3 to
 6 ft. high.
 No timber.

May 12th, 1913.

Temporary South bdrs. of Township 14 South, Ranges 24 & 25 E.

May 13th, 1913: From the cor. of Ts. 14 and 15 S., Rs. 23 and
 24 E. above described, I run,
 S. $89^{\circ}56'$ E., along south bdy. of Tp. 14 S., R. 24 E. on temp.
 E. and W. line, setting temp. $\frac{1}{4}$ sec. and sec. cors. at dis-
 tances proportional to distances shown on original
 plat, and at 481.75 chs. set temp. Tp. cor., from which
 I determine the point for original cor. of Ts. 14 and
 15 S., Rs. 24 and 25 E., 84 lks. north, and west 10 lks.
 from temp. cor., for above numbered townships and ranges
 set on temp. north and south line.

From the last above mentioned temp. cor. on temp. E. and W.
 line, I run,
 S. $89^{\circ}56'$ E. on temp. E. and W. line, along south bdy. of Tp.
 14 S., T. 25 E., setting temp. $\frac{1}{4}$ sec. cor. and sec. cors. at
 distances proportional to distances shown on original
 plat. And at 320.06 chs. intersect original cor. of secs.
 2, 3, 34 and 35, hereinbefore described.

May 13th, 1913.

Resurvey of West bdy. of Township 14 South, Range 24 E.

May 13th, 1913: At 7h. 30m. a.m., l.m.t., I set off 18°
 $21'$ N. on decl. arc; $32^{\circ}09\frac{1}{2}'$ on lat. arc, and determine
 a meridian with the solar at the cor. of Ts. 14 and 15
 S., Rs. 23 and 24 E., previously reestablished by me,
 as hereinbefore described

Thence I run, (as per result of retracement hereinbefore
 noted).

N. $0^{\circ}02'$ E., on true line; bet. secs. 31 and 36.

Over slightly rolling land, through mesquite, 2 to 6 ft.
 high.

1.50 Wire fence, brs. E. and W.
 8.50 Wagon road, brs. E. and W.
 15.00 Dry wash, 50 lks. wide, 4 ft. deep, course east.
 40.10 (Proportional distance). Set an iron post 3 ft. long, 1
 in. in diam., 26 ins. in the ground for reestablished
 sec. cor., with a brass cap, marked,
 $\frac{1}{4}$ S 36 in W.,
 S 31 in E., and
 1913 in S. half;
 dig pits 18x18x12 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,
 west of cor.

Resurvey of West bdy. of Township 14 South, Range 24 East. 21.

Chains.

40.50 Dry wash, 30 lks. wide, 2 ft. deep, course east.
 59.00 Dry wash, 25 lks. wide, 1 ft. deep, course S. 60° E.
 74.00 Dry wash, 50 lks. wide, 2 ft. deep, course S. 60° E.
 80.20 (Proportional dist.) Set an iron post, 3 ft. long, 3 ins. in diam., 24 ins. in the ground for reestablished cor. of secs. 25, 30, 31 and 36, with a brass cap, marked,
 T 14 S in N., and
 19 1/3 in S. half;
 R 23 E S 25 in NW.,
 R 24 E S 30 in NE.,
 S 31 in SE., and
 S 36 in SW. quadrant;
 dig pits 18x18x12 ins., in each sec. 5 1/2 ft. dist., and raise a mound of earth 4 ft. base, 2 ft. high, west of cor.
 Land, level and rolling.
 Soil, loose, sandy soil, with gravel, 12 to 18 ins. deep, on clay subsoil.
 Scattering grass and scattering mesquite, 3 to 6 ft. high.
 No timber.

Thence I run,
 N. 0° 02' E., on true line, bet. secs. 25 and 30.
 Over slightly rolling land, through mesquite, 3 to 6 ft. high.

1.25 Dry wash, 50 lks. wide, 2 ft. deep, S. 30° E.
 10.00 Dry wash, 30 lks. wide, 2 ft. deep, course S 30° E.
 24.00 Wagon road brs. N. 30° W., S. 30° E.
 29.00 Wagon road, brs. E and W.
 40.10 (Proportional distance). Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in the ground, for reestablished 1/4 sec. cor., with a brass cap, marked,
 1/4 S 25 in W.,
 S 30 in E., and
 19 1/3 in S. half;
 dig pits 18x18x12 ins. N. and S. of post 3 ft. dist., and raise a mound of earth 3 1/2 ft. base, 1 1/2 ft. high, W. of corner. Thence parallel to and 50 lks. west of fence.

56.00 Dry wash, 50 lks. wide, 1 ft. deep, course S. 60° E.
 62.00 Leave mesquite brush, brs. E and W.; thence over open prairie land.

80.20 (Proportional distance) Set an iron post 3 ft. long, 3 ins. in diam., 24 ins. in the ground for reestablished cor. of secs. 19, 24, 25 and 30, with a brass cap, marked,
 T 14 S in N., and
 19 1/3 in S. half;
 R 23 E S 24 in NW.,
 R 24 E S 19 in NE.,
 S 30 in SE., and
 S 25 in SW. quadrant;
 dig pits 18x18x12 ins., in each sec. 5 1/2 ft. dist., and raise mound of earth 4 ft. base, 2 ft. high, west of corner. From this cor., the NW. cor. of fence brs. S. 45° E., 60 lks. dist.

Land, level and rolling.
 Soil, dark, sandy loam, 12 to 18 ins. deep on clay subsoil.
 Scattering short grass, mesquite brush, 3 to 6 ft. high.
 No timber.

Note: North 1/2 of this mile runs parallel to and 50 lks. west of fence.

Thence I run,
 N. 0° 02' E., on true line, bet. secs. 19 and 24.
 Over slightly rolling, prairie land.

1.00 Wire fence brs. E and W.
 4.00 Dry wash, 50 lks. wide, 3 ft. deep, course S. 30° E.

22. Resurvey of West bdy. of Township 14 South, Range 24 East.

Chains.

- 20.00 Enter mesquite brush, 3 to 6 ft. high, brs. E. and W.
 40.10 (Proportional distance). Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in ground for reestablished $\frac{1}{4}$ sec. cor., with a brass cap, marked,
 $\frac{1}{4}$ S 24 in W.,
 S 19 in E., and
 1913 in S-half;
 dig pits 18x18x12 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, west of cor.
- 60.00 Dry wash, 50 lks. wide, course S. 60° E.
 80.20 (Proportional distance). Set an iron post 3 ft. long, 3 ins. in diam., 24 ins. in the ground for reestablished cor. of secs. 13, 18, 19 and 24, with a brass cap, marked,
 T 14 S in N., and
 1913 in S-half;
 R 23 E S 13 in NW.,
 R 24 E S 18 in NE.,
 S 19 in SE., and
 S 24 in SW. quadrant;
 dig pits 18x18x12 ins., in each sec. $5\frac{1}{2}$ ft. dist., and raise a mound of earth 4 ft. base, 2 ft. high, west of cor.
- Land, level and rolling.
 Soil, red, gravelly, sandy loam, 18 ins. deep on clay subsoil.
 Good grass, scattering mesquite, 3 to 6 ft. high.
 No timber.

-
- Thence I run,
 N. 0° 02' E., on true line, bet. secs. 13 and 18.
 Ascending gentle south slope, through scattering mesquite brush, 3 to 6 ft. high.
- 15.00 Leave scattering mesquite, brs. E. and W.; thence over open prairie land.
 40.10 (Proportional distance). Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in the ground for reestablished $\frac{1}{4}$ sec. cor., with a brass cap, marked,
 $\frac{1}{4}$ S 13 in W.,
 S 18 in E., and
 1913 in S-half;
 dig pits 18x18x12 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, west of cor.
- 57.00 Wagon road, brs. E. and W.
 80.20 (Proportional distance). Set an iron post, 3 ft. long, 3 ins. in diam., 24 ins. in the ground, for reestablished cor. of secs. 7, 12, 13 and 18, with a brass cap, marked,
 T 14 S in N., and
 1913 in S-half;
 R 23 E S 12 in NW.,
 R 24 E S 7 in NE.,
 S 18 in SE., and
 S 13 in SW. quadrant;
 dig pits 18x18x12 ins., in each sec. $5\frac{1}{2}$ ft. dist., and raise mound of earth 4 ft. base, 2 ft. high, west of cor.
- Land, gentle south slope.
 Soil, red, gravelly, sandy loam, very loose, 12 to 18 ins. deep on clay subsoil.
 Good growth of grama-grass, with scattering yuccas on N. 60 chs.
 Scattering mesquite brush, 3 to 6 ft. high on south 20 chs.
 No timber.
-

Resurvey of West bdy. of Township 14 South Range 24 East. 23.

Chains.

Thence I run,
 N.0°02'E., on true line bet. secs.7 and 12.
 Ascending very gentle south slope, through open prairie
 land, through scattering yuccas, 4 to 8 ft.high.
 5.50 Dry wash, 10 lks.wide, 1 ft. deep, course S.80°E.
 40.10 Intersect original $\frac{1}{4}$ sec.cor., previously described. This
 old cor. being in a state of dilapidation, I destroy
 all trace of same 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 $\frac{1}{4}$ sec.cor., with a brass cap, marked,
 $\frac{1}{4}$ S 12 in W.,
 S 7 in E., and
 1913 in S.half;
 dig pits 18x18x12 ins., N.and S.of post, 3 ft. dist.,
 and raise mound of earth $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high,W.
 of cor.
 Thence I run,from $\frac{1}{4}$ sec.cor.
 N.0°04'E. on true line, bet. secs.7 and 12, on north half
 mile.
 Over slightly rolling prairie, through scattering yuccas,
 4 to 8 ft.high.
 23.00 Small cabin brs.west 30 lks.
 39.00 NW. cor.of wire fence, brs.east 50 lks.
 Note: From $\frac{1}{4}$ sec.cor. north, this line runs parallel to and
 50 lks.west of wire fence.
 39.96 (Proportional distance). Set an iron post, 3 ft.long, 3
 ins. in diam., 24 ins. in ground, for reestablished
 cor.of secs. 1,6,7 and 12, with a brass cap, marked,
 T 14 S in N., and
 1913 in S.half;
 R 23 E S 1 in NW.,
 R 24 E S 6 in NE.,
 S 7 in SE., and
 S 12 in SW. quadrant;
 dig pits 18x18x12 ins., in each sec. $5\frac{1}{2}$ ft. dist.,and
 raise a mound of earth 4 ft.base, 2 ft.high, west of
 cor.
 Land, level and rolling.
 Soil, red, gravelly,sandy loam, 12 to 18 ins. deep on
 clay subsoil.
 Good grama-grass.
 Scattering yuccas, 4 to 8 ft. high.
 No timber.

 Thence I run,
 N.0° 04' E., on true line, bet. secs.1 and 6.
 Over level prairie land, through scattering yuccas, 4 to 8
 ft.high.
 39.00 Dry wash, 15 lks.wide, 1 ft. deep, course S.60° E.
 39.96 Intersect original $\frac{1}{4}$ sec.cor., previously described. This
 old cor.being in a state of dilapidation, I destroy all
 trace of same, and reestablish it in the same place,
 as follows:
 Set an iron post 3 ft.long, 1 in. in diam., 26 ins. in
 ground, for $\frac{1}{4}$ sec.cor., with a brass cap, marked,
 $\frac{1}{4}$ S 1 in W.,
 S 6 in E., and
 1913 in S.half;
 dig pits 18x18x12 ins., N.and S. of post, 3 ft. dist.,
 and raise mound of earth $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high,west
 of cor.
 Thence I run,
 From $\frac{1}{4}$ sec.cor., N.0°09'E. on true line, bet. secs.1 and 6
 on north half mile.
 Over slightly rolling prairie land, through scattering
 yuccas, 4 to 8 ft.high.
 6.00 Dry wash, 10 lks.wide, 1 ft. deep, course S.60°E.
 27.00 Dry wash, 15 lks.wide, 2 ft. deep, course S.60° E.

24. Resurvey of West bdy. of Township 14 South, Range 24 East.

Chains.

29.00 Wagon road, brs. N. 60° E., S. 60° W.
 38.00 Dry wash; 15 lks. wide, 2 ft. deep, course N. 60° E.
 40.00 Intersect original cor. of Ts. 13 and 14 S., Rs. 23 and 24 E. previously described. This old cor. being in a state of dilapidation, I destroy all trace of same, and re-establish it in the same place as follows:
 Set an iron post 3 ft. long, $\frac{3}{8}$ ins. in diam., 24 ins. in the ground, for cor. of Ts. 13 and 14 S., Rs. 23 and 24 E., with a brass cap, marked,
 T 13 S in N.,
 R 24 E in E.,
 T 14 S 1913 in S., and
 R 23 in W. half;
 S 36 in NW.,
 S 31 in NE.;
 S 6 in SE., and
 S 1 in SW. quadrant;
 dig pits 24x24x12 ins. on each line, N., E. and W., 4 ft. and S' of post 8 ft. dist., and raise mound of earth, 5 ft. base, 2 $\frac{1}{2}$ ft. high, south of cor.
 Land, level and rolling.
 Soil, loose, red gravelly, sandy loam, 12 to 24 ins. deep on clay subsoil.
 Good grama-grass, with scattering yuccas, 4 to 8 ft. high.
 No timber.

May 13th, 1913.

Retracement of N. boundary of Township 14 S., R. 24 E.

May 14th, 1913: At 7h. 30m., a.m., l.m.t., I set off 18° 35 $\frac{1}{2}$ ' N. on decl. arc; 32° 15' on lat. arc, and determine a meridian with the solar at the cor. of Ts. 13 and 14 S., Rs. 24 and 25 E., reestablished by me, as hereinbefore described.

Thence I run,

West, on random line, bet. secs. 1 and 36.

40.00 Make diligent search for original $\frac{1}{4}$ sec. cor., which I fail to find.80.00 Make diligent search for original cor. of secs. 1, 2, 35 and 36, which I also fail to find. Therefore, I continue my random line west, making diligent search for original $\frac{1}{4}$ sec. and sec. cor. at intervals of 40 chs. but fail to find any evidence of any original cor., until at 482.04 chs., intersect west bdy. of Tp., 42 lks. S. of the cor. of Ts. 13 and 14 S., Rs. 23 and 24 E., reestablished by me, as hereinbefore described.

Therefore, the true return bearing is S. 89° 57' E.

May 14th, 1913.

Resurvey of North bdy. of Township 14 South, Range 24 E.

May 14th, 1913: At the cor. of Ts. 13 and 14 S., Rs. 23 and 24 E., hereinbefore described, I set off 18° 38' N. on decl. arc, and at 11h. 56m. 12secs. a.m., l.m.t., observe the sun on the meridian, and obtain a reading of 32° 15' on lat. arc.

Thence I run,

S. 89° 57' E., on true line, bet. secs. 6 and 31.

Descending gentle E. slope, over open prairie land.

8.00 Dry wash, 10 lks. wide, 2 ft. deep, course N. 60° E.
40.17 (Proportional distance). Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in ground for reestablished $\frac{1}{4}$ sec. cor., with a brass cap, marked,
 $\frac{1}{4}$ S 31 in N., and
 S 6, 1913 in S. half;

Resurvey of North bdy. of Township 14 South, Range 24 East. 25.

Chains.

77.00 dig pits 18x18x12 ins., E. and W. of post 3 ft. dist.,
 80.34 and raise mound of earth $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high, N. of cor.
 Wagon road, brs. N. 80° E., S. 80° W.
 (Proportional distance). Set an iron post 3 ft. long, 3 ins. in diam., 24 ins. in the ground for reestablished cor. of secs. 5, 6, 31 and 32, with a brass cap, marked,
 T 13 S in N.,
 T 14 S 19 1/3 in S., and
 R 24 E in W. half;
 S 31 in NW.,
 S 32 in NE.,
 S 5 in SE., and
 S 6 in SW. quadrant;
 dig pits 18x18x12 ins., in each sec. $5\frac{1}{2}$ ft. dist., and raise mound of earth 4 ft. base, 2 ft. high, west of cor.
 Land, gentle east slope.
 Soil, red, gravelly, sandy loam, 12 to 18 ins. deep on clay subsoil.
 Good grama-grass, scattering mesquite brush, 3 to 4 ft. high at east end of line.
 No timber.

Thence I run,
 S. 89° 57' E., on true line, bet. secs. 5 and 32.
 Descending gentle east slope, through mesquite brush, 3 to 6 ft. high.
 1.00 Wagon road, brs. N. 60° E., S. 60° W.
 1.25 Wire fence brs. N. and S.; thence parallel to and 70 lks. S. of center of lane.
 10.00 Wire fence, brs. N. and S.; thence along north edge of cultivated field; leave mesquite.
 36.00 S. N. Kemp's house, brs. S. 250 lks.; leave cultivated field; enter scattering mesquite.
 40.17 (Proportional distance). Set an iron post 3 ft long, 1 ins. in diam., 26 ins. in the ground, for reestablished $\frac{1}{4}$ sec. cor., with a brass cap, marked,
 $\frac{1}{4}$ S 32 in N.,
 S 5, 19 1/3 in S. half;
 dig pits 18x18x12 ins., E. and W. of post, 3 ft. dist., and raise mound of earth $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high, N. of corner.
 40.70 Division fence, bears N. and S.; from this point, house brs. N. $5\frac{1}{2}$ ° W., 15 chs. dist.
 42.70 Wire fence along south edge of lane, brs. N. 89° W., S. 89° E.; thence through lane, along wagon road.
 55.00 O. T Ranch house, brs. S. 3 chs. dist.
 60.00 Leave mesquite brush, brs. N. and S.
 80.34 (Proportional distance.) Set an iron post 3 ft. long, 3 ins. in diam., 24 ins. in the ground for reestablished cor. of secs. 4, 5, 32 and 33, with a brass cap, marked,
 T 13 S in N.,
 T 14 S 19 1/3 in S., and
 R 24 E in W. half;
 S 32 in NW.,
 S 33 in NE.,
 S 4 in SE., and
 S 5 in SW. quadrant;
 dig pits 18x18x12 ins. in each sec. $5\frac{1}{2}$ ft. dist., and raise mound of earth 4 ft. base, 2 ft. high, west of corner.
 Land, level and rolling.
 Soil, loose, red sandy loam, 12 to 18 ins. deep on clay subsoil.
 Scattering grass, mesquite brush, 3 to 8 ft. high.
 No timber.

26. Resurvey of North bdy. of Township 14 South, Range 24 E

Chains	Thence I run, S. 89°57' E., on true line, bet. secs. 4 and 33. Along S. side of lane, 15 lks. N. of S. edge, over level land.
.15	West edge of north and south lane.
.55	Wagon road, brs. north and south, 15 lks. north of south edge, over level land.
1.15	East edge of N. and S. lane.
20.50	Division fence brs. S. from south edge of lane.
40.17	(Proportional distance). Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in the ground for reestablished $\frac{1}{4}$ sec. cor., with a brass cap, marked, $\frac{1}{4}$ S 33 in N., and S 4, 1913 in S. half; dig pits 18x18x12 ins., E. and W. of post, 3 ft. dist., and raise mound of earth $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high, north of cor. From this corner Z. Shannon's house brs. S. 150 lks., and partition fence brs. N. from north edge of lane.
75.00	Mrs. Boon's house, brs. S. 5 chs. dist.
80.20	West edge of north and south lane.
80.34	(Proportional distance). Set an iron post 3 ft. long, 3 ins. in diam., 24 ins. in the ground for reestablished cor. of secs. 3, 4, 33 and 34, with a brass cap, marked, T 13 S in N., T 14 S 1913 in S., and R 24 E in W. half; S 33 in NW., S 34 in NE., S 3 in SE., and S 4 in SW quadrant; dig pits 18x18x12 ins., in each sec. $5\frac{1}{2}$ ft. dist., and raise mound of earth 4 ft. base, 2 ft. high, west of cor. Land, level. Soil, light adobe, 12 ins. deep on hardpan subsoil. Short salt grass. No timber.

	Thence I run, S. 89°57' E., on true line, bet. secs. 3 and 34. Over level land.
.85	SW. cor. of wire fence, brs. N. 50 lks. dist.; thence parallel to and 50 lks. south of wire fence.
30.00	NW. cor. of wire fence, brs. S. 50 lks.; thence through, along center of lane.
36.00	Rev. Bennet's house, brs. S. 5 chs. dist.
40.17	(Proportional distance). Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in the ground, for reestablished $\frac{1}{4}$ sec. cor., with a brass cap, marked, $\frac{1}{4}$ S 34 in N., and S 3, 1913 in S. 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.
60.00	Capt. Harris' house, brs. N. 3 chs. dist.
64.00	Prof. Brennan's house, brs. S. 2 chs. dist.
79.84	West edge of north and south lane.
80.34	(Proportional distance). Set an iron post 3 ft. long, 3 ins. in diam., 24 ins. in the ground, for reestablished cor. of secs. 2, 3, 34 and 35, with a brass cap, marked, T 13 S in N., T 14 S 1913 in S., and R 24 E in W. half; S 34 in NW., S 35 in NE., S 2 in SE., and S 3 in SW quadrant; dig pits 18x18x12 ins., in each sec. $5\frac{1}{2}$ ft. dist., and raise a mound of earth 4 ft. base, 2 ft. high, west of cor. Land, level. Soil adobe, 12 to 18 ins. deep on hardpan subsoil. Short salt grass. No timber.

Resurvey of North bdy. of Township 14 South, Range 24 East. 27.

Chains.

Thence I run,
 S. 89° 57' E. on true line, bet. secs. 2 and 35.
 Over level land.

.50 SW. cor. of wire fence, brs. N. 50 lks.; thence parallel to,
 and 50 lks. S. of wire fence.

20.00 NW. cor. of wire fence, brs. S. 50 lks.; thence along center
 of lane.

38.00 Henry Falconer's house, brs. S. 8 chs. dist.

39.50 NE. cor. of wire fence, brs. S. 50 lks.; thence parallel to
 and 50 lks. south of wire fence.

40.17 (Proportional distance). Set an iron post 3 ft. long, 1 in.
 in diam., 26 ins. in the ground for reestablished $\frac{1}{4}$ sec.
 cor., with a brass cap, marked,
 $\frac{1}{4}$ S 35 in N., and
 S 2, 1913 in S. 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.

Enter scattering mesquite, 3 to 5 ft. high.

79.84 SE. cor. of wire fence, brs. N. 50 lks.

80.34 (Proportional distance.) Set an iron post 3 ft. long, 3 ins.
 in diam., 24 ins. in the ground for reestablished cor.
 of secs. 1, 2, 35 and 36, with a brass cap, marked,
 T 13 S in N.,
 T 14 S 1913 in S., and
 R 24 E in W. half;
 S 35 in NW.,
 S 36 in NE.,
 S 1 in SE., and
 S 2 in SW. quadrant;
 dig pits 18x18x12 ins., in each sec. $5\frac{1}{2}$ ft. dist., and
 raise mound of earth 4 ft. base, 2 ft. high, west of
 cor.

Land, level.
 Soil, adobe, 12 ins. deep on hardpan subsoil.
 Short salt grass.
 Scattering mesquite brush, 3 to 5 ft. high on east half.
 No timber.

Thence I run,
 S. 89° 57' E., on true line, bet. secs. 1 and 36.
 Over level land, through scattering mesquite, 6 to 8 ft.
 high.

.25 NW. cor. of wire fence, brs. S. 30 lks. dist.; thence parallel
 to and 30 lks. north of wire fence.

.50 Pumping plant, brs. S. 1 ch. dist.

8.00 Leave scattering mesquite, brs. N. and S.

22.00 Windmill and reservoir, brs. S. 1 ch. dist.

40.17 (Proportional distance). Set an iron post 3 ft. long, 1
 ins. in diam., 26 ins. in the ground for reestablished
 $\frac{1}{4}$ sec. cor., with a brass cap, marked,
 $\frac{1}{4}$ S 36 in N., and
 S 1, 1913 in S. half;
 dig pits 18x18x12 ins., E. and W. of post, 3 ft. dist.,
 and raise mound of earth $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high, north
 of cor.

Grandstand at Fair Grounds brs. S. 6° E., 20 chs. dist.; also
 partition wire fence, bears S. from this cor.

79.84 NE. cor. of wire fence, brs. S. 30 lks. dist.

80.34 Intersect the cor. of Ts. 13 and 14 S., Rs. 24 and 25 E., re-
 established by me, as hereinbefore described.

Land, level.
 Soil, light adobe, 12 ins. deep on hardpan subsoil.
 Short salt grass.
 Scattering mesquite brush on west end of line.
 No timber.

May 14th, 1913.

28. Resurvey of Exterior of Township 14 South, Range 24 East.

Boundaries of Township 14 South, Range 24 East.
Latitudes, departures, and closing errors.

Line designated.	True bearing.	Dist.	Latitudes.		Departures.		
			N.	S.	E.	W.	
North bdy.,	N. 89° 57' W.	482.04	.42			482.04	
West bdy.,	S. 0° 09' W.	40.00		40.00		.10	
	S. 0° 04' W.	79.92		79.92		.09	
	S. 0° 02' W.	360.90		360.90		.21	
South bdy.,	N. 89° 58' E.	481.75	.28		481.75		
East bdy.,	N. 0° 15' E.	279.44	279.44		1.22		
	N. 0° 10' E.	120.48	120.48		.35		
	N. 0° 05' W.	80.74	80.74			.12	
Convergency,							.45
Totals,			481.36	480.82	483.32	483.01	
			480.82		483.01		
Error in latitude,			0.54				
Error in departure,					0.31		

Retracement of East bdy. of Township 14 South, Range 25 E.

-
- 40.10 May 15th, 1913: At 8h.0m. a.m., l.m.t., I set off 18°50' N. on decl. arc; 32°15' on lat. arc, and determine a meridian with the solar at the original cor. of Ts. 13 and 14 S., Rs. 25 and 26 E. hereinbefore described. Thence I run, South, on random line, bet. secs. 1 and 6. Fall 10 lks. east of original $\frac{1}{4}$ sec. cor., which is a granite stone 6x6x10 ins., loosely set, marked and witnessed as described by the Surveyor General. Therefore, the true return bearing is N. 0° 09' E.
-
- 40.00 Thence I run, South, from $\frac{1}{4}$ sec. cor. on random line, bet. secs. 1 and 6, on south half mile. Make diligent search for original cor. of secs. 1, 6, 7 and 12, which I fail to find; therefore, I continue my random line south.
- 80.00 Make diligent search for original $\frac{1}{4}$ sec. cor., which I fail to find.
- 120.51 Fall 7 lks. west of original cor. of secs. 7, 12, 13 and 18, which is a granite stone 8x8x10 ins., loosely set, marked and witnessed as described by the Surveyor General. Therefore, the true return bearing is N. 0° 02' W.
-
- 40.23 Thence I run, South, on random line, bet. secs. 13 and 18. Intersect the original $\frac{1}{4}$ sec. cor., which is a pine post 4x4x14 ins. above ground, firmly set and marked, as described by the Surveyor General. Therefore, the true return bearing is north.
-

Retracement of East boundary of Township 14 S., R. 25 E. 29.

Chains.

Thence I run,
South, from $\frac{1}{4}$ sec.cor., bet. secs.13 and 18 on south $\frac{1}{2}$
mile.
40.21 Fall 2 lks.east of original cor. of secs.13,18,19 and 24,
which is a pine post 4x4x16 ins. above ground, firmly
set and marked as described by the Surveyor General.
Therefore, the true return bearing is N.0°02' E.

Thence I run,
South, on random line, bet. secs.19 and 24.
40.00 Find pine post 4x4x36 ins., marked for original $\frac{1}{4}$ sec.
cor., lying loose on top of ground, 12 lks.west of line.
No evidence to mark original position for same.
80.00 Make diligent search for original cor. of secs.19,24,25
and 30, which I fail to find; therefore, I continue
my random line south, bet. secs.25 and 30.
120.51 Fall 21 lks.west of original $\frac{1}{4}$ sec.cor., which is a juni-
per post 4x4x16 ins., above ground, firmly set and
marked, as described by the Surveyor General.
Therefore, the true return bearing is N.0° 06' W.

Thence I run,
South, from $\frac{1}{4}$ sec.cor. on random line, bet. secs.25 and
30 on south half mile.
40.37 Fall 3 lks.west of original cor.of secs.25,30,31 and 36,
which is a juniper post 4 ins. in diam., 20 ins. above
ground, firmly set and marked, as described by the
Surveyor General.
Therefore, the true return bearing is N.0° 03' W.

Thence I run,
South, on random line, bet. secs.31 and 36.
40.27 Intersect original $\frac{1}{4}$ sec.cor., which is a decayed post
4x4x14 ins. above ground; marks nearly obliterated.
Therefore, the true return bearing is north.

Thence I run,
South, from $\frac{1}{4}$ sec.cor. on random line, bet. secs.31 and 36
on south $\frac{1}{2}$ mile.
40.04 Fall 5 lks.east of original cor.of Ts.14 and 15 S., Rs.25
and 26 E., hereinbefore described. Therefore, the
true return bearing is N.0°04' E.
At this cor., I set off 18°52' N. on decl.arc, and at 11h.
56m. 12s. a.m., l.m.t., I observe the sun on the meri-
dian, and obtain a reading of 32°09 $\frac{1}{2}$ ' on lat.arc.

Resurvey of East bdy.of Township 14 South, Range 25 East.

The old cor. of Ts. 14 and 15 S.,Rs. 25 and 26 E., previous-
ly described by me, being in a state of dilapidation,
I destroy all trace of same, 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 cor.of Ts.14 and 15 S.,Rs.25 and 26 E.,
with a brass cap, marked,

T 14 S in N.;
R 26 E in E.;

30. Resurvey of East bdy. of Township 14 South Range 25 East.

Chains.

T 15 S 1913 in S.; and
 R 25 E in west half;
 S 36 in NW.,
 S 31 in NE.,
 S 6 in SE., and
 S 1 in SW. quadrant;
 dig pits 24x24x12 ins. on each line, N., E. and W. 4 ft.,
 and south of post 7 ft. dist., and raise mound of earth
 5 ft. base, 2½ ft. high, south of cor.

Thence I run,
 N.0°04'E., on true line, bet. secs. 1 and 36.
 Over level land, through mesquite brush, 3 to 6 ft. high,
 parallel to and 50 lks. west of wire fence.

19.00 SE. cor. of wire fence, brs. west 50 lks.; thence through
 lane.

21.00 House brs. E. 2 chs. dist.
 40.04 Intersect original ¼ sec. cor., hereinbefore described.
 This cor. being in a state of dilapidation, I destroy
 all trace of same, 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 ¼ sec. cor., with a brass cap, marked,
 ¼ S 36 in W.,
 S 31 in E., and
 1913 in S. half;
 dig pits 18x18x12 ins., N. and S. of post, 3 ft. dist.,
 and raise a mound of earth 3½ ft. base, 1½ ft. high
 west of cor.

Thence I run,
 North, from ¼ sec. cor. on true line, bet. secs. 31 and 36,
 on north half mile.

Through center of lane, along wagon road.

20.30 Dry wash, 10 lks. wide, 1 ft. deep, course S. 60° W.
 40.27 Intersect original cor. of secs. 25, 30, 31 and 36, hereinbe-
 fore described. This old cor. being in a state of di-
 lapidation, I destroy all trace of same, and reestab-
 lish it in the same place as follows:
 Set an iron post 3 ft. long, 3 ins. in diam., 24 ins. in
 the ground, for cor. of secs. 25, 30, 31 and 36, with a
 brass cap, marked,
 T 14 S in N., and
 1913 in S. half;
 R 25 E S 25 in NW.,
 R 26 E S 30 in NE.,
 S 31 in SE., and
 S 36 in SW. quadrant;
 dig pits 18x18x12 ins. in each sec. 5½ ft. dist., and
 raise a mound of earth 4 ft. base, 2 ft. high, west of
 cor.

Land, level.
 Soil, adobe, 12 ins. deep on hardpan subsoil.
 Short salt grass. scattering mesquite brush, 3 to 6 ft.
 high.
 No timber.

Thence I run,
 N.0°03' W., on true line, bet. secs. 25 and 30.
 Over level land, through scattering mesquite brush, 3 to 6
 ft. high, along center of lane.
 The above described cor. is in line with south edge
 of east and west lane.

.50 North edge of east and west lane.
 3.50 Dry wash, 10 lks. wide, 1 ft. deep, course S. 60° W.
 8.50 Dry wash, 10 lks. wide, 1 ft. deep, course S. 60° W.
 17.50 Dry wash, 15 lks. wide, 1 ft. deep, course S. 60° W.
 24.00 Dry wash, 10 lks. wide, 1 ft. deep, course S. 60° W.
 39.00 House brs. east 3 chs. dist.
 40.37 Intersect original ¼ sec. cor. hereinbefore described. This
 cor. being in a state of dilapidation, I destroy all

Resurvey of East bdy. of Township 14 South, Range 25 East. 31.

Chains.

15.00
 34.00
 39.50
 40.00
 40.17

.50
 13.00
 19.00
 40.17

53.50
 60.25
 67.00
 70.50
 79.80
 80.34

trace of same, 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 $\frac{1}{4}$ sec. cor., with a brass cap, marked,
 $\frac{1}{4}$ S 25 in W.,
 S 30 in E., and
 19 1/3 in S. half;
 dig pits 18x18x12 ins., N. and S. of post, 3 ft. dist., and raise mound of earth $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high, west of corner.
 NE. cor. of wire fence, brs. W. 50 lks.
 Thence I run,
 N. 0° 06' W., on true line, bet. secs. 25 and 30, on north $\frac{1}{2}$ mile, along wagon road.
 Dry wash, 15 lks. wide, course S. 60° W.
 Dry wash, 5 lks. wide, 1 ft. deep, course west.
 NW. cor. of wire fence, brs. east 50 lks. dist.
 Wagon road, Willcox to Dos Cabezas, brs. E. and W. (Proportional distance). Set an iron post 3 ft. long, 3 ins. in diam., 24 ins. in the ground, for reestablished cor. of secs. 19, 24, 25 and 30, with a brass cap, marked,
 T 14 S in N., and
 19 1/3 in S. half;
 R 25 E S 24 in NW.,
 R 26 E S 19 in NE.,
 S 30 in SE., and
 S 25 in SW. quadrant;
 dig pits 18x18x12 ins. in each sec. $5\frac{1}{2}$ ft. dist., and raise mound of earth 4 ft. base, 2 ft. high, west of cor. Land, level.
 Soil, adobe, 12 ins. deep on hardpan subsoil.
 Scattering short grass, scattering mesquite brush, 3 to 6 ft. high.
 No timber.

Thence I run,
 N. 0° 06' W., on true line, bet. secs. 19 and 24.
 Over level land, through scattering mesquite brush, 3 to 6 ft. high.
 Wire fence, brs. E. and W.; thence through pasture.
 House brs. west 5 chs. dist.
 Dry wash, 10 lks. wide, course S. 60° W.
 (Proportional distance.) Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in the ground for reestablished $\frac{1}{4}$ sec. cor., with a brass cap, marked,
 $\frac{1}{4}$ S 24 in W.,
 S 19 in E., and
 19 1/3 in S. half;
 dig pits 18x18x12 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, west of corner.
 SE. cor. of wire fence, brs. E. 50 lks. dist.; also house brs. N. 36° E.
 House brs. S. 86° E.
 Wire fence brs. E. and W.; thence through lane.
 Dry wash, 10 lks. wide, course west.
 Dry wash, 10 lks. wide, 1 ft. deep, course west.
 Wire fence, brs. E. and W.
 Intersect original cor. of secs. 13, 18, 19 and 24, hereinbefore described. This old cor. being in a state of dilapidation, I destroy all trace of same, 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 cor. of secs. 13, 18, 19 and 24, with a brass cap, marked,
 T 14 S in N., and
 19 1/3 in S. half;
 R 25 E S 13 in NW.,

32. Resurvey of East bdy. of Township 14 South Range 25 East.

Chains.

R 26 E S 18 in NE.,
S 19 in SE., and
S 24 in SW quadrant;

dig pits 18x18x12 ins. in each sec. $5\frac{1}{2}$ ft. dist., and
raise a mound of earth 4 ft. base, 2 ft. high, west of
cor.

Land, level.

Soil, adobe, 12 to 18 ins. deep on hardpan subsoil.

Short grass, mesquite brush, 3 to 6 ft. high.

No timber.

Thence I run, on true line, bet. secs. 13 and 18.

N $0^{\circ}02'$ E., over level land, through mesquite brush, 3 to
6 ft. high, parallel to and 50 lks. east of wire fence.

.20 Wagon road brs. E. and W.

.50 Wire fence, brs. E. and W.

14.00 Dry wash, 5 lks. wide, 1 ft. deep, course S. 60° W.

22.00 Dry wash, 5 lks. wide, 1 ft. deep, course S. 60° W.

40.21 Intersect original $\frac{1}{4}$ sec. cor. hereinbefore described. This
old cor. being in a state of dilapidation, I destroy
all trace of same, 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 $\frac{1}{4}$ sec. cor., with a brass cap, marked,

$\frac{1}{4}$ S 13 in W.,
S 18 in E., and
1913 in S. half;

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

Thence I run,

North, on true line, bet. secs. 13 and 18, on N. $\frac{1}{2}$ mile.

25.50 Dry wash, 5 lks. wide, 1 ft. deep, course S. 60° W.

29.50 Dry wash, 5 lks. wide, 2 ft. deep, course west.

40.23 Intersect original cor. of secs. 7, 12, 13 and 18, hereinbe-
fore described. This old cor. being in a state of di-
lapidation, I destroy all trace of same, 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 cor. of secs. 7, 12, 13 and 18, with a
brass cap, marked,

T 14 S in N., and
1913 in S. half;

R 25 E S 12 in NW.,

R 26 E S 7 in NE.,

S 18 in SE., and

S 13 in SW. quadrant;

dig pits 18x18x12 ins.; in each sec. $5\frac{1}{2}$ ft. dist., and
raise a mound of earth 4 ft. base, 2 ft. high, west of
corner.

Land, level.

Soil adobe, 12 ins. deep on hardpan subsoil.

Scattering short grass, mesquite brush, 3 to 6 ft. high.

No timber.

Thence I run,

N. $0^{\circ}02'$ W., on true line, bet. secs. 7 and 12.

Over level land, through mesquite 3 to 6 ft. high.

.05 Wagon road brs. E. and W.

.50 Wire fence, brs. E. and W., thence parallel to and 50 lks.
east of wire fence.

40.17 (Proportional distance.) Set an iron post 3 ft. long, 1
in in diam., 26 ins. in the ground, for reestabl $\frac{1}{4}$
sec. cor., with a brass cap, marked,

$\frac{1}{4}$ S 12 in W.,

S 7 in E., and

1913 in S. half;

Resurvey of East bdy. of Township 14 South, Range 25 East. 33.

Chains.

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

40.50 Wire fence, brs. E. and W.
 59.00 NW. cor. of wire fence, brs. W. 50 lks.; fence continues east.
 79.85 Wire fence brs. E. and W.
 80.00 Wagon road brs. E. and W.
 80.34 (Proportional distance). Set an iron post 3 ft. long, 3 ins. in diam., 24 ins. in the ground for reestablished cor. of secs. 1, 6, 7 and 12, with a brass cap, marked, T 14 S in N., and 1913 in S. half; R 25 E S 1 in NW., R 26 E S 6 in NE., S 7 in SE., and S 12 in SW. quadrant;

dig pits 18x18x12 ins., in each sec. $5\frac{1}{2}$ ft. dist., and raise a mound of earth 4 ft. base, 2 ft. high, west of corner.
 Land, level.
 Soil adobe, 12 to 18 ins. deep on hardpan subsoil.
 Scattering grass, mesquite brush, 3 to 6 ft. high.
 No timber.

40.17 Thence I run, N. $0^{\circ}02'$ W., on true line, bet. secs. 1 and 6. Over slightly rolling, sandy land, through scattering mesquite and sage brush, 2 to 6 ft. high. Intersect original $\frac{1}{4}$ sec. cor., hereinbefore described. This old cor. being in a state of dilapidation, I destroy all trace of same, 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 $\frac{1}{4}$ sec. cor., with a brass cap, marked, $\frac{1}{4}$ S 1 in W., S 6 in E., and 1913 in S. half;
 dig pits 18x18x12 ins., N. and S. of post, 3 ft. dist., and raise mound of earth $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high, W. of corner.

4.00 Thence I run, N. $0^{\circ}09'$ E. on true line, bet. secs. 1 and 6, on N. $\frac{1}{2}$ mile.
 27.50 Wagon road, brs. E. and W.
 40.10 Dry wash, 15 lks. wide, 2 ft. deep, course W.
 Intersect original cor. of Ts. 13 and 14 S, Rs. 25 and 26, E., hereinbefore described.
 Land, level and rolling.
 Soil, sandy 24 ins. deep, fine texture.
 Scattering grass, mesquite and sage brush, 1 to 6 ft. high.
 No timber.

May 15th, 1913.

Resurvey of South bdy. of Township 14 South, Range 25 East.

May 16th, 1913: At 7h. 30m., a.m., l.m.t., I set off $19^{\circ}04'$ N. on decl. arc; $32^{\circ}09\frac{1}{2}'$ on lat. arc, and determine a meridian with the solar at the cor. of Ts. 14 and 15 S., Rs. 25 and 26 E., reestablished by me, as hereinbefore described.

26.50 Thence I run, West, on true line, bet. secs. 1 and 36.
 29.00 Over level land, through mesquite brush, 4 to 7 ft. high.
 32.00 Wagon road, brs. N. 60° E., S. 60° W.
 Wire fence, brs. N. 60° E., S. 60° W.
 Wire fence, brs. N. 15° E., S. 15° W.; from this point, windmill and reservoir brs. S. 2 chs. dist.

34. Resurvey of South bdy. of Township 14 South, Range 25 E.

Chains.	
40.12	<p>Intersect original $\frac{1}{4}$ sec. cor. hereinbefore described. This old cor. being in a state of dilapidation, I destroy all trace of same, and reestablished it in the same place as follows:</p> <p>Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in the ground for $\frac{1}{4}$ sec. cor., with a brass cap, marked, $\frac{1}{4}$ S 36 in N.; and S 1 1913 in S. half;</p> <p>dig pits 18x18x12 ins., E and W. of post, 3 ft. dist., and raise mound of earth $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high, N. of cor.</p> <p>Corner of wire fence brs. S. 3 lks. dist.; fence brs. W. and S. 60° E.</p> <p>Thence I run, N. $89^\circ 57'$ W. on true line, bet. secs. 1 and 36, on west $\frac{1}{2}$ mile.</p> <p>Over level land; along fence line; leave scattering mesquite brush.</p>
39.75	Wire fence, turns north; thence across lane.
40.22	<p>(Proportional distance). Set an iron post 3 ft. long, 3 ins. in diam., 24 ins. in the ground for reestab. cor. of secs. 1, 2, 35 and 36, with a brass cap, marked,</p> <p>T 14 S in N., R 25 E in W., and T 15 S 1913 in S. half; S 35 in NW., S 36 in NE., S 1 in SE., and S 2 in SW. quadrant;</p> <p>dig pits 18x18x12 ins. in each sec. $5\frac{1}{2}$ ft. dist., and raise mound of earth 4 ft. base, 2 ft. high, west of corner.</p> <p>Land, level. Soil, adobe, 12 ins. deep on hardpan subsoil. Short salt grass, mesquite brush, 3 to 6 ft. high on E. half. No timber.</p>
	Thence I run,
	N. $89^\circ 57'$ W. on true line, bet. secs. 2 and 35.
	Over level prairie land.
.25	SE. cor. of wire fence, brs. N. 5 lks.; thence parallel to and 5 lks. S. of wire fence.
20.00	SW. cor. of wire fence, brs. N. 6 lks.
25.00	Small alkali spring, brs. N. 1 ch. dist.
26.00	Small spring branch stream 2 ft. wide, 2 ins. deep, course S. 80° W.
37.00	Dry wash, 15 lks. wide, 2 ft. deep, course S. 15° W.
40.22	<p>Intersect original $\frac{1}{4}$ sec. cor. hereinbefore described. This old cor. being in a state of dilapidation, I destroy all trace of same, and reestablish it in the same place as follows:</p> <p>Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in the ground, for $\frac{1}{4}$ sec. cor., with a brass cap, marked, $\frac{1}{4}$ S 35 in N., and S 2 1913 in S. half;</p> <p>dig pits 18x18x12 ins., E and W. of post 3 ft. dist., and raise mound of earth $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high, N. of cor.</p> <p>Thence I run, N. $89^\circ 58'$ W., on true line, bet. secs. 2 and 35 on west $\frac{1}{2}$ mile.</p>
3.03	Enter dry bed of old alkali lake, brs. N. and S.
40.20	<p>Intersect original cor. of secs. 2, 3, 34 and 35 hereinbefore described. This old cor. being in a state of dilapidation, I destroy all trace of same, and reestablish it in the same place, as follows:</p> <p>Set an iron post 3 ft. long, 3 ins. in diam., 24 ins. in</p>

Resurvey of South hdy. of Township 14 South, Range 25 East. 35

Chains.

ground for cor. of secs. 2, 3, 34 and 35, with a brass cap, marked,

- T 14 S in N.,
- R 25 E in W., and
- T 15 S 1913 in S. half;
- S 34 in NW.,
- S 33 in NE.,
- S 2 in SE., and
- S 3 in SW quadrant;

dig pits 18x18x12 ins., in each sec. 5 1/2 ft dist., and raise mound of earth 4 ft. base, 2 ft. high, west of cor.

Land, level and rolling.
Soil, east half, adobe, 12 ins. deep on hardpan subsoil. Short saltgrass.
West half, soil strong alkali, entirely barren of vegetation.
No timber.

Thence I run, N. 89° 47' W., on true line, bet. secs. 3 and 34.
Over dry alkali lake bed.

4.50
40.12

Wagon road, brs. N. and S.
(Proportional distance.) Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in the ground for reestablish. cor., with a brass cap, marked,

- 1/4 S 34 in N., and
- S 3, 1913 in S. half;

dig pits 18x18x12 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, north of cor.

44.00
80.24

Wagon road, brs. N. 15° E., S. 15° W.
(Proportional distance.) Set an iron post 3 ft. long, 3 ins. in diam., 24 ins. in the ground, for reestablish. cor. of secs. 3, 4, 33 and 34, with a brass cap, marked,

- T 14 S in N.,
- T 15 S 1913 in S., and
- R 25 E in W. half;
- S 33 in NW.,
- S 34 in NE.,
- S 3 in SE., and
- S 4 in SW quadrant;

dig pits 18x18x12 ins., in each sec. 5 1/2 ft. dist., and raise mound of earth, 4 ft. base, 2 ft. high, west of cor.

Land, level.
Soil, alkali; no vegetation.

Thence I run, N. 89° 47' W. on true line, bet. secs. 4 and 33.
Over dry alkali lake bed.

40.12

(Proportional distance.) Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in the ground for reestablish. cor., with a brass cap, marked,

- 1/4 S 33 in N., and
- S 4 1913 in S. half;

dig pits 18x18x12 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.

80.24

(Proportional distance.) Set an iron post 3 ft. long, 3 ins. in diam., 24 ins. in ground, for reestablish. cor. of secs. 4, 5, 32 and 33, with a brass cap, marked,

- T 14 S in N.,
- R 25 E in W., and
- T 15 S 1913 in S. half;
- S 32 in NW.,
- S 33 in NE.,
- S 4 in SE., and
- S 5 in SW. quadrant;

36. Resurvey of South bdy. of Township 14 South, Range 25 East.

Chains.

dig pits 18x18x12 ins. in each sec. $5\frac{1}{2}$ ft. dist., and raise mound of earth 4 ft. base, 2 ft. high, west of cor.

Land, level.

Soil, alkali.

No vegetation.

Thence I run,

N. $89^{\circ}47'$ W. on true line, bet. secs. 5 and 32.

Over dry alkali lake bed.

40.12

(Proportional distance). Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in the ground for reestablished $\frac{1}{4}$ sec. cor. with a brass cap, marked,

 $\frac{1}{4}$ S 32 in N., and

S 5, 1913 in S. half;

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

80.24

(Proportional distance). Set an iron post, 3 ft. long, 3 ins. in diam., 24 ins. in the ground, for reestablished cor. of secs. 5, 6, 31 and 32, with a brass cap, marked,

T 14 S in N.,

T 15 S 1913 in S., and

R 25 E in W. half;

S 31 in NW.,

S 32 in NE.,

S 5 in SE., and

S 6 in SW. quadrant;

dig pits 18x18x12 ins., in each sec. $5\frac{1}{2}$ ft. dist., and raise mound of earth 4 ft. base, 2 ft. high, west of corner.

Land, level.

Soil, alkali; no vegetation.

Thence I run,

N. $89^{\circ}47'$ W., on true line, bet. secs. 6 and 31.

Over dry bed of alkali lake.

40.12

(Proportional distance). Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in the ground, for reestablished $\frac{1}{4}$ sec. cor., with a brass cap, marked,

 $\frac{1}{4}$ S 31 in N.,

S 6 1913 in S. half;

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

79.34

(Proportional distance). Set an iron post 3 ft. long, 3 ins. in diam., 24 ins. in the ground for reestablished cor. of Ts. 14 and 15 S., Rs. 24 and 25 E., with a brass cap, marked,

T 14 S in N.,

R 25 E in E.,

T 15 S 1913 in S., and

R 24 E in W. half;

S 36 in NW.,

S 31 in NE.,

S 6 in SE., and

S 1 in SW. quadrant;

dig pits 24x24x12 ins. on each line, N., E. and W. 4 ft. and S. of post 8 ft. dist., and raise mound of earth 5 ft. base, $2\frac{1}{2}$ ft. high, south of cor.

Land, level.

Soil, alkali; no vegetation.

Resurvey of West bdy. of Township 14 South, Range 25 East. 37.

Chains.

At the above described cor., I set off 19°06' N. on decl. arc; and at 11h. 56m. 12s. a.m., l.m.t., I observe the sun on the meridian, and obtain a reading of 32°09½' on lat. arc.

Thence I run, N. 0°15' E., on true line, bet. secs. 31 and 36.

Over dry bed of alkali lake.

39.92 (Proportional distance). Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in the ground for reestablished ¼ sec. cor., with a brass cap, marked, ¼ S 36 in W., S 31 in E., and 1913 in S. half;

dig pits 18x18x12 ins., N. and S. of post 3 ft. dist., and raise mound of earth 3½ ft. base, 1½ ft. high, W. of cor.

79.84 (Proportional distance). Set an iron post 3 ft. long, 3 ins. in diam., 24 ins. in the ground, for reestablished cor. of secs. 25, 30, 31 and 36, with a brass cap, marked,

T 14 S in N., and 1913 in S. half; R 24 E S 25 in NW., R 25 E S 30 in NE., S 31 in SE., and S 36 in SW. quadrant;

dig pits 18x18x12 ins., in each sec. 5½ ft. dist., and raise mound of earth 4 ft. base, 2 ft. high, west of cor.

Land, level.
Soil, alkali.
No vegetation.

Thence I run, N. 0°15' E., on true line, bet. secs. 25 and 30.

Over dry bed of alkali lake.

39.92 (Proportional distance.) Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in the ground for reestablished ¼ sec. cor., with a brass cap, marked, ¼ S 25 in W., S 30 in E., and 1913 in S. half;

dig pits 18x18x12 ins., N. and S. of post, 3 ft. dist., and raise mound of earth 3½ ft. base, 1½ ft. high, west of cor.

79.84 (Proportional distance). Set an iron post 3 ft. long, 3 ins. in diam., 24 ins. in the ground for reestablished cor. of secs. 19, 24, 25 and 30, with a brass cap, marked,

T 14 S in N., and 1913 in S. half; R 24 E S 24 in NW., R 25 E S 19 in NE., S 30 in SE., and S 25 in SW. quadrant;

dig pits 18x18x12 ins., in each sec. 5½ ft. dist., and raise mound of earth 4 ft. base, 2 ft. high, W. of cor.

Land, level.
Soil, alkali.
No vegetation.

Thence I run, N. 0°15' E. on true line, bet. secs. 19 and 24.

Over dry bed of alkali lake.

5.00 Leave dry bed of alkali lake, brs. E. and W.; thence over windbuilt sand ridge, 15 ft. high.

10.00 Enter dry bed of small alkali lake, brs. E. 5 chs. and W. 7 chs. dist.

20.00 Leave dry bed of small alkali lake, brs. E. and W.; thence

38. Resurvey of West bdy. of Township 14 South Range 25 East.

Chains.	
39.92	<p>over rolling windbuilt sand ridges 10 to 15 ft. high. (Proportional distance). Set an iron post 3 ft. long, 1 in in diam., 26 ins. in the ground for reestablished $\frac{1}{4}$ sec. cor., with a brass cap, marked, $\frac{1}{4}$ S 24 in W., S 19 in E., and 1913 in S. half; dig pits 18x18x12 ins., N. and S. of post, 3 ft. dist., and raise mound of earth $3\frac{1}{2}$ ft. base; $1\frac{1}{2}$ ft. high, west of cor.</p>
79.84	<p>Thence over slightly rolling prairie land. (Proportional distance). Set an iron post 3 ft. long, 3 ins. in diam., 24 ins. in the ground for reestablished cor. of secs. 13, 18, 19 and 24, with a brass cap, marked, T 14 S in N., and 1913 in S. half; R 24 E S 13 in NW., R 25 E S 18 in NE., S 19 in SE., and S 24 in SW. quadrant; dig pits 18x18x12 ins., in each sec. $5\frac{1}{2}$ ft. dist., and raise a mound of earth 4 ft. base, 2 ft. high, west of corner. Land, level and rolling. Soil, light, alkali. Short salt grass. No timber.</p>
39.92	<p>Thence I run, N. $0^{\circ}15'$ E., on true line, bet. secs. 13 and 18. Over slightly rolling prairie land. Intersect the point for original $\frac{1}{4}$ sec. cor., hereinbefore described. This old cor. being in a state of dilapidation, I destroy all trace of same, 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 $\frac{1}{4}$ sec. cor., with a brass cap, marked, $\frac{1}{4}$ S 13 in W., S 18 in E., and 1913 in S. half; dig pits 18x18x12 ins., N and S. of post, 3 ft. dist., and raise mound of earth $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high, west of corner. From the above described cor., SE. cor. of wire fence brs. west 50 lks. Thence I run, N. $0^{\circ}10'$ E., on true line, bet. secs. 13 and 18, on north $\frac{1}{2}$ mile. Over slightly rolling prairie land, parallel to and 50 lks. east of wire fence. 20.00 Wire fence, brs. E. and W.; thence through center of lane. 36.00 Lock's house, brs. E. 2 chs. dist. 40.16 (Proportional distance). Set an iron post 3 ft. long, 3 ins. in diam., 24 ins. in the ground for reestablished cor. of secs. 7, 12, 13 and 18, with a brass cap, marked, T 14 S in N., and 1913 in S. half; R 24 E S 12 in NW., R 25 E S 7 in NE., S 18 in SE., and S 13 in SW. quadrant; dig pits 18x18x12 ins., in each sec. $5\frac{1}{2}$ ft. dist., and raise mound of earth 4 ft. base, 2 ft. high, west of cor. Land, level and rolling. Light, alkali soil, with windbuilt sand ridges. Short salt grass. No timber.</p>

Resurvey of West bdy. of Township 14 S., Range 25 East. 39.

Chains.

Thence I run,
 N.0°10'E., on true line, bet. secs.7 and 12.
 Over level prairie land, along center of lane.
 38.00 Lowdermilk's house brs.west 2 chs.dist.
 40.16 (Proportional distance.) Set an iron post, 3 ft.long,
 1 in. in diam., 26 ins. in the ground, for reestablished
 $\frac{1}{4}$ sec.cor., with a brass cap, marked,
 $\frac{1}{4}$ S 12 in W.,
 S 7 in E., and
 1913 in S.half;
 dig pits 18x18x12 ins., N.and S. of post, 3 ft. dist.,
 and raise mound of earth $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high, west
 of cor.
 54.00 House brs.east 3 chs.dist.
 66.00 R.R.Right-of-way fence, brs.N.30°E., and S.30°W.
 67.50 Main line Southern Pacific RR., brs.N.30°E., S.30°W.
 68.25 Telegraph line parallel to R.R.
 69.00 R.R.right-of-way fence, parallel to R.R.
 75.00 Wagon road brs.N.and S. 15° W.; thence along wagon road.
 80.32 (Proportional distance.) Set an iron post 3 ft. long,
 3 ins. in diam., 24 ins. in the ground for reestab.
 cor.of secs. 1,6,7 and 12, with a brass cap, marked,
 T 14 S in N., and
 1913 in S. half;
 R 24 E S 1 in NW.,
 R 25 E S 6 in NE.,
 S 7 in SE., and
 S 12 in SW. quadrant;
 dig pits 18x18x12 ins. in each sec. $5\frac{1}{2}$ ft. dist.,and
 raise mound of earth 4 ft.base, 2 ft.high, west of
 corner.
 Land, level.
 Soil, adobe, 12 ins. deep on hardpan subsoil.
 Short salt grass.
 No timber.

Thence I run,
 N.0°05' W., on true line, bet. secs.1 and 6.
 Over level prairie land.
 From the above described cor., the SE. cor.of wire fence,
 brs.NW. 50 lks.; and NW. cor.of wire fence brs.E.70
 lks.;thence parallel to and 30 lks. E.of wire fence.
 21.00 House brs.west 2 chs.dist.
 40.16 (Proportional distance). Set an iron post 3 ft.long, 1 in.
 in diam., 26 ins. in the ground for reestablished $\frac{1}{4}$ sec.
 cor., with a brass cap, marked,
 $\frac{1}{4}$ S 1 in W.,
 S 6 in E., and
 1913 in S.half;
 dig pits 18x18x12 ins., N.and S. of post, 3 ft. dist.,
 and raise mound of earth $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high,west
 of cor.
 42.00 Lane, 50 lks.wide, runs west to Fair Grounds.
 70.00 House brs.west 150 lks.dist.
 79.50 House brs.west 1 ch.
 80.74 Intersect cor.of Ts.13 and 14 S., Rs.24 and 25 E., reestab-
 lished by me as hereinbefore described.
 Land, level.
 Soil, adobe, 12 ins.deep, on hardpan subsoil.
 Short salt grass.
 No timber.

May 16th, 1913.

40. ~~Resurvey of West boundary of Township 14 South, Range 25 E.~~

Chains.

Boundaries of Township 14 South, Range 25 E.
Latitudes, departures, and closing errors.

Line designated.	True bearing.	Dist.	Latitudes.		Departures.	
			N.	S.	E.	W.
N. bdy.,	N. 89°50' W.	160.88	0.46			160.88
	N. 89°54' W.	40.16	0.07			40.16
	S. 89°48' W.	40.00		0.14		40.00
	N. 89°57' W.	40.06	0.04			40.06
	S. 89°59' W.	197.95		0.05		197.95
W. bdy.,	S. 0°01' E.	80.74		80.74	0.03	
	S. 0°08' W.	120.48		120.48		0.27
	S. 0°15' W.	279.44		279.44		1.22
S. bdy.,	S. 89°47' E.	320.06		1.21	320.06	
	S. 89°58' E.	40.20		0.02	40.20	
	S. 89°57' E.	80.44		0.07	80.44	
	East,	40.12			40.12	
E. bdy.	N. 0° 04' E.	40.04	40.04		0.05	
	North,	40.27	40.27			
	N. 0°03' W.	40.37	40.37			0.03
	N. 0°06' W.	120.51	120.51			0.21
	N. 0° 02' E.	40.21	40.21		0.02	
	North,	40.23	40.23			
	N. 0°02' W.	120.51	120.51			0.07
N. 0°09' E.	40.10	40.10		0.10		
Convergency,						0.45
Totals,			482.81	482.15	481.02	481.30
			482.15			481.02
Error in latitude,			0.66			
Error in departure,					0.28	

Resurvey of East boundary of Township 15 South, Range 24 E.

May 17th, 1913:

At the cor. of Ts. 14 and 15 S., Rs. 24 and 25 E., reestablished by me, as hereinbefore described, I set off 19° 20' N. on decl. arc, and at 1h. 56m. 13s., a.m., l.m.t., observe the sun on the meridian, and obtain a reading of 32° 09½' on lat. arc.

Thence I run, S. 0°13' W. on true line, bet. secs. 1 and 6. Over dry bed of old alkali lake.

39.92 (Proportional distance). Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in the ground for reestablished ¼ sec. cor., with a brass cap, marked, ¼ S 1 in W., S 6 in E., and 1913 in S. half;

dig pits 18x18x12 ins. N. and S. of post 3 ft. dist., and raise mound of earth 3½ ft. base, 1½ ft. high, west of cor.

79.84 (Proportional distance). Set an iron post 3 ft. long, 3 ins. in diam., 24 ins. in the ground for reestablished cor. of secs. 1, 6, 7 and 12, with a brass cap, marked, T 15 S in N., & 1913 in S. half, R. 24 E S 1 in NW., R 25 E S 6 in NE., S 7 in SE. & S 12 in SW. quad. Dig pits 18x18x12 ins. in each sec. 5½ ft. dist. & raise mound of earth 4 ft. base, 2 ft. high, west of cor. Land level. Soil, alkali. No vegetation.

Thence I run, S. 0°13' W. on true line, bet. secs. 7 & 12.

Over dry bed of old alkali lake.

39.92 (Proportional dist.) Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in the ground, for reestablished ¼ sec. cor., with a

Resurvey of East boundary of Township 15 South, Range 24 E. 41.

- Chains. brass cap, marked, $\frac{1}{4}$ S 12 in W., S 7 in E. & 1913 in S. half; dig pits 18x18x12 ins. N. & S. of post 3 ft. dist. & raise mound of earth, $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high, W. of cor.
- 79.84 (Proportional dist.) Set an iron post, 3 ft. long, 3 ins. in diam. No 24 in the ground for reestab. cor. of secs. 7, 12, 13 & 18, with a brass cap, marked, T 15 S in N. & 1913 in S. half, R 24 E S 12 in NW., R 25 E S 7 in NE., S 18 in SE. & S 13 in SW. quad. Dig pits 18x18x12 ins. in each sec. $5\frac{1}{2}$ ft. dist. & raise mound of earth 4 ft. base, 2 ft. high, west of cor. Land; level; Soil; alkali. No vegetation.
- 39.92 (Proportional dist.) Thence I run, S $0^{\circ}13'$ W., on true line, bet. secs. 13 & 18. Over dry bed of old alkali lake. Set an iron post, 3 ft. long, 1 in. in diam. 26 ins. in ground, for reestab. $\frac{1}{4}$ sec. cor., with a brass cap, marked, $\frac{1}{4}$ S 13 in W., S 18 in E. & 1913 in S. half; dig pits 18x18x12 ins., N. and S. of post 3 ft. dist., and raise mound of earth $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high, west of corner.
- 79.84 (Proportional distance). Set an iron post 3 ft. long, 3 ins. in diam., 24 ins. in the ground, for reestablished cor. of secs. 13, 18, 19 and 24, with a brass cap, marked, T 15 S in N., and 1913 in S. half; R 24 E S 13 in NW., R 25 E S 18 in NE., S 19 in SE., and S 24 in SW. quadrant; dig pits 18x18x12 ins., in each sec. $5\frac{1}{2}$ ft. dist., and raise mound of earth 4 ft. base, 2 ft. high, west of cor. Land, level. Soil, alkali. No vegetation.
- 6.00 Wagon road, brs. E. and W.
- 39.92 (Proportional distance). Thence I run, S $0^{\circ}13'$ W., on true line, bet. secs. 19 and 24. Over dry bed of old alkali lake. Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in the ground, for reestab. $\frac{1}{4}$ sec. cor., with a brass cap, marked, $\frac{1}{4}$ S 24 in W., S 19 in E., and 1913 in S. half; dig pits 18x18x12 ins., N. and S. of post, 3 ft. dist., and raise mound of earth $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high, west of cor.
- 79.84 (Proportional distance.) Set an iron post 3 ft. long, 3 ins. in diam., 24 ins. in the ground for reestablished cor. of secs. 19, 24, 25 and 30, with a brass cap, marked, T 15 S in N., and 1913 in S. half; R 24 E S 24 in NW., R 25 E S 19 in NE., S 30 in SE., and S 25 in SW. quadrant; dig pits 18x18x12 ins. in each sec. $5\frac{1}{2}$ ft. dist., and raise mound of earth 4 ft. base, 2 ft. high, west of cor. Land, level. Soil, alkali. No vegetation.
- 10.00 Thence I run, S $0^{\circ}13'$ W., on true line, bet. secs. 25 and 30. Over dry bed of old alkali lake. Wagon road brs. E. and W.

42. Resurvey of East boundary of Township 15 S., Range 24 E.

Chains.

- 39.92 (Proportional distance.) Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in the ground for reestablished $\frac{1}{4}$ sec. cor., with a brass cap, marked,
 $\frac{1}{4}$ S 25 in W.,
 S 30 in E., and
 1913 in S. half;
 dig pits 18x18x12 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, west of cor.
- 79.84 (Proportional distance). Set an iron post 3 ft. long, 3 ins. in diam., 24 ins. in the ground for reestablished cor. of secs. 25, 30, 31 and 36, with a brass cap, marked,
 T 15 S in N., and
 1913 in S. half;
 R 24 E S 25 in NW.,
 R 25 E S 30 in NE.,
 S 31 in SE., and
 S 36 in SW. quadrant;
 dig pits 18x18x12 ins., in each sec. $5\frac{1}{2}$ ft. dist., and raise a mound of earth 4 ft. base, 2 ft. high, west of corner.
- Land, level.
 Soil, alkali.
 No vegetation.

- Thence I run,
 S. $0^{\circ}13'$ W., on true line, bet. secs. 31 and 36.
 Over dry bed of old alkali lake.
- 39.92 (Proportional distance). Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in the ground, for reestablished $\frac{1}{4}$ sec. cor., with a brass cap, marked,
 $\frac{1}{4}$ S 36 in W.,
 S 31 in E., and
 1913 in S. half;
 dig pits 18x18x12 ins., N. and S. of post, 3 ft. dist., and raise mound of earth $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high, west of cor.
- 79.84 Intersect standard cor. of Ts, 15 S., Rs. 24 and 25 E. on 3rd Standard Parallel S., reestablished by me, as hereinbefore described.
- Land, level.
 Soil, alkali.
 No vegetation.

May 17th, 1913.

Thomas J. Matthews.

S. Surveyor.

Resurvey of South bdy. of Township 14 South, Range 24 East.

- May 17th, 1913: At 7h. 30m. a.m., l.m.t., I set off $19^{\circ}18'$ N. on decl. arc; $32^{\circ}09\frac{1}{2}'$ on lat. arc, and determine a meridian with the solar at the cor. of Ts. 14 and 15 S., Rs. 24 and 25 E. reestablished by me, as hereinbefore described. The magnetic bearing of the true meridian thus determined is N. $12^{\circ}50'$ W. The angle thus determined gives the magnetic decl. $12^{\circ}50'$ E.
- Thence I run,
 S. $89^{\circ}58'$ W. on true line, bet. secs. 1 and 36.
 Over dry bed of old alkali lake.
- 40.12 (Proportional distance). Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in the ground for reestablished

Resurvey of South bdy. of Township 14 South, Range 24 East. 43.

Chains.

$\frac{1}{4}$ sec. cor., with a brass cap, marked,
 $\frac{1}{4}$ S 36 in N., and
 S 1, 1913 in S. half;
 dig pits 18x18x12 ins., E and W of post $\frac{3}{8}$ ft. dist.,
 and raise mound of earth $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high, north
 of cor.
 80.24 (Proportional distance.) Set an iron post 3 ft. long, 3
 ins. in diam., 24 ins. in the ground for reestablished
 cor. of secs. 1, 2, 35 and 36, with a brass cap, marked,
 T 14 S in N.,
 T 15 S 1913 in S., and
 R 24 E in W. half;
 S 35 in NW.,
 S 36 in NE.,
 S 1 in SE., and
 S 2 in SW. quadrant;
 dig pits 18x18x12 ins., in each sec. $5\frac{1}{2}$ ft. dist., and
 raise mound of earth 4 ft. base, 2 ft. high, west of cor.
 Land, level.
 Soil, alkali.
 No vegetation.

Thence I run,
 S. $89^{\circ}58'$ W., on true line, bet. secs. 2 and 35.
 Over dry bed of old alkali lake.
 40.12 (Proportional distance.) Set an iron post 3 ft. long, 1
 in. in diam., 26 ins. in the ground for reestablished
 $\frac{1}{4}$ sec. cor., with a brass cap, marked,
 $\frac{1}{4}$ S 35 in N.,
 S 2, 1913 in S. half;
 dig pits 18x18x12 ins., E and W of post 3 ft. dist.,
 and raise mound of earth $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high, N.
 of cor.
 80.24 (Proportional distance.) Set an iron post 3 ft. long,
 $\frac{3}{8}$ ins. in diam., 24 ins. in the ground for reestab-
 lished cor. of secs. 2, 3, 34 and 35, with a brass cap,
 marked,
 T 14 S in N.,
 T 15 S 1913 in S., and
 R 24 E in W. half;
 S 34 in NW.,
 S 35 in NE.,
 S 2 in SE., and
 S 3 in SW. quadrant;
 dig pits 18x18x12 ins. in each sec. $5\frac{1}{2}$ ft. dist., and
 raise mound of earth 4 ft. base, 2 ft. high, west of
 corner.
 Land, level.
 Soil, alkali.
 No vegetation.

Thence I run,
 S. $89^{\circ}58'$ W., on true line, bet. secs. 3 and 34.
 Over dry bed of old alkali lake.
 40.12 (Proportional distance.) Set an iron post 3 ft. long, 1
 in. in diam., 26 ins. in the ground for reestablished
 $\frac{1}{4}$ sec. cor., with a brass cap, marked,
 $\frac{1}{4}$ S 34 in N., and
 S 3, 1913 in S. half;
 dig pits 18x18x12 ins., E and W of post, 3 ft. dist.,
 and raise mound of earth, $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high, N.
 of cor.
 61.50 Main line Southern Pacific R.R. brs. N. 30° E., S 30° W.
 62.50 Telegraph line, parallel to R.R.
 65.00 Wagon road parallel to R.R.
 70.00 Telephone line brs. N. 30° E., and S. 30° W.

44. Resurvey of South bdy. of Township 14 South, Range 24 East

Chains.

80.24 (Proportional distance.) Set an iron post 3 ft. long, 3 ins. in diam., 24 ins. in the ground, for reestablished cor. of secs. 3, 4, 33 and 34, with a brass cap, marked,
 T 14 S in N.,
 T 15 S 1913 in S., and
 R 24 E in W. half;
 S 33 in NW.,
 S 34 in NE.,
 S 3 in SE., and
 S 4 in SW. quadrant;
 dig pits 18x18x12 ins., in each sec. $5\frac{1}{2}$ ft. dist., and raise mound of earth 4 ft. base, 2 ft. high, west of cor.
 Land, level.
 Soil, alkali.
 No vegetation.

Thence I run,
 S. $89^{\circ}58'$ W. on true line, bet. secs. 4 and 33.
 Over dry bed of old alkali lake.

40.12 (Proportional distance.) Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in the ground for reestablished $\frac{1}{4}$ sec. cor., with a brass cap, marked,
 $\frac{1}{4}$ S 33 in N., and
 S 4, 1913 in S. 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.

80.24 (Proportional distance.) Set an iron post 3 ft. long, 3 ins. in diam., 24 ins. in the ground, for reestablished cor. of secs. 4, 5, 32 and 33, with a brass cap, marked,
 T 14 S in N.,
 T 15 S 1913 in S., and
 R 24 E in W. half;
 S 32 in NW.,
 S 33 in NE.,
 S 4 in SE., and
 S 5 in SW. quadrant;
 dig pits 18x18x12 ins., in each sec. $5\frac{1}{2}$ ft. dist., and raise mound of earth 4 ft. base, 2 ft. high, west of cor.
 Land, level.
 Soil, alkali.
 No vegetation.

Thence I run,
 S. $89^{\circ}58'$ W., on true line, bet. secs. 5 and 32.
 Over dry bed of old alkali lake.

40.12 (Proportional distance.) Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in the ground, for reestablished $\frac{1}{4}$ sec. cor., with a brass cap, marked,
 $\frac{1}{4}$ S 32 in N., and
 S 5 1913 in S. 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.

80.24 (Proportional distance.) Set an iron post 3 ft. long, 3 ins. in diam., 24 ins. in the ground for reestablished cor. of secs. 5, 6, 31 and 32, with a brass cap, marked,
 T 14 S in N.,
 T 15 S 1913 in S., and
 R 24 E in W. half;
 S 31 in NW.,
 S 32 in NE.,
 S 5 in SE., and

Resurvey of South bdy. of Township 14 South, Range 24 East. 45.

Chains.

S 6 in SW quadrant;
dig pits 18x18x12 ins., in each sec. $5\frac{1}{2}$ ft. dist., and
raise mound of earth, 4 ft. base, 2 ft. high, west of
cor.

Land, level.

Soil, alkali.

No vegetation.

-
- Thence I run,
S. $89^{\circ}58'$ W., on true line, bet. secs. 6 and 31.
Over dry bed of old alkali lake.
- 3.00 Leave dry bed of alkali lake, brs. N. and S.; thence over
slightly rolling prairie land.
- 17.75 Wire fence, brs. N. 30° W., S. 30° E.
- 18.00 Cor. of wire fence, brs. N. 15 lks.; thence parallel to and
15 lks. south of wire fence.
- 40.12 (Proportional distance). Set an iron post 3 ft. long, 1 in.
in diam., 26 ins. in the ground for reestablished $\frac{1}{4}$
sec. cor., with a brass cap, marked,
 $\frac{1}{4}$ S 31 in N., and
S 6, 1913 in S. half;
dig pits 18x18x12 ins. E and W. of post, 3 ft. dist., and
raise mound of earth $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high, N. of
cor.
- Wire fence brs. N. and S.
- 63.00 Dry wash, 25 lks. wide, 3 ft. deep, course south.
- 67.00 Wagon road, brs. N. and S.
- 69.00 Wagon road, brs. N. and S.
- 80.55 Intersect the cor. of Ts. 14 and 15 S., Rs. 23 and 24 E., re-
established by me, as hereinbefore described.
- Land, level and rolling.
Adobe soil, with alkali, 12 ins. deep on hardpan subsoil.
Short salt grass.
Mesquite brush at east end of line.
No timber.

May 17th, 1913.

Resurvey of East bdy. of Township 13 South, Range 25 East.

-
- May 21st, 1913: At 9h.30m. a.m., l.m.t., I set off 20°
 $10'$ N. on decl. arc; $32^{\circ}15'$ on lat. arc, and determine
a meridian with the solar at the original cor. of Ts.
13 and 14 S., Rs. 25 and 26 E., hereinbefore described.
- Thence I run,
North, on random line, bet. secs. 31 and 36.
- 40.07 Fall 5 lks. west of original $\frac{1}{4}$ sec. cor., which is a granite
stone 6x4x6 ins. above ground, firmly set, marked and
witnessed, as described by Surveyor General; destroy
all trace of this old cor., 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 $\frac{1}{4}$ sec. cor., with a brass cap, marked,
 $\frac{1}{4}$ S 36 in W.,
S 31 in E., and
1913 in S. half;
and raise mound of stone 2 ft. base, 2 ft. high, west of
cor. Pits impracticable.
- Thence I run,
S. $0^{\circ}04'$ W., on true line, south half, bet. secs. 31 and 36.
Descending gentle SW slope, through mesquite brush, 3 to
7 ft. high.
- 2.00 Dry sandy wash, 10 lks. wide, 2 ft. deep, course S. 60° W.
- 4.00 Dry wash, 25 lks. wide, 2 ft. deep, course S. 80° W.
- 8.00 Dry wash, 10 lks. wide, 2 ft. deep, course S. 60° W.

46. Resurvey of East boundary of Township 13 South, Range 25 E.

Chains.

15.00 Dry wash, 5 lks. wide, 1 ft. deep, course S. 60° W.
 20.25 Dry wash, 20 lks. wide, 3 ft. deep, course S. 60° W.
 40.07 The original cor. of Ts. 13 and 14 S., Rs. 25 and 26 E.,
 hereinbefore described.
 From the $\frac{1}{4}$ sec. cor., bet. secs. 31 and 36, the original
 cor. of secs. 25, 30, 31 and 36, being plainly visible,
 I run, for said cor. north, on true line, north half,
 bet. secs. 31 and 36.
 Ascending gentle SW. slope, through mesquite brush, 3 to
 7 ft. high.
 5.00 Dry sandy wash, 30 lks. wide, 1 ft. deep, course S. 30° W.
 11.50 Dry wash, 30 lks. wide, 2 ft. deep, course S. 30° W.
 33.00 Dry wash, 10 lks. wide, 1 ft. deep, course west.
 40.16 Intersect the original cor. of secs. 25, 30, 31 and 36,
 which is a basalt stone, 6x4x10 ins., loosely set,
 marked and witnessed as described by the Surveyor
 General. I destroy all trace of this old cor., and
 reestablish it as follows:
 Set an iron post 3 ft. long, 3 ins. in diam., 24 ins. in
 the ground for cor. of secs. 25, 30, 31 and 36, with a
 brass cap, marked,
 T 13 S in N.,
 R 25 E in W.,
 1913 in S., and
 R 26 E in E. half;
 S 25 in NW.,
 S 30 in NE.,
 S 31 in SE., and
 S 36 in SW. quadrant;
 raise a mound of stone 2 $\frac{1}{2}$ ft. base, 2 ft. high, west of
 cor. Pits impracticable.
 Land, slopes to SW.; slightly rolling.
 Soil, loose, sandy loam with gravel, coarse texture 2 ft.
 deep.
 Scattering short grass, mesquite brush, 3 to 7 ft. high.
 No timber.

 Thence I run,
 North, on random line, bet. secs. 25 and 30.
 40. 00 Fall 4 lks. west of original $\frac{1}{4}$ sec. cor., which is a mes-
 quite post, 4 ins. square, 3 ft. long, loosely set in
 mound of stone, marked and witnessed as described by
 Surveyor General. I destroy all trace of this old
 cor., and reestablish it in the same place as follows:
 Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in
 ground for $\frac{1}{4}$ sec. cor., with a brass cap, marked,
 $\frac{1}{4}$ S 25 in W.,
 S 30 in E., and
 1913 in S. half;
 raise a mound of stone 3 ft. base, 2 ft. high, west
 of cor. Pits impracticable.

Thence I run,
 S. 0° 03' W., on true line, south half, bet. secs. 25 and 30.
 Descending gentle SW. slope, through mesquite 3 to 4 ft.
 high.

1.50 Dry wash, 50 lks. wide, 2 ft. deep, course S. 80° W.
 7.00 Dry wash, 30 lks. wide, 18 ft. deep, course west.
 13.00 Dry wash, 50 lks. wide, 2 ft. deep, course S. 60° W.
 23.00 Dry wash, 50 lks. wide, 2 ft. deep, course S. 60° W.
 39.50 Dry wash, 50 lks. wide, 3 ft. deep, course S. 60° W.
 40.00 The cor. of secs. 25, 30, 31 and 36, hereinbefore described.

From the $\frac{1}{4}$ sec. cor., bet. secs. 25 and 30, I run,
 North on random line, north half bet. secs. 25 and 30.
 40.08 Fall 13 lks. west of cor. of secs. 19, 24, 25 and 30, which
 is a malachite stone, 10x10x8 ins., loosely set, marked
 and witnessed as described by the Surveyor General.
 I destroy all trace of this old cor., and reestablish it in
 the same place as follows:
 Set a granite stone 18x8x6 ins., 12 ins. in ground for

Resurvey of East boundary of Township 13 South, Range 25 East. 47.

Chains.

- cor. of secs. 19, 24, 25 and 30, marked with 2 notches on S. & 4 notches on north side; raise mound of stone 3 ft. base, 3 ft. high, west of cor. Pits impracticable.
- Thence I run,
S. 0° 11' W., on true line, north half, bet. secs. 25 and 30.
Along steep rocky west slope of mountain.
- 6.00 Descend SW. slope, 50 ft.
- 11.00 Foot of rocky descent; thence over gentle SW. slope.
- 15.00 Enter scattering mesquite brush, brs. E. and W.
- 17.00 Dry wash, 50 lks. wide, 6 ft. deep, course west.
- 25.00 Dry wash, 30 lks. wide, 2 ft. deep, course S. 60° W.
- 32.00 Dry wash, 30 lks. wide, 3 ft. deep, course west.
- 40.08 The reestablished $\frac{1}{4}$ sec. cor., bet. secs. 25 and 30, hereinbefore described.
- South 69 chs. slightly rolling SW. slope at foot of Dos Cabezas range of mountains.
Soil, loose, sandy loam with loose rock, coarse texture 2 ft. deep.
Short grass, mesquite brush, 3 to 5 ft. high.
No timber.
The north 11 chs. is rough, mountainous, very rocky and thin soil.
No timber.
-
- At the $\frac{1}{4}$ sec. cor., bet. secs. 25 and 30, I set off 20° 11' N. on decl. arc, and at 11h. 56m. 23s. a.m., l.m.t., observe the sun on the meridian and obtain a reading of 32° 16' on lat. arc.
- From the cor. of secs. 19, 24, 25 and 30, hereinbefore described, I run,
North, on random line, bet. secs. 19 and 24.
- 40.00 Make diligent search for original $\frac{1}{4}$ sec. cor., which I fail to find.
- 82.63 Fall 166 lks. E. of original cor. of secs. 13, 18, 19 and 24, which is a granite stone 10x4x8 ins. above ground, firmly set, marked and witnessed as described by the Surveyor General.
- Thence I run,
S. 1° 09' E., on true line, bet. secs. 19 and 24.
Over rough, mountainous land.
Ascending north slope, 150 ft.
- 12.00 Top of ascent, from this point mining cabin, brs. N. 28 $\frac{1}{2}$ ° W., 20 chs. dist.
- Thence along east slope.
- 19.00 Descend 150 ft. in canyon.
- 23.00 Dry wash, 10 lks. wide, course N. 60° E.; thence ascend 150 ft.
- 25.00 Leave canyon, thence over rolling, mountainous land.
- 34.00 Rocky wash, 30 lks. wide, 5 ft. deep, course N. 60° E.
Thence ascend north slope, 600 ft.
- 40.00 Summit of Dos Cabezas ridge, brs. NW. and SE.
- 41.325 Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in ground, for reestablished $\frac{1}{4}$ sec. cor., with a brass cap, marked,
 $\frac{1}{4}$ S 24 on W.,
S 19 on E., and
1913 on S. half; from which,
A juniper tree, 12 ins. in diam., brs. S. 11° W.,
93 lks. dist., marked $\frac{1}{4}$ S 24 B T.
- No more trees in dist.; raise a mound of stone 3 ft. base, 2 $\frac{1}{2}$ ft. high, west of cor. Pits impracticable.
- Thence I descend rocky SW. slope, 1200 ft.
- 70.00 Rocky wash, 30 lks. wide, 10 ft. deep, course S. 30° W.
Thence along rocky W. slope on east of wash.
- 82.65 The reestablished cor. of secs. 19, 24, 25 and 30, hereinbefore described.
- Rough, mountainous land; soil, very rocky; good growth of grass, scattering juniper timber, along top of ridge.

48. Resurvey of East boundary of Township 13 South, Range 25 E

Chains.

From the reestablished cor. of secs. 13, 18, 19 and 24, hereinbefore described, I run,
 North, on random line, bet. secs. 13 and 18.
 39.93 Fall 26 lks. east of original $\frac{1}{4}$ sec. cor., which is a granite stone 8x12x5 ins. above ground, firmly set, marked and witnessed as described by the Surveyor General.
 Thence I run,
 S. $0^{\circ}22'$ E., on true line, south half, bet. secs. 13 and 18.
 8.00 Over rough, mountainous land, ascending NW. slope, 50 ft. Top of ridge, slopes east; descend 100 ft. along SE. slope.
 19.00 Rocky wash, 15 lks. wide, course E.; thence ascend 100 ft.
 25.00 Top of ascent.
 25.50 Wagon road brs. N. 60° E., S. 60° W.
 26.00 Rocky wash, 10 lks. wide, 6 ft. deep, course N. 60° W.
 Thence ascend 75 ft. to cor.
 39.93 The original cor. of secs. 13, 18, 19 and 24, hereinbefore described.

May 21st, 1913.

 May 22nd, 1913: At 8h. 30m. a.m., l.m.t., I set off $20^{\circ}22'$ N. on decl. arc; $32^{\circ}18'$ on lat. arc, and determine a meridian with the solar at the original $\frac{1}{4}$ sec. cor., bet. secs. 13 and 18, hereinbefore described.

Thence I run,
 North on random line, north half, bet. secs. 13 and 18. At
 40.00 Make diligent search for orig. cor. of secs. 7, 12, 13 & 18, which I fail to find; therefore, I continue my random line N. & at
 77.48 Fall 32 lks. E. of point for orig. sec. cor. bet. secs. 7 & 12, which I locate 5 ft. N. of redwood stake in S. pit, marked as described by Surveyor General. I destroy all trace of this old cor., and reestablish it as follows:
 Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in the ground for $\frac{1}{4}$ sec. cor., with a brass cap, marked,
 $\frac{1}{4}$ S 12 in W.,
 S 7 in E., and
 1913 in S. half;
 dig pits 18x18x12 ins., N. and S. of post 3 ft. dist., and raise mound of earth $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high, W. of cor.
 Thence I run,
 S. $0^{\circ}14'$ E., on true line, south half, bet. secs. 7 and 12.
 Ascending gentle north slope, toward Dos Cabezas Mts.,
 5.00 Wagon road brs. E. and W.
 11.00 Dry wash, 10 lks. wide 1 ft. deep, course W.
 16.00 Foot of Dos Cabezas Mts., brs. NE. and SW.
 Thence over rolling, mountainous land.
 22.00 Rocky wash, 10 lks. wide, 1 ft. deep, course N. 30° E.
 Thence ascend 600 ft. along rocky NW. slope to cor.
 38.74 (Proportional distance.) Set a granite stone 20x10x12 ins., 14 ins. in ground for reestablished cor. of secs. 7, 12, 13 and 18, marked
 4 notches on S., and
 2 notches on N. edge; from which,
 An oak, 12 ins. in diam., brs. N. 42° E., 114 lks. dist., marked, T 13 S R 26 E S 7 B T.
 A white oak, 8 ins. in diam., brs. S. 33° E., 197 lks. dist., marked T 13 S R 26 E S 18 B T.
 A white oak 8 ins. in diam., brs. S. $50\frac{1}{2}^{\circ}$ W., 130 lks. dist., marked T 13 S R 25 E S 13 B T.
 A black oak, 6 ins. in diam., brs. N. 89° W., 105 lks. dist., marked, T 13 S R 25 E S 12 B T.
 Impracticable to set an iron post at this point on account of shallow bed-rock.
 N. 16 chs., gentle N. slope, loose, sandy loam,
 Soil, coarse texture, 24 ins. deep.
 Good growth grama-grass, scattering yuccas; no timber.

Resurvey of East boundary of Township 13 South, Range 25 E. 49.

Chains.

S. 23 chs., mountainous. Soil rocky.
Good growth of grass.
Scattering oak timber at south end of line.

Thence I run,
S. 0° 14' E. on true line, north half, bet. secs. 13 and 18.
Ascending steep rocky north slope of mountain, 400 ft.
9.00 Summit of ridge, brs. NE' and SW.; thence descend SE. slope,
300 ft.
18.00 Rocky wash, 50 lks. wide, 3 ft. deep, course east; thence
ascend NW. slope, 200 ft.
25.00 Top of spur, slopes east.
Thence descend SE. slope, 100 ft.
31.00 Rocky wash, 10 lks. wide, 2 ft. deep, course N. 30° E.
Thence ascend N. slope, 75 ft. to cor.
38.74 The original $\frac{1}{4}$ sec. cor., bet. secs. 13 and 18, hereinbefore
described.
Rough, mountainous land, very rocky, thin soil.
Good growth of grass, scattering live oak and juniper tim-
ber.

From the reestablished $\frac{1}{4}$ sec. cor., bet. secs. 7 and 12,
hereinbefore described, the point for orig. cor. of secs.
1, 6, 7 and 12, being plainly visible, I run, for said
cor.
N. 0° 08' E., on true line, north half; bet. secs. 7 and 12.
Over slightly rolling prairie land.
39.98 The point for original cor. of secs. 1, 6, 7 and 12, which
I locate 4 ft. N. 45° W. of redwood stake in SE. pit,
marked as described by Surveyor General. I destroy
all trace of this old cor., and reestablish it as
follows:
Set an iron post 3 ft. long, 3 ins. in diam., 24 ins. in
the ground for cor. of secs. 1, 6, 7 and 12, with a brass
cap, marked,
T 13 S in N.,
R 25 E in W.,
1913 in S., and
R 26 E in E. half;
S 1 in NW.,
S 6 in NE.,
S 7 in SE., and
S 12 in SW. quadrant;
dig pits 18x18x12 ins. in each sec. $5\frac{1}{2}$ ft. dist., and
raise mound of earth 4 ft. base, 2 ft. high, west of
cor.
Land, slightly rolling, loose, sandy loam, 24 ins. deep.
Good growth of grama-grass, scattering yuccas, 4 to 10 ft.
high.
No timber.

From the above described cor., the original $\frac{1}{4}$ sec. cor. bet.
secs. 1 and 6, being plainly visible, I run,
N. 0° 40' W., for said cor. on true line, bet. secs. 1 and 6.
Over slightly rolling prairie land.
12.00 Dry wash, 3 lks. wide, 1 ft. deep, course NE.; thence as-
cend SE. slope, 60 ft. high.
38.00 Top of ascent.
39.65 Intersect original $\frac{1}{4}$ sec. cor., which is a granite stone,
10x8x5 ins. loosely set, marked as described by Sur-
veyor General. I destroy all trace of this old cor.
and reestablish it in the same place as follows:

50. Resurvey of East boundary of Township 13 South, Range 25 E.

Chains.

Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in the ground for $\frac{1}{4}$ sec. cor., with a brass cap, marked,
 $\frac{1}{4}$ S 1 in W.,
 S 6 in E., and
 1913 in S. half;
 dig pits 18x18x12 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 I run,
 N. 0° 21' W., on random line, north half, bet. secs. 1 and 6.
 38.70 Fall 80 lks. east of the reestablished cor. of Ts. 12 and 13 S., Rs. 25 and 26 E., hereinbefore described.

Thence I run,
 S. 1° 32' E., on true line, north half, bet. secs. 1 and 6.
 18.00 Ascending gentle north slope.

Dry sandy wash, 75 lks. wide, 1 ft. deep, course N. 30° E.
 Thence continue ascent along north slope to cor.

38.71 The reestablished $\frac{1}{4}$ sec. cor., bet. secs. 1 and 6, hereinbefore described.

Land, slightly rolling, red gravelly soil, coarse texture, good growth of grama-grass, scattering yuccas, 4 to 8 ft. high.

No timber.

May 22, 1913.

Boundaries of Township 13 South, Range 25 East.
 Latitudes, departures, and closing errors.

Line designated.	True bearing.	Dist.	Latitudes.		Departures.	
			N.	S.	E.	W.
North bdy.	(N. 89° 56' W.	359.34	.42			359.34
	(N. 89° 44' W.	79.81	.37			79.81
	(N. 89° 50' W.	38.62	.11			38.62
West bdy.	(S. 0° 39' E.	79.47		79.46	.90	
	(S. 0° 15' E.	399.15		399.15	1.74	
South bdy.	(N. 89° 59' E.	197.95	.06		197.95	
	(S. 89° 57' E.	40.06		.04	40.06	
	(N. 89° 48' E.	40.00	.14		40.00	
	(S. 89° 54' E.	40.16		.07	40.16	
	(S. 89° 50' E.	160.88		.47	160.88	
East bdy.	(N. 0° 04' E.	40.07	40.07		.05	
	North,	40.16	40.16			
	(N. 0° 03' E.	40.00	40.00		.04	
	(N. 0° 11' E.	40.08	40.08		.13	
	(N. 1° 09' W.	82.65	82.63			1.66
	(N. 0° 22' W.	39.93	39.93			.26
	(N. 0° 14' W.	77.48	77.48			.31
	(N. 0° 08' E.	39.98	39.98		.99	
(N. 0° 40' W.	39.65	39.65			.46	
(N. 1° 32' W.	38.71	38.69			1.04	
Convergency.						.45
Totals,			479.77	479.19	482.00	481.95
			479.19		481.95	
Error in lat.,			0.58			
Error in departure,					0.05	

Retracement of West boundaries of Ts. 12 and 13 S., R. 24 E. 51.

Chains.

Retracement commenced June 30th, 1913, and executed by Thomas B. Matthews, U. S. Surveyor, with Young and Sons' light mountain transit No. 8480, previously described. I examine the adjustments of the transit, and find them to be correct, and know from recent tests of the solar apparatus, by comparing its indications resulting from solar observations, made during a. m. and p. m. hours, with a meridian established by observation on Polaris, at elongation, that the instrument is in satisfactory adjustment.

At 8h. 0m. a. m., l. m. t., I set off 23° 12 1/2' N. on decl. arc; 32° 15' on lat. arc, and determine a meridian with the solar at the cor. of Ts. 13 and 14 S., Rs. 23 and 24 E., reestablished by me, as hereinbefore described.

Thence I run, North, on random line, bet. secs. 31 and 36.

40.00 Make diligent search for original 1/4 sec. cor., which I fail to find.

79.96 Fall 15 lks. west of original cor. of secs. 25, 30, 31 and 36, which is a granite stone 6x8x4 ins. above ground, firmly set and marked as described by the Surveyor General. Therefore, the true bearing is N. 0° 07' E.

Thence I run, North, on random line, bet. secs. 25 and 30.

40.00 Make diligent search for original 1/4 sec. cor., which I fail to find.

79.92 Fall 12 lks. west of original cor. of secs. 19, 24, 25 and 30, which is a granite stone 8x8x4 ins. above ground, firmly set and marked, as described by the Surveyor General. Therefore, the true bearing is N. 0° 05' E.

Thence I run, North, on random line, bet. secs. 19 and 24.

39.73 Fall 6 lks. west of original 1/4 sec. cor., which is a granite 8x10x4 ins., loosely set and marked, as described by Surveyor General. Therefore, the true bearing is N. 0° 05' E.

Thence I run, North, from 1/4 sec. cor. on random line, bet. secs. 19 and 24.

40.00 Make diligent search for original cor. of secs. 13, 18, 19 and 24, which I fail to find; therefore, I continue my random line, north, making diligent search for original 1/4 sec. and sec. cors. at intervals of 40 chs., but fail to find any evidence of original cor. on this line, until at

760.19 Fall 47 lks. east of original cor. of Ts. 11 and 12 S., Rs. 23 and 24 E., which is decayed remains of charred redwood stake 1/2 in. square, 6 ins. long, deposited 6 ins. under surface, mound and pits obliterated. Therefore, true bearing from original 1/4 sec. cor., bet. secs. 19 and 24, T. 13 S., Rs. 23 and 24 E. to this cor. is N. 0° 02' W.

Note: At the point for cor. of Ts. 12 and 13 S., Rs. 23 and 24 E., I set off 23° 11 1/2' N. on the decl. arc; and at 12h. 3m. 19s., p. m., l. m. t., observe the sun on the meridian, and obtain a reading of 32° 20' on lat. arc. June 30th, 1913.

52. Temporary of West boundaries of Ts. 12 and 13 S., R. 24 E.
Chains.

July 1st, 1913: At 8h. 30m., a.m., l.m.t., I set off $23^{\circ} 08\frac{1}{2}'$ N. on decl. arc; $32^{\circ} 25\frac{1}{2}'$ on lat. arc, and determine a meridian with the solar at the original cor. of Ts. 11 and 12 S., Rs. 23 and 24 E. described above.

Thence I run,
S. $0^{\circ} 02'$ E. on temp. N. and S. line, bet. Rs. 23 and 24 E.

480.12 Set temp. cor. for Ts. 12 and 13 S., Rs. 23 and 24 E., and at
760.19 Intersect original $\frac{1}{4}$ sec. cor., bet. secs. 19 and 24, T. 13 S., Rs. 23 and 24 E., hereinbefore described.

July 1st, 1913.

Retracement of North boundary of T. 13 S., R. 24 E., and East half of North bdy. of Township 13 South, Range 23 E.

July 2nd, 1913: At 8h. 0m. a.m., l.m.t., I set off $23^{\circ} 04\frac{1}{2}'$ N. on decl. arc; $32^{\circ} 20'$ on lat. arc, and determine a meridian with the solar at the cor. of Ts. 12 and 13 S., Rs. 24 and 25 E., reestablished by me, as hereinbefore described.

Thence I run,
West, on random line, bet. secs. 1 and 36.

40.00 Make diligent search for original $\frac{1}{4}$ sec. cor., which I fail to find.

80.00 Make diligent search for original cor. of secs. 1, 2, 35 and 36, which I also fail to find.

Therefore, I continue my random line west, making diligent search for $\frac{1}{4}$ sec. and sec. cors. at intervals of 40 chs., but fail to find any evidence of any original cor. on this line, until at

718.91 Fall 87 lks. S. of point for original cor. of secs. 3, 4, 33 and 34, Ts. 12 and 13 S., R. 23 E., as determined from stake in SE. pit; mound and pits obliterated.

Therefore, true return bearing is S. $89^{\circ} 56'$ E.

Temp. North boundaries of T. 13 S., Rs. 23 and 24 East.

Thence I run,
S. $89^{\circ} 56'$ E., on temp. E. and W. line, bet. secs. 3 and 34, Ts. 12 and 13 S., R. 23 E.

40.015 Set temp. $\frac{1}{4}$ sec. cor.

80.03 Set temp. cor. of secs. 2, 3, 34 and 35.

Thence I run,
S. $89^{\circ} 56'$ E., on temp. E. and W. line, bet. secs. 2 and 35.

40.015 Set temp. $\frac{1}{4}$ sec. cor.

80.03 Set temp. cor. to secs. 1, 2, 35 and 36.

Thence I run,
S. $89^{\circ} 56'$ E., on temp. E. and W. line, bet. secs. 1 and 36.

40.015 Set temp. $\frac{1}{4}$ sec. cor.

80.03 Point for temp. Tp. cor., from which I determine point for cor. of Ts. 12 and 13 S., Rs. 23 and 24 E., N. 84 lks. dist., and 57 lks. W. of temp. cor. for the above numbered townships and ranges, set on temp. N. and S. line, as hereinbefore noted.

From the last above mentioned temp. cor. on temp. E. and W. line, I continue,

Temporary North boundaries of Township 13 S., Rs. 23 and 24 E. 53.

Chains.

478.82 S. $89^{\circ}56'$ E., on temp. E. and W. line, bet. Ts. 12 and 13 S., through Range 24 East, and at
Intersect the cor. of Ts. 12 and 13 S., Rs. 24 and 25 E., reestablished by me, as hereinbefore described.
Note: At the point for temp. cor. of secs. 5, 6, 31 and 32, Ts. 12 and 13 S., R. 24 E., I set off $23^{\circ}03\frac{1}{2}'$ N. on decl. arc, and at 12h. 3m. 42s. p.m., l.m.t., observe the sun on the meridian, and obtain a reading of $32^{\circ}20'$ on lat. arc.

July 2nd, 1913.

Resurvey of West boundary of T. 13 South, Range 24 East.

July 3rd, 1913: At 8h. 30m. a.m., l.m.t., I set off $23^{\circ}0'$ N. on the decl. arc; $32^{\circ}15'$ on lat. arc; and determine a meridian with the solar at the cor. of Ts. 13 and 14 S., Rs. 23 and 24 E., reestablished by me, as hereinbefore described.

Thence I run, (as per results of retracement hereinbefore noted.)

N. $0^{\circ}07'$ E., on true line, bet. secs. 31 and 36.

Over slightly rolling, prairie land, through scattering mesquite brush, 3 to 5 ft. high.

5.00 Dry wash, 25 lks. wide, 2 ft. deep, course S. 60° E.

16.00 Dry wash, 10 lks. wide, 2 ft. deep, course S. 60° E.

30.00 Dry wash, 25 lks. wide, 2 ft. deep, course east.

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

$\frac{1}{4}$ S 36 in W.,
S 31 in E., and
1913 in S. half;

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

79.96 Intersect original cor. of secs. 25, 30, 31 and 36, hereinbefore described. This old cor. being in a state of dilapidation, I destroy all trace of same, 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 cor. of secs. 25, 30, 31 and 36, with a brass cap, marked,

T 13 S in N., and
1913 in S. half;
R 23 E S 25 in NW.,
R 24 E S 30 in NE.,
S 31 in SE., and
S 36 in SW. quadrant;

dig pits 18x18x12 ins. in each sec. $5\frac{1}{2}$ ft. dist., and raise mound of earth 4 ft. base, 2 ft. high, west of corner.

Land, level and rolling.

Soil, loose, red gravelly sandy loam, coarse texture, 10 to 12 ins. deep on clay subsoil.

Scattering short grass and mesquite brush, 3 to 5 ft. high.
No timber.

Thence I run,

N. $0^{\circ}05'$ E. on true line, bet. secs. 25 and 30.

Over slightly rolling prairie land, through mesquite brush, 3 to 5 ft. high.

24.00 Dry wash, 10 lks. wide, 2 ft. deep, course east.

38.50 Dry wash, 10 lks. wide, 3 ft. deep, course east.

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

54. Resurvey of West boundary of Township 13 South, Range 24 E.

Chains.

	<p>$\frac{1}{4}$ S 25 in W., S 30 in E., and 1913 in S. half; raise mound of stone 3 ft. base, $2\frac{1}{2}$ ft. high, west of corner. Pits impracticable.</p>
66.00	Dry wash, 10 lks. wide, 1 ft. deep; course N 60° E.
79.92	Intersect original cor. of secs. 19, 24, 25 and 30, hereinbefore described. This old cor. being in a state of dilapidation, I destroy all trace of same; 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 cor. of secs. 19, 24, 25 and 30, with a brass cap, marked, T 13 S in N., and 1913 in S. half; R 23 E S 24 in NW., R 24 E S 19 in NE., S 30 in SE., S 25 in SW. quadrant; raise a mound of stone 3 ft. base, 3 ft. high, west of corner. Pits impracticable.
	Land, level and rolling. Soil, loose, red gravelly, sandy loam, coarse texture, 8 to 14 ins. deep on clay subsoil. Scattering short grass; mesquite brush 3 to 5 ft. high. No timber.

	Thence I run, N. $0^{\circ} 05'$ E., on true line, bet. secs. 19 and 24. Over slightly rolling land, through mesquite brush, 3 to 6 ft. high.
7.50	Dry wash, 15 lks. wide, 3 ft. deep, course east.
39.73	Intersect original $\frac{1}{4}$ sec. cor., hereinbefore described. This old cor. being in a state of dilapidation, I destroy all trace of same, 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 $\frac{1}{4}$ sec. cor., with a brass cap, marked, $\frac{1}{4}$ S 24 in W., S 19 in E., and 1913 in S. half; raise a mound of stone 3 ft. base, $2\frac{1}{2}$ ft. high, west of cor. Pits impracticable.
	Thence I run, N. $0^{\circ} 09'$ W., on true line, bet. secs. 19 and 24, on north $\frac{1}{2}$ mile.
14.00	Dry wash, 5 lks. wide, 1 ft. deep, course east.
23.50	Dry wash, 10 lks. wide, 2 ft. deep, course east.
40.01	(Proportional distance). Set an iron post 3 ft. long, 3 ins. in diam., 24 ins. in the ground for reestablished cor. of secs. 13, 18, 19 and 24, with a brass cap, marked, T 13 S in N., and 1913 in S. half; R 23 E S 13 in NW., R 24 E S 18 in NE., S 19 in SE., and S 24 in SW. quadrant; dig pits 18x18x12 ins. in each sec. $5\frac{1}{2}$ ft. dist., and raise mound of earth 4 ft. base, 2 ft. high, west of cor.
	Land, level and rolling. Soil, loose, red gravelly, sandy loam, 12 to 18 ins. deep on clay subsoil. Scattering short grass, mesquite brush, 3 to 6 ft. high. No timber.
	At the above described cor., I set off $22^{\circ} 59'$ N. on the decl. arc, and at 12h. 3m. 54s., p.m., l.m.t., observe the sun on the meridian, and obtain a reading of $32^{\circ} 17\frac{1}{2}'$ on lat. arc.

Resurvey of West boundary of Township 13 South Range 24 East. 55.

Chains,

Thence I run,
N.0°09' W., on true line, bet. secs.13 and 18.
Over level land, through heavy mesquite brush, 3 to 10
ft.high.

40.01 (Proportional distance). Set an iron post 3 ft.long, 1 in.
in diam., 26 ins. in the ground for reestablished $\frac{1}{4}$ sec.
cor., with a brass cap, marked,
 $\frac{1}{4}$ S 13 in W.,
S 18 in E., and
19 $\frac{1}{3}$ in S.half;
dig pits 18x18x12 ins., N.and S. of post, 3 ft. dist.,
and raise mound of earth 3 $\frac{1}{2}$ ft. base, 1 $\frac{1}{2}$ ft. high, west
of cor.

69.00 Bend in wagon road, brs. S., E. and N.

70.00 SW.cor. of wire fence, brs.E. 50 lks.dist.; thence paral-
lel to and 50 lks.west of wire fence.

80.02 (Proportional distance). Set an iron post 3 ft. long, 3
ins. in diam., 24 ins. in the ground for reestablished
cor.of secs. 7,12,13 and 18, with a brass cap, marked,
T 13 S in N., and
19 $\frac{1}{3}$ in S.half;
R 23 E S 12 in NW.,
R 24 E S 7 in NE.,
S 18 in SE., and
S 13 in SW. quadrant;
dig pits 18x18x12 ins., in each sec. 5 $\frac{1}{2}$ ft. dist.,and
raise a mound of earth 4 ft. base, 2 ft. high, west of
cor.

Land, level and rolling.
Soil, loose, sandy loam, 12 to 18 ins. deep on clay sub-
soil.
Scattering grass, mesquite brush, 3 to 10 ft. high.
No timber.

Thence I run,
N.0°09' W., on true line, bet. secs. 7 and 12.
Over level land, through mesquite brush, 6 to 8 ft. high.

.20 NW. cor.of wire fence, brs.E.30 lks.dist.

.70 SW. cor.of wire fence, brs.E. 30 lks.dist.; thence paral-
lel to and west of wire fence.

20.50 Cor.of wire fence brs.E. 50 lks.dist.

24.00 Amos Marion's house brs.east 6 chs.dist.

40.01 (Proportional distance.) Set an iron post 3 ft. long, 1 in.
in diam., 26 ins. in the ground for reestablished $\frac{1}{4}$ sec.
cor., with a brass cap, marked,
 $\frac{1}{4}$ S 12 in W.,
S 7 in E., and
19 $\frac{1}{3}$ in S.half;
dig pits 18x18x12 ins. N. and S. of post 3 ft. dist.,
and raise mound of earth 3 $\frac{1}{2}$ ft. base, 1 $\frac{1}{2}$ ft. high, west
of cor.

60.00 Corner of wire fence, brs.east 60 lks.dist.

80.02 (Proportional distance.) Set an iron post 3 ft.long, 3
ins. in diam., 24 ins. in the ground for reestablished
cor. of secs. 1,6, 7 and 12, with a brass cap, marked,
T 13 S in N., and
19 $\frac{1}{3}$ in S.half;
R 23 E S 1 in NW.,
R 24 E S 6 in NE.,
S 7 in SE., and
S 12 in SW. quadrant;

dig pits 18x18x12 ins., in each sec. 5 $\frac{1}{2}$ ft. dist.,and
raise a mound of earth 4 ft. base, 2 ft. high, west of
corner.

Land, level.
Soil, loose, sandy loam, 12 to 18 ins. deep, medium texture
on clay subsoil.
Scattering grass, mesquite brush, 3 to 7 ft.high.
No timber.

56. Resurvey of West boundaries of Township 13 South, Range 24 E.

Chains.

Thence I run,
 N.0°09'W. on true line, bet. secs. 1 and 6.
 Over level land, through lane.
 12.00 Small cabin brs. E. 3 chs. dist.
 21.50 Cor. of wire fence, brs. E. 70 lks. dist.
 40.01 (Proportional distance). Set an iron post 3 ft. long, 1
 in. in diam., 26 ins. in the ground for reestablished
 $\frac{1}{4}$ sec. cor., with a brass cap, marked,
 $\frac{1}{4}$ S 1 in W.;
 S 6 in E., and
 19 $\frac{1}{3}$ in S. half;
 dig pits 18x18x12 ins., N. and S. of post, 3 ft. dist.,
 and raise mound of earth 3 $\frac{1}{2}$ ft. base, 1 $\frac{1}{2}$ ft. high, west
 of cor.
 60.00 Corner of wire fence, brs. east 80 lks. dist.
 79.90 Intersect corner of wire fence; fence brs. W. and S.
 80.02 Point for Tp. cor. determined from temp. E. and W. and N.
 and S. lines as hereinbefore described.
 Set an iron post 3 ft. long, 3 ins. in diam., 24 ins. in
 the ground for reestablished cor. of Ts. 12 and 13 S.,
 Rs. 23 and 24 E., with a brass cap, marked,
 T 12 S in N.,
 R 24 E in E.,
 T 13 S, 19 $\frac{1}{3}$ in S., and
 R 23 E in W. half;
 S 36 in NW.,
 S 31 in NE.,
 S 6 in SE., and
 S 1 in SW. quadrant;
 dig pits 24x24x12 ins., E., W. and N. 4 ft., and S. of
 post 8 ft. dist., and raise mound of earth 5 ft. base,
 2 $\frac{1}{2}$ ft. high, south of cor.
 Land, level.
 Soil, loose, sandy loam, medium texture, 12 to 18 ins.
 deep on clay subsoil.
 Scattering grass, mesquite brush, 3 to 7 ft. high.
 No timber.

July 3, 1913.

Retracement of South boundary of Township 16 S., R. 25 E.

Retracement commenced July 9, 1913, and executed by
 Thomas B. Matthews, U. S. Surveyor, with Young and
 Sons' light mountain transit No. 8480, with solar at-
 tachment. The horizontal limb is 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 latitude and declination arcs.
 This instrument was approved by the Supervisor of Surveys,
 Jan. 30, 1913.
 I examined the adjustments of the transit, and find them
 to be correct; then, to test the solar apparatus by
 comparing its indications resulting from solar observa-
 tions made during a.m. and p.m. hours, with a meridian
 determined by observation on Polaris, I proceed as fol-
 lows:
 At my camp, which is located close to the SW. cor. of sec.
 16, T 16 S, R 25 E, I set off 32°2' on lat. arc; 22°
 22' N. on decl. arc, and at 5h.0m., p.m., l.m.t., deter-
 mine a meridian with the solar, and mark a point there-
 on by driving a stake firmly in the ground 5 chs. N.
 of my station.

July 9, 1913.

Retracement of South boundary of Township 16 South Range 25 E. 57.

Chains.

July 10th, 1913: At 0h. 25m. a.m., l.m.t., I observe Polaris at eastern elongation, in accordance with instructions in the Manual, and mark the line thus determined by driving a stake in the ground, 5 chs. N. of my station.

At 7h. 0m. a.m., l.m.t., I lay off the azimuth of Polaris $1^{\circ}22'$ to the west. The meridian thus determined intersects the stake marking the meridian indicated by the solar apparatus July 9th, 1913.

At 7h. 15m. a.m., l.m.t., I set off $22^{\circ}18'N.$ on declination arc $32^{\circ}2'$ on latitude arc. The meridian thus determined with the solar intersects the stake which marks the meridian determined by solar observation, July 9th, 1913.

The solar apparatus by both p.m. and a.m. observations defines positions for meridian, which are identical with the meridian determined by observation of Polaris at eastern elongation. Therefore, I conclude that the adjustments of the instrument are correct.

The magnetic bearing of the true meridian at 8h. 20m. a.m., l.m.t., is $N.12^{\circ}55' W.$ The angle thus determined gives the magnetic decl. $12^{\circ}55' E.$

At 8h. 00m. a.m., l.m.t., I set off $22^{\circ}17'N.$ on decl. arc; and $31^{\circ}59'$ on lat. arc; and determine a meridian with the solar at the original cor. of secs. 2, 3, 34 and 35 on S. bdy. of Tp., which is a granite stone $8x10x5$ ins. above ground; marks nearly obliterated.

Thence I run,
East, on random line, along south bdy. of sec. 35.
40.04 Fall 5 lks. south of original $\frac{1}{4}$ sec. cor., which is a granite stone $24x8x6$ ins., loosely set and mounded stone, and marked as described by Surveyor General.
Therefore, the true bearing is $N.89^{\circ}56' E.$

Thence I run,
East, on random line, bet. secs. 2 and 35, on east half mile.
39.95 Fall 5 lks. south of original cor. of secs. 1, 2, 35 and 36, which is a redwood post $4x4x18$ ins. above ground, firmly set, marks nearly obliterated.
Therefore the true bearing is $N. 89^{\circ} 56' E.$

Thence I run,
East, on random line, bet. sec. 1 and 36.
40.00 Make diligent search for original $\frac{1}{4}$ sec. cor., which I fail to find.
80.08 Fall 12 lks. S. of original cor. of Ts. 16 and 17 S., Rs. 25 and 26 E., which is a granite stone $12x12x14$ ins. above ground, firmly set, marked and witnessed as described by the Surveyor General.
Therefore, the true bearing is $N.89^{\circ} 55' E.$

From the original cor. of secs. 2, 3, 34 and 35 hereinbefore described, I run,
West, on random line, bet. secs. 3 and 34.
40.00 Fall 10 lks. north of original $\frac{1}{4}$ sec. cor., which is a redwood post $4x4x12$ ins. above ground, firmly set, marks nearly obliterated. Therefore, the true return bearing is $N. 89^{\circ} 51' E.$

58. Retracement of South boundary of Township 16 South, Range 25 E.

Chains.	
40.00	<p>Thence I run, West, on random line, bet. secs. 3 and 34, on west half mile. Fall 5 lks. north of original cor. of secs. 3, 4, 33 and 34, which is a redwood post 4x4x18 ins. above ground, firmly set, marks nearly obliterated. Therefore, the true return bearing is N. 89° 56' E.</p>
40.09	<p>Thence I run, West, on random line; bet. secs. 4 and 33. Fall 9 lks. N. of original $\frac{1}{4}$ sec. cor., which is a redwood post 4x4 ins., broken off even with top of ground. Therefore, the return bearing is N. 89° 52' E.</p>
40.00 80.28	<p>Thence I run, West, on random line, bet. secs. 4 and 33, on west half mile. Make diligent search for original cor. of secs. 4, 5, 32 and 33, which I failed to find. Therefore, I continue my random line west, bet. secs. 5 and 32. Fall 23 lks. N. of original $\frac{1}{4}$ sec. cor., which is a redwood post 4x4x18 ins. above ground, firmly set; marks nearly obliterated. Therefore, the true return bearing is N. 89° 50' E.</p>
40.02	<p>Thence I run, West, on random line, bet. secs. 5 and 32, on west half mile. Fall 11 lks. N. of original cor. of secs. 5, 6, 31 and 32, which is a redwood post 4x4x18 ins. above ground, firmly set, and marks nearly obliterated. Therefore, the true return bearing is N. 89° 50' E.</p>
40.00	<p>Thence I run, West, on random line, bet. secs. 5 and 32, on west half mile. Fall 11 lks. N. of original cor. of secs. 5, 6, 31 and 32, which is a redwood post 4x4x18 ins. above ground, firmly set, and marks nearly obliterated. Therefore, the true return bearing is N. 89° 50' E.</p>
40.05	<p>Thence I run, West, on random line, bet. secs. 6 and 31. Fall 11 lks. N. of original $\frac{1}{4}$ sec. cor., which is a redwood stake, 4x4x12 ins. above ground, firmly set, marks nearly obliterated. Therefore, the true return bearing is N. 89° 50' E.</p>
38.07	<p>Thence I run, West, on random line, bet. secs. 6 and 31, on west half mile. Fall 9 lks. south of the original cor. of Ts. 16 and 17 S., Rs. 24 and 25 E., which is a redwood stake 4x4x24 ins. above ground, loosely set and marked, as described by the Surveyor General. Therefore, the true return bearing is S. 89° 52' E. At this cor., I set off 22° 15$\frac{1}{2}$' N. on decl. arc, and at 12h. 5m. 4secs. p.m., l.m.t., observe the sun on the meridian, and obtained a reading of 31° 59' on lat. arc.</p>

Retracement of East boundary of Township 16 South, R. 25 E. 59.

Chains.

From the original cor. of Ts.16 and 17 S., Rs.25 and 26 E., hereinbefore described, I run,

40.00 North, on random line, bet. secs.31 and 36.
Make diligent search for original $\frac{1}{4}$ sec.cor., which I fail to find.

80.00 Make diligent search for original cor.of secs. 25,30,31 and 36, which I also fail to find. Therefore, I continue my random north,making diligent search for orig. $\frac{1}{4}$ sec.and.sec.cors. at intervals of 40 chs., but fail to find any evidence of original cors. on this line.

479.92 Intersect Third Standard Parallel S., as hereinafter described.

July 10, 1913.

Retracement of West bdy. of Township 16 South,Range 25 E.

July 11th, 1913: At 7h.30m. a.m.,l.m.t., I set off $22^{\circ} 09\frac{1}{2}'$ N. on decl.arc; $31^{\circ} 59'$ on lat.arc, and determine a meridian with the solar at the original cor.of Ts.16 and 17 S.,Rs. 24 and 25 E., hereinbefore described.

Thence I run,

40.05 North, on random line, bet. secs.31 and 36.
Fall 5 lks.east of original $\frac{1}{4}$ sec.cor., which is decayed remains of old redwood post, marks nearly obliterated. Therefore, the true return bearing is $S.0^{\circ} 4' E.$

Thence I run,
North, on random line, bet. secs.31 and 36, on north half mile.

40.00 Make diligent search for original cor.of secs. 25,30,31 and 36, which I fail to find. Therefore, I continue my random line, north bet secs.25 and 30.

80.00 Make diligent search for original $\frac{1}{4}$ sec.cor.,which I also fail to find.

120.03 Fall 25 lks.east of original cor. of secs.19,24,25 and 30, which is a redwood post, 4x4x16 ins. above ground, firmly set, marks nearly obliterated. Therefore, the true return bearing is $S.0^{\circ} 7' E.$

Thence I run,
North, on random line, bet. secs.19 and 24.

40.00 Fall 8 lks.east of original $\frac{1}{4}$ sec.cor., which is a redwood post 4x4x20 ins. above ground, loosely set and marked as described by the Surveyor General. Therefore, the true return bearing is $S.0^{\circ} 7' E.$

Thence I run,
North, on random line, bet. secs.19 and 24, on north half mile.

40.05 Fall 9 lks.east of original cor.of secs.13,18,19 and 24, which is a redwood post 4x4x18 ins. above ground,firmly set and marked, as described by the Surveyor General. Therefore, the true return bearing is $S.0^{\circ} 8' E.$

Thence I run,
North, on random line, bet. secs.13 and 18.

60. Retracement of West boundary of Township 16 S., R. 25 E.

Chains.

40.00 Fall 8' lks. east of original $\frac{1}{4}$ sec. cor., which is a hardwood post 4x4x24 ins. above ground, loosely set and marked, as described by the Surveyor General.
Therefore, the true return bearing is S. 0°7' E.

Thence I run,
North, on random line, bet. secs. 13 and 18, on north half mile.

40.03 Fall 3 lks. east of original cor. of secs. 7, 12, 13 and 18, which is a redwood post 4x4x18 ins. above ground, firmly set and marked, as described by the Surveyor General.
Therefore, the true return bearing is S. 0°2' E.

Thence I run,
North, on random line, bet. secs. 7 and 12.

40.30 Fall 3 lks. east of orig. $\frac{1}{4}$ sec. cor., which is a redwood post, 4x4x16 ins. above ground, firmly set, marks nearly obliterated.
Therefore, the true return bearing is S. 0°2' E.

Thence I run,
North, on random line, bet. secs. 7 and 12, on N. half mile.

39.78 Fall 4 lks. E. of original cor. of secs. 1, 6, 7 and 12, which is a redwood post 4x4x16 ins. above ground, loosely set and greatly decayed.
Therefore, the true return bearing is S. 0°3' E.

Thence I run,
North, on random line, bet. secs. 1 and 6.

40.00 Make diligent search for orig. $\frac{1}{4}$ sec. cor., which I fail to find.

79.61 Intersect Third Standard Parallel S., 6 lks. east of the point for orig. closing cor. of T. 16 S., Rs. 24 and 25 E., as determined by proportional measurement along the Standard Parallel 26.42 chs. S. 89°55' W. of the standard cor. of T. 15 S., Rs. 24 and 25 E., reestablished by me, as hereinbefore described.
Therefore, the true return bearing is S. 0°03' E.

Resurvey of West boundary of Township 16 South, Range 25 E.

At the point for reestablished closing cor. of Ts. 16 S., Rs. 24 and 25 E., described above, I reestablish said closing cor., as follows:

Set an iron post 3 ft. long, 3 ins. in diam., 24 ins. in the ground for closing cor. of Ts. 16 S., Rs. 24 and 25 E., with a brass cap, marked,

C C S of center,

T 15 S R 24 E S 36 R 25 E S 31 in N. half;

S 6, R 25 E in SE., and

S 1, R 24 E in SW. quadrant;

dig pits 24x30x12 ins. crosswise on each line, E. and W. 4 ft., and S. of post 7 ft. dist., and raise mound of earth 5 ft. base, 2½ ft. high, south of cor.

Thence I run, (as per result of retracement hereinbefore noted.)

S. 0° 03' E., on true line, bet. secs. 1 and 6.

Over level bed of dry alkali lake.

Resurvey of West boundary of Township 16 South Range 25 E. 61.

Chains.

39.57 (Proportional distance). Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in the ground for reestablished $\frac{1}{4}$ sec. cor., with a brass cap, marked,
 $\frac{1}{4}$ S 1 in W.,
 S 6 in E., and
 1913 in S. half;
 dig pits 18x18x12 ins., N. and S. of post, 3 ft. dist., and raise mound of earth $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high, west of cor.

79.61 Intersect original cor. of secs. 1, 6, 7 and 12, hereinbefore described, to perpetuate which I set an iron post 3 ft. long, 3 ins. in diam., 24 ins. in the ground along side of old cor., with a brass cap, marked,
 T 16 S in N., and
 1913 in S. half;
 R 24 E, S 1 in NW.,
 R 25 E S 6 in NE.,
 S 7 in SE., and
 S 8 in SW. quadrant;
 dig pits 18x18x12 ins., in each sec. $5\frac{1}{2}$ ft. dist., and raise a mound of earth 4 ft. base, 2 ft. high, west of corner.

Land, level.
 Soil, alkali.
 No vegetation.

 Thence I run,
 S. 0° 03' E., on true line, bet. secs. 7 and 12.
 Over dry bed of old alkali lake.

5.00 Wagon road, brs. E. and W.
 19.00 Leave dry bed of old alkali lake; thence over level alkali prairie land.

39.78 Intersect original $\frac{1}{4}$ sec. cor., hereinbefore described, to perpetuate which I set an iron post 3 ft. long, 1 in. in diam., 26 ins. in ground alongside of old cor., with a brass cap, marked,
 $\frac{1}{4}$ S 12 in W.,
 S 7 in E., and
 1913 in S. half;
 dig pits 18x18x12 ins., N. and S. of post 3 ft. dist., and raise mound of earth $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high, west of cor.

Thence I run,
 S. 0° 02' E., on true line, bet. secs. 7 and 12, on south half mile.
 Over level prairie land.

.10 Wire fence, brs. E. and W.
 40.30 Intersect original cor. of secs. 7, 12, 13 and 18, hereinbefore described, to perpetuate which I set an iron post 3 ft. long, 3 ins. in diam., 24 ins. in the ground alongside of this old cor., with a brass cap, marked,
 T 16 S in N., and
 1913 in S. half;
 R 24 E S 12 in NW.,
 R 25 E S 7 in NE.,
 S 18 in SE., and
 S 13 in SW. quadrant;
 dig pits 18x18x12 ins. in each sec. $5\frac{1}{2}$ ft. dist., and raise a mound of earth 4 ft. base, 2 ft. high, west of cor.

Land, level.
 Soil, alkali, 12 ins. deep on hardpan subsoil.
 Short salt grass. No timber.

 Thence I run,
 S. 0° 2' E., on true line, bet. secs. 13 and 18.
 Over level prairie land.

62. Resurvey of West boundary of Township 16 S., R. 25 East.

Chains.

- 40.03 Intersect original $\frac{1}{4}$ sec. cor., hereinbefore described, to perpetuate which I set an iron post 3 ft. long, 1 in. in diam., 26 ins. in the ground, alongside of original cor., with a brass cap, marked,
 $\frac{1}{4}$ S 13 in W.,
 S 18 in E., and
 19 $\frac{1}{3}$ in S. half;
 dig pits 18x18x12 ins., N. and S. of post, 3 ft. dist., and raise mound of earth 3 $\frac{1}{2}$ ft. base, 1 $\frac{1}{2}$ ft. high, west of cor.
 Thence I run,
 S. 0° 7' E., on true line, bet. secs. 13 and 18 on south half mile.
- 40.00 Intersect original cor. of secs. 13, 18, 19 and 24, hereinbefore described, to perpetuate which I set an iron post 3 ft. long, 3 ins. in diam., 24 ins. in ground, alongside this old cor., with a brass cap, marked,
 T 16 S in N., and
 19 $\frac{1}{3}$ in S. half;
 R 24 E S 13 in NW.,
 R 25 E S 18 in NE.,
 S 19 in SE., and
 S 24 in SW. quadrant;
 dig pits 18x18x12 ins. in each sec. 5 $\frac{1}{2}$ ft. dist., and raise mound of earth 4 ft. base 2 ft. high, west of cor.
 Land, level.
 Soil, alkali, 12 ins. deep on hardpan subsoil.
 Short salt grass.
 No timber.
-
- 39.00 Thence I run,
 S. 0° 8' E., on true line, bet. secs. 19 and 24.
 Over level prairie land.
 Wire fence brs. E. and W. NE corner of wire fence brs. E. 50 lks. dist.
 Thence parallel to and 50 lks. west of fence.
- 40.05 Intersect original $\frac{1}{4}$ sec. cor. hereinbefore described, to perpetuate which I set an iron post 3 ft. long, 1 in. in diam., 26 ins. in the ground, alongside the original cor., with a brass cap, marked,
 $\frac{1}{4}$ S 24 in W.,
 S 19 in E., and
 19 $\frac{1}{3}$ in S. half;
 dig pits 18x18x12 ins., N. and S. of post, 3 ft. dist., and raise mound of earth 3 $\frac{1}{2}$ ft. base, 1 $\frac{1}{2}$ ft. high, west of cor.
 Thence I run,
 S. 0° 7' E., on true line, bet. secs. 19 and 24, on south half mile, parallel to and 50 lks. west of wire fence.
- 20.00 Wire fence brs. E. and W. SE corner of wire fence brs. E. 50 lks. dist. which I set an iron post 3 ft. long, 1 in.
- 40.00 Intersect original cor. of secs. 19, 24, 25, and 30, hereinbefore described, to perpetuate which I set an iron post 3 ft. long, 3 ins. in diam., 24 ins. in the ground, alongside the original cor., with a brass cap, marked,
 T 16 S in N., and
 dig pits 18x18x12 ins. in S. half; and S. of post, 3 ft. dist., and raise mound of earth 3 $\frac{1}{2}$ ft. base, 1 $\frac{1}{2}$ ft. high, west of cor.
 R 24 E S 24 in NW.,
 R 25 E S 19 in NE.,
 S 30 in SE., and
 Thence I run,
 S. 0° 7' E., on true line SW. quadrants, bet. secs. 25 and 24, on south half mile, parallel to and 50 lks. west of wire fence.
 dig pits 18x18x12 ins. in each sec. 5 $\frac{1}{2}$ ft. dist., and raise mound of earth 4 ft. base, 2 ft. high, west of cor.
 At this cor., wire fence brs. E. and W. Corner of wire fence brs. E. 10 lks. dist.
 Note: At this cor., I set off 22° 8' N. on decl. arc, and at 12h. 5m. 13s. p.m. local, observe the sun on the meridian, and obtain a reading of 32° 1' on latitude arc.
 Land, level.

Resurvey of West boundary of Township 16 S., R. 25 E. 63.

Chains

Soil, alkali, 12 ins. deep on hardpan subsoil.
Short salt grass.
No timber.

Thence I run,
S.0°07'E., on true line, bet. secs.25 and 30.
Over level prairie land.

40.01 Along west side of wire fence.
(Proportional distance.) Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in the ground for reestablished $\frac{1}{4}$ sec.cor., with a brass cap, marked,
 $\frac{1}{4}$ S 25 in W.,
S 30 in E., and
1913 in S-half;
dig pits 18x18x12 ins., N.and S.of post, 3 ft. dist., and raise mound of earth $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high, west of cor.

From this corner, corner of wire fence brs.E.1 lk.dist.
Thence along fence line.

80.02 (Proportional distance.) Set an iron post 3 ft.long, 3 ins. in diam., 24 ins. in the ground, for reestablished cor.of secs. 25,30, 31 and 36, with a brass cap, marked,
T 16 S in N., and
1913 in S. half;
R 24 E S 25 in NW.,
R 25 E S 30 in NE.,
S 31 in SE., and
S 36 in SW.quadrant;
dig pits 18x18x12 ins., in each sec. $5\frac{1}{2}$ -ft. dist.,and raise mound of earth 4 ft.base, 2 ft.high, west of cor.
Land, level.
Soil, alkali, 12 ins.deep on hardpan subsoil.
Short salt grass.
No timber.

Thence I run,
S.0°07'E., on true line, bet. secs.31 and 36, along fence line, over level prairie land.

.03 Corner of wire fence.
40.01 Intersect original $\frac{1}{4}$ sec.cor., hereinbefore described, to perpetuate which I set an iron post 3 ft.long, 1 in. in diam., 26 ins. in the ground, alongside original cor. with a brass cap, marked,
 $\frac{1}{4}$ S 36 in W.,
S 31 in E., and
1913 in S-half;
dig pits 18x18x12 ins., N.and S. of post, 3 ft.dist., and raise mound of earth $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high, west of cor.

Thence I run,
S.0°04'E. on true line, bet. secs.31 and 36 on S-half mile.
36.50 Corner of wire fence; fence turns S. 20°W.
39.50 Wire fence brs.E.and W. Corner of wire fence brs.W.50 lks. dist.

40.05 Intersect the original cor. of Ts.16 and 17 S.,Rs.24 and 25 E., hereinbefore described, to perpetuate which I set an iron post 3 ft.long, 3 ins. in diam., 24 ins. in the ground alongside original cor., with a brass cap, marked,

T 16 S in N.,
R 25 E in E.,
T 17 S 1913 in S., and
R 24 E in W-half;
S 36 in NW.,
S 31 in NE.,
S 6 in SE., and
S 1 in SW. quadrant;

64. Resurvey of South boundary of Township 16 S., R. 25 E.

Chains.

dig pits 24x24x12 ins. on each line, E., W. and N., 4 ft., and S. of post 8 ft. dist., and raise mound of earth 5 ft. base, 2½ ft. high, south of cor.

Land, level.

Soil, adobe, 12 ins. deep on hardpan subsoil.

Short salt grass.

No timber

Resurvey of SOUTH Boundary of Township 16 S., R. 25 E.

From the cor. of Ts. 16 and 17 S., Rs. 24 and 25 E., reestablished by me, as hereinbefore described, I run, (as per result of retracement hereinbefore noted).

S. 89° 52' E., on true line, bet. secs. 6 and 31.

Over level prairie land, parallel to and 50 lks. south of wire fence.

24.00

W. L. Muse's pump house brs. N. 1 ch. dist.

38.07

Intersect original ¼ sec. cor. hereinbefore described, to perpetuate which I set an iron post 3 ft. long, 1 in. in diam., 26 ins. in the ground alongside of original ¼ sec. cor., with a brass cap, marked,

¼ S 31 in N., and

S 6, 1913 in S. half;

dig pits 18x18x12 ins., E. and W. of post, 3 ft. dist. & raise mound of earth 3½ ft. base, 1½ ft. high, north of cor.

Thence I run,

N. 89° 50' E. on true line, bet. secs. 6 and 31, on east half mile.

.02

Wire fence, brs. N. and S.; corner wire fence brs. N. 50 lks. dist. Enter cultivated land, brs. N. and S.

1.00

A. J. Rosser's house, brs. N. 125 lks. dist.

10.00

Wire fence, brs. N. and S.; leave cultivated land.

40.05

Intersect original cor. of secs. 5, 6, 31 and 32, hereinbefore described, to perpetuate which I set an iron post 3 ft. long, 3 ins. in diam., 24 ins. in the ground alongside of original cor., with a brass cap, marked,

T 16 S in N., R 25 E. in E. & T 17 S 1913 in S. half,
S 31 in NW. ¼, S 32 in NE., S 15 in SE.

and S. 6 in SW. quadrant,

dig pits 18x18x12 ins., in each sec. 5½ ft. dist., and raise mound of earth 4 ft. base, 2 ft. high, west of cor.

Land, level.

Soil, light, adobe, 12 to 18 ins. deep on hardpan subsoil.

Short salt grass.

No timber.

Thence I run,

N. 89° 50' E., on true line, bet. secs. 5 and 32, over level prairie land.

40.02

Intersect original ¼ sec. cor., hereinbefore described, to perpetuate which I set an iron post 3 ft. long, 1 in. in diam., 26 ins. in the ground alongside of original cor., with a brass cap, marked,

¼ S 32 in N., and

S 5, 1913 in S. half;

dig pits 18x18x12 ins., E. and W. of post, 3 ft. dist., and raise mound of earth 3½ ft. base, 1½ ft. high, N. of cor.

Thence I run,

N. 89° 50' E. on true line, E. ½, bet. secs. 5 and 32.

Over level prairie land.

39.00

Dry wash, 15 lks. wide, 1 ft. deep, course NW.

40.125

(Proportional distance). Set an iron post 3 ft. long, 3 ins. in diam., 24 ins. in the ground, for reestab. cor. of secs. 4, 5, 32 and 33. with a brass cap, marked,

T 16 S in N.,

R 25 E in E., and

T 17 S 1913 in S. half;

Resurvey of South boundary of Township 16 S., R. 25 E. 65.

Chains.

- S 32 in NW.,
 S 33 in NE.,
 S 4 in SE., and
 S 5 in SW. quadrant;
 dig pits 18x18x12 ins. in each sec. 5½ ft. dist., and
 raise mound of earth 4 ft. base, 2 ft. high, west of cor.
 Land, level.
 Soil, light adobe, 12 to 18 ins. deep on hardpan subsoil.
 Short salt grass.
 No timber.
-
- Thence I run,
 N. 89°50' E., on true line, bet. secs. 4 and 33.
 1.00 Wagon road, brs. N. and S.
 1.25 NW. cor. of wire fence, brs. S. 50 lks. dist. Thence parallel
 to and N. of wire fence.
 40.10 Wagon road brs. NE. and SW..
 40.155 Intersect original ¼ sec. cor. hereinbefore described. This
 old cor. being in a state of dilapidation, I destroy all
 trace of same, 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 ¼ sec. cor., with a brass cap, marked,
 ¼ S 33 in N., and
 S 4, 1913 in S. half;
 dig pits 18x18x12 ins., E. and W. of post, 3 ft. dist.,
 and raise mound of earth 3½ ft. base, 1½ ft. high, north
 of cor.
 Thence I run,
 N. 89°52' E. on true line, bet. secs. 4 and 33 on east half
 mile.
 23.00 Old Sulphur Springs Ranch house, brs. north 30 chs. dist.
 39.50 NE. cor. of wire fence, brs. S. 50 lks. dist.
 40.09 Intersect original cor. of secs. 3, 4, 33 and 34, hereinbefore
 described, to perpetuate which I set an iron post 3 ft.
 long, 3 ins. in diam., 24 ins. in the ground alongside
 of original cor., with a brass cap, marked,
 T 16 S in N.,
 R 25 E in E., and
 T 17 S, 1913 in S. half;
 S 33, in NW.,
 S 34 in NE.,
 S 3 in SE., and
 S 4 in SW. quadrant;
 dig pits 18x18x12 ins., in each sec. 5½ ft. dist., and
 raise of earth 4 ft. base, 2 ft. high, west of cor.
 Land, level.
 Soil, light, sandy loam; medium texture, 12 ins. deep on
 clay subsoil.
 Short salt grass.
 No timber.
-
- Thence I run,
 N. 89°56' E., on true line, bet. secs. 3 and 34.
 Over level land.
 .20 Wagon road, brs. NW. and SE.
 .50 SW. cor. of wire fence, brs. N. 50 lks. dist. Thence parallel
 to and 50 lks. S. of wire fence.
 40.00 Intersect original ¼ sec. cor., hereinbefore described, to
 perpetuate which I set an iron post 3 ft. long, 1 in. in
 diam., 26 ins. in the ground alongside of original cor.
 with a brass cap, marked,
 ¼ S 34 in N., and
 S 3, 1913 in S. half;
 dig pits 18x18x12 ins., E. and W. of post, 3 ft. dist.,
 and raise mound of earth 3½ ft. base, 1½ ft. high, N.

66. Resurvey of South bdy. of Township 16 S., Range 25 East.

Chains.		
	of cor. From this cor., corner of wire fence brs.N. 50 lks.dist.	
	Thence I run, N.89°51'E., on true line, bet. secs.3 and 34, on east half mile.	
30.00	Enter scattering mesquite brush, 3 to 4 ft.high, brs.NW. and SE.	
39.50	SE.cor.of wire fence, brs.N.50 lks.dist.	
40.00	Intersect original cor.of secs. 2,3,34 and 35, hereinbefore described, to perpetuate which I set an iron post 3 ft.long, 3 ins. in diam., 24 ins. in the ground alongside of original cor., with a brass cap, marked, T 16 S in N., R 25 E in E., and T 17 S 1913 in S.half; S 34 in NW., S 35 in NE., S 2 in SE., and S 3 in SW. quadrant; dig pits 18x18x12 ins., in each sec. 5½ ft. dist., and raise a mound of earth 4 ft.base, 2 ft.high, west of cor.	
	Land, level..	
	Soil, light, sandy loam, medium texture, 12 ins. deep on clay subsoil.	
	Good grass, scattering mesquite, 3 to 4 ft.high on east end of line.	
	No timber.	
	July 11th, 1913.	

	July 10, 1913:	
	Thence I run, N.89°56'E., on true line, bet secs.2 and 35.	
.20	Over level land, through mesquite brush, 4 to 5 ft. high.	
15.00	Wagon road, brs.N.and S.	
	Foot of rocky butte, brs.NW. and SE.; thence ascend rocky SW.slope, 300 ft.	
35.00	Summit of spur slopes south; descend rocky SE. slope, 300 feet.	
40.04	Intersect original ¼ sec.cor. hereinbefore described. This old cor.being in a state of dilapidation, I destroy all trace of same, 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 ¼ sec.cor., with a brass cap, marked, ¼ S 35 in N., and S 2, 1913 in S. half; and raise mound of stone 2 ft.base, 2 ft. high, north of cor. Pits impracticable.	
	Thence I run, N.89°56'E. on true line, bet. secs.2 and 35, on east half mile.	
1.50	Dry rocky wash, 15 lks.wide, 2 ft.deep, course south.	
30.00	Foot of rocky butte, brs.NE. and SW.	
39.50	Wagon road brs.N.and S.	
39.95	Intersect original cor. of secs.1,2,35 and 36, hereinbefore described, to perpetuate which I set an iron post 3 ft. long, 3 ins. in diam., 24 ins. in the ground alongside of original cor., with a brass cap, marked, T 16 S in N., R 25 E in E., and T 17 S 1913 in S.half; S 35 in NW., S 36 in NE., S 1 in SE., and S 2 in SW quadrant; dig pits 18x18x12 ins., in each sec. 5½ ft. dist., and raise mound of earth 4 ft.base, 2 ft.high, west of cor.	

Resurvey of South bdy. of Township 16 South, Range 25 East. 67.

Chains.

Land, rolling and mountainous.
Soil, thin and rocky.
Good grass, mesquite brush, 3 to 5 ft. high.
No timber.

-
- Thence I run,
N. 89° 55' E. on true line, bet. secs. 1 and 36.
Over level land, through mesquite brush, 3 to 5 ft. high.
- 1.01 SW. cor. wire fence, brs. N. 2 lks. dist.; thence along south side of wire fence.
- 40.04 Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in the ground for reestablished $\frac{1}{4}$ sec. cor., with a brass cap, marked,
 $\frac{1}{4}$ S 36 in N., and
S 1, 1913 in S. half;
dig pits 18x18x12 ins., E and W. of post 3 ft. dist. and raise mound of earth $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high, north of corner,
- 51.00 House, S. 10 chs. dist.
- 80.08 Intersect original cor. of Ts. 16 and 17 S., Rs. 25 and 26 E. hereinbefore described, to perpetuate which I set an iron post 3 ft. long, 3 ins. in diam., 24 ins. in the ground alongside of original cor., with a brass cap, marked,
T 16 S in N., R 26 E in E.,
T 17 S 1913 in S., & R 25 E in W. half,
S 36 in NW., S 31 in NE.,
S 6 in SE. & S. 1 in; SW. quad.
dig pits 24x24x12 ins., on each line, E., W. and N. 4 ft., and S. of post 8 ft. dist., and raise a mound of earth 5 ft. base, $2\frac{1}{2}$ ft. high, south of cor.
- Land, level.
Soil, light, sandy loam, medium texture, 12 ins. deep on clay subsoil.
Good grass, scattering mesquite brush, 3 to 4 ft. high on east end of line.
No timber.

Resurvey of East bdy. of Township 16 South, Range 25 East.

-
- From cor. of Ts. 16 and 17 S., Rs. 25 and 26 E., reestablished by me, as hereinbefore described, I run,
North, on true line, bet. secs. 31 and 36.
Over level land, through mesquite brush, 3 to 5 ft. high.
- .01 Cor. of wire fence, brs. N. 10° E., and W.
- 40.00 Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in the ground, for reestablished $\frac{1}{4}$ sec. cor., with a brass cap, marked,
 $\frac{1}{4}$ S 36 in W.,
S 31 in E., and
1913 in S. half;
dig pits 18x18x12 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, west of cor.
- 79.50 Wire fence brs. E. and S.
- 80.00 Set an iron post 3 ft. long, 3 ins. in diam., 24 ins. in ground, for reestablished cor. of secs. 25, 30, 31 and 36 with a brass cap, marked,
T 16 S in N., and
1913 in S. half;
R 25 E S 25 in NW.,
R 26 E S 30 in NE.,
S 31 in SE., and
S 36 in SW. quadrant;

68. Resurvey of East boundary of Township 16 South Range 25 E.

Chains.	
	<p>dig pits 18x18x12 ins., in each sec. $5\frac{1}{2}$ ft. dist., and raise a mound of earth 4 ft. base, 2 ft. high, west of cor.</p> <p>Land, level. Soil, light, sandy loam, medium texture, 12 ins. deep on clay subsoil. Good grass. Mesquite brush, 3 to 5 ft. high. No timber.</p>

	<p>Thence I run, North, bet. secs. 25 and 30. Over level land, through mesquite brush, 3 to 5 ft. high. SE. cor. of wire fence, brs. west 10 lks. dist.; thence parallel to and east of wire fence.</p>
.50	
16.00	House brs. west 2 chs. dist.
19.90	Dry wash, 10 lks. wide, 1 ft. deep, course west.
40.00	Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in the ground, for reestablished $\frac{1}{4}$ sec. cor., with a brass cap, marked, $\frac{1}{4}$ S 25 in W., S 30 in E., and 1913 in S. half; dig pits 18x18x12 ins., N. and S. of post, 3 ft. dist., and raise mound of earth $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high, west of cor.
45.50	Wire fence brs. N. 1° E., S. 1° W.
79.50	Wire fence, brs. E. and W. NE. cor. of wire fence, brs. E. 25 lks. dist.
80.00	Set an iron post 3 ft. long, 3 ins. in diam., 24 ins. in the ground, for reestablished cor. of secs. 19, 24, 25 and 30, with a brass cap, marked, T 16 S in N., and 1913 in S. half; R 25 E S 24 in NW., R 26 E S 19 in NE., S 30 in SE., and S 25 in SW. quadrant; dig pits 18x18x12 ins. in each sec. $5\frac{1}{2}$ ft. dist., and raise mound of earth 4 ft. base, 2 ft. high west of cor. Land, level. Soil, light, sandy loam, medium texture, 12 ins. deep on clay subsoil. Good grass, mesquite brush, 3 to 5 ft. high. No timber.

	<p>Thence I run, North, on true line, bet. secs. 19 and 24. Over level land, through mesquite brush, 3 to 5 ft. high.</p>
40.00	Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in the ground, for reestablished $\frac{1}{4}$ sec. cor., with a brass cap, marked, $\frac{1}{4}$ S 24 in W., S 19 in E., and 1913 in S. half; dig pits 18x18x12 ins., N. and S. of post, 3 ft. dist., and raise mound of earth $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high, west of cor.
50.00	Wagon road brs. E. and W.
80.00	Set an iron post 3 ft. long, 3 ins. in diam., 24 ins. in ground, for reestablished cor. of secs. 13, 18, 19 and 24, with a brass cap, marked, T 16 S in N., and 1913 in S. half; R 25 E S 13 in NW., R 26 E S 18 in NE.,

Resurvey of East bdy. of Township 16 South Range 25 East. 69.

Chains.

S 19 in SE., and
 S 24 in SW. quadrant;
 dig pits 18x18x12 ins., in each sec. 5½ ft. dist., and
 raise mound of earth 4 ft. base, 2 ft. high, west of cor.
 Land, level.
 Soil, light, sandy loam, medium texture, 12 ins. deep on
 clay subsoil.
 Good grass, mesquite brush, 3 to 5 ft. high.
 No timber.

Thence I run,
 North, bet. secs. 13 and 18.
 Over level land, through mesquite brush, 3 to 6 ft. high.
 40.00 Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in
 the ground for reestablished ¼ sec. cor., with a brass
 cap, marked,
 ¼ S 13 in W.,
 S 18 in E., and 1913 in S. half;
 dig pits 18x18x12 ins., N and S. of post 3 ft. dist., and
 raise mound of earth 3½ ft. base, 1½ ft. high, west of
 corner.

80.00 Set an iron post 3 ft. long, 3 ins. in diam., 24 ins. in
 the ground, for reestablished cor. of secs. 7, 12, 13 and
 18, with a brass cap, marked,
 T 16 S in N., and
 1913 in S. half;
 R 25 E S 12 in NW., S 18 in SE., &
 R 26 E S 7 in NE., S 13 in SW. quad.;
 dig pits 18x18x12 ins. in each sec. 5½ ft. dist., and raise
 mound of earth 4 ft. base, 2 ft. high, West of cor.
 Land, level.
 Soil, light, sandy loam, medium texture, 12 ins. deep on
 clay subsoil.
 Good grass, mesquite brush, 3 to 5 ft. high.
 No timber.

Thence I run,
 North, on true line, bet. secs. 7 and 12.
 Over level land, through mesquite brush, 3 to 4 ft. high.
 40.00 Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in
 the ground for reestablished ¼ sec. cor., with a brass
 cap, marked,
 ¼ S 12 in W.,
 S 7 in E., and
 1913 in S. half;
 dig pits 18x18x12 ins., N. and S. of post, 3 ft. dist., and
 raise mound of earth 3½ ft. base, 1½ ft. high, west of
 cor.

80.00 Set an iron post 3 ft. long, 3 ins. in diam., 24 ins. in
 the ground for reestablished cor. of secs. 1, 6, 7 and 12,
 with a brass cap, marked,
 T 16 S in N., and
 1913 in S. half;
 R 25 E S 1 in NW.,
 R 26 E S 6 in NE.,
 S 7 in SE., and
 S 12 in SW. quadrant;
 dig pits 18x18x12 ins., in each sec. 5½ ft. dist., and
 raise mound of earth 4 ft. base, 2 ft. high, west of
 cor.
 Land, level.
 Soil, light, sandy loam, medium texture, 12 ins. deep on
 clay subsoil.
 Good grass, mesquite brush, 3 to 4 ft. high.
 No timber.

70. Resurvey of East boundary of Township 16 S., R. 25 E.

Chains.

Thence I run,
 North, bet. secs.1 and 6.
 Over level land, through mesquite brush, 3 to 6 ft.high.
 40.00 Set an iron post 3 ft.long, 1 in. in diam., 26 ins. in
 the ground, for reestablished $\frac{1}{4}$ sec.cor., with a brass
 cap, marked,
 $\frac{1}{4}$ S 1 in W.,
 S 6 in E., and
 1913 in S.half;
 dig pits 18x18x12 ins., N.and S.of post 3 ft. dist.,and
 raise mound of earth $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high, west
 of cor.
 73.00 Wagon road, brs.NW. and SE.
 79.92 Intersect Third Standard Parallel South, 27708 chs.S. 89°
 50' W. of Standard cor.of Tp. 15 S., Rs.25 and 26 E.,
 reestablished by me, as described in Book "B." of this
 group. /July 13, 1913,
 At point of intersection, I set an iron post 3 ft.long, 3
 ins. in diam., 24 ins. in the ground for reestablished
 closing cor. of Tp. 16 S., Rs.25 and 26 E., with a brass
 cap, marked,
 C C S of center,
 T 15 S R 25 E S 36 R 26 E,
 S 31 in N., and
 T 16S 1913 in S.half;
 S 6 R 26 E in SE., and
 S 1, R 25 E in SW.quadrant;
 dig pits 30x24x12 ins.crosswise on each line, E and W.
 4 ft., and S of post, 8 ft. dist., and raise a mound
 of earth 5 ft.base, $2\frac{1}{2}$ ft.high, south of cor.
 Land,level.
 Soil, light, sandy loam, medium texture, 12 ins. deep on
 clay subsoil.
 Good grass, mesquite brush, 3 to 6 ft.high.
 No timber.
 July 10th, 1913.

Boundaries of Township 16 South, Range 25 E.
 Latitudes, departures, and closing errors.

Line design- nated.	True bearing.	Dist.	Latitudes.		Departures.	
			N.	S.	E.	W.
South bdy.,	S.89°55' W.	80.08	.12	.12		80.08
	S.89°56' W.	79.99		.09		79.99
	S.89°51' W.	40.00		.10		40.00
	S.89°56' W.	40.00		.05		40.00
	S.89°52' W.	40.09		.09		40.09
	S.89°50' W.	160.35		.46		160.35
	N.89°52' W.	38.07	.09			38.07
West bdy.,	N.0°04' W.	40.05	40.05			.05
	N.0°07' W.	160.03	160.03			.33
	N.0°08' W.	40.05	40.05			.09
	N.0°07' W.	40.00	40.00			.08
	N.0°02' W.	80.33	80.33			.05
	N.0°03' W.	119.39	119.39			.11
North bdy., (3rd.Std.Par. S.)	N.89°55' E.	26.42	.04		26.42	
	N.89°47' E.	119.25	.45		119.25	
	N.89°44' E.	40.17	.19		40.17	
	N.89°53' E.	80.12	.16		80.12	
	N.89°50' E.	80.19	.23		80.19	
	N.89°51' E.	79.74	.21		79.74	
	N.89°50' E.	53.14	.16		53.14	
East bdy.,	South,	479.92		479.92		
Convergency,					.46	
Totals,			481.38	480.83	479.49	479.31
			480.83		479.31	
Error in latitude,			0.55			
Error in departure,					0.18	

Resurvey of North bdy. of Township 12 South, Range 23 East. 71.

Chains.

Resurvey commenced Aug. 9th, 1913, and executed by Thomas B. Matthews, U.S. Surveyor, with Young and Sons' light mountain transit No. 8480, previously described. I examine the adjustments of the transit, and find them to be correct, and know from recent tests of the solar apparatus, by comparing its indications resulting from solar observations, made during a.m. and p.m. hours, with a meridian established by observation on Polaris, at elongation, that the instrument is in satisfactory adjustment.

At 8h. 10m. a.m., l.m.l., I set off 15° 56½' N. on decl. arc; 32° 20' on lat. arc, and determine a meridian with the solar at the cor. of Ts. 12 and 13 S., Rs. 23 and 24 E., reestablished by me, as hereinbefore described.

The magnetic bearing of the true meridian thus determined is N. 12° 53' W.; the angle thus determined gives the magnetic decl. of 12° 53' E.

Thence I run, North, on blank line, through private tracts of T. 12 S., R. 23 E.

480.00 Set an iron post 3 ft. long, 3 ins. in diam., 24 ins. in the ground for reestablished cor. of Tp. 11 S., Rs. 23 and 24 E., with a brass cap, marked, T 11 S in N., and 1913 in S. half; R 23 E S 36 in NW., and R 24 E S 31 in NE. quadrant;

dig pits 30x24x12 ins. crosswise on each line, E. and W. 4 ft., and north of post 8 ft. dist., and raise mound of earth 5 ft. base, 2½ ft. high, N. of cor.

At the above described cor., I set off 15° 53' N. on decl. arc; and at 12h. 5m. 18secs. p.m., l.m.t., observe the sun on the meridian, and obtain a reading of 32° 25½' on lat. arc.

Note: From the above described cor., original cor. of Ts. 11 and 12 S., Rs. 23 and 24 E., hereinbefore described, brs. N. 63° E., 29 lks. dist. I destroy all trace of this old cor.

Thence I run, West on random line, along north bdy. of Tp. 12 S., R. 23 E., setting temp. ¼ sec. and sec. cors. at intervals of 40 chs. and at 479.32 chs., fall 56 lks. N. of original cor. of Ts. 11 and 12 S., Rs. 22 and 23 E., which is remains of old mound of earth; pits nearly obliterated. The above described cor. being in a state of dilapidation, I destroy all trace of same, 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 cor. of Ts. 11 and 12 S., Rs. 22 and 23 E., with a brass cap, marked,

- T 11 S in N.,
- R 23 E in E.,
- T 12 S 1913 in S., and
- R 22 E in W. half;
- S 36 in NW.,
- S 31 in NE.,
- S 6 in SE., and
- S 1 in SW. quadrant;

dig pits 24x24x12 ins. on each line, E., W. and N., 4 ft., and S. of post 8 ft. dist., and raise a mound of earth 5 ft. base, 2½ ft. high, south of cor.

Thence I run, N. 89° 56' E. on true line, bet. secs. 6 and 31. Over slightly rolling land, through scattering mesquite brush, 2 to 3 ft. high.

33.00 Wagon road brs. N. 80° W., S. 80° E.

39.32 Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in the ground, for reestablished ¼ sec. cor., with a brass cap, marked,

- ¼ S 31 in N., and
- S 6, 1913 in S. half;

72. Resurvey of North bdy. of Township 12 South, Range 23 East.

Chains.

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 the above described cor., the original $\frac{1}{4}$ sec. cor., which is a malpais stone 12x4x6 ins., loosely set and marked, as described by the Surveyor General, brs. S. 83° W., 114 lks. dist. I destroy all trace of this old cor.

79.32

Set an iron post 3 ft. long, 3 ins. in diam., 24 ins. in the ground for reestablished cor. of secs. 5, 6, 31 and 32, with a brass cap, marked,

T 11 S in N.,
R 23 E in E. and
T 12 S 1913 in S. half;
S 31 in NW.,
S 32 in NE.,
S 5 in SE., and
S 6 in SW. quadrant;

dig pits 18x18x12 ins. in each sec. $5\frac{1}{2}$ ft. dist., and raise mound of earth 4 ft. base, 2 ft. high, west of cor. From this cor. the original cor. of secs. 5, 6, 31 and 32, which is a malpais stone 6x8x10 ins., showing evidence of having been reset by private survey, brs. S. 82° E., 202 lks. dist. I destroy all trace of this old cor.

Land, level and rolling.

Soil, loose, gravelly sandy loam, medium to coarse texture, 8 to 14 ins. deep on clay subsoil.

Good grass, scattering mesquite brush, 2 to 3 ft. high.

No timber.

Thence I run,

N. $89^{\circ}56'$ E., on true line, bet. secs 5 and 32.

Over slightly rolling land, through scattering mesquite brush 3 to 4 ft. high.

40.00

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

$\frac{1}{4}$ S 32 in N., and
S 5, 1913 in S. half;

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

From the above described cor., the old $\frac{1}{4}$ sec. cor., which is a basalt stone 12x10x10 ins. loosely set, marks nearly obliterated, brs. S. $74\frac{1}{2}^{\circ}$ W., 98 lks. dist. I destroy all trace of this old cor.

80.00

Set an iron post 3 ft. long, 3 ins. in diam., 24 ins. in the ground for reestablished cor. of secs. 4, 5, 32 and 33, with a brass cap, marked,

T 11 S in N.,
R 23 E in E., and
T 12 S, 1913 in S. half;
S 32 in NW.,
S 33 in NE.,
S 4 in SE., and
S 5 in SW. quadrant;

dig pits 18x18x12 ins., in each sec. $5\frac{1}{2}$ ft. dist., and raise mound of earth 4 ft. base, 2 ft. high, west of cor.

From the above described cor., the old cor. of secs. 4, 5, 32 and 33, which is a malpais stone 14x7x7 ins., loosely set, and marks nearly obliterated, brs. S. $67\frac{1}{4}^{\circ}$ W., 93 lks. dist. I destroy all trace of this old cor.

Land, level and rolling.

Soil, loose, gravelly, sandy loam, medium to coarse texture, 8 to 16 ins. deep on clay subsoil.

Good grass, scattering mesquite brush, 2 to 4 ft. high.

No timber.

Resurvey of North boundary of Township 12 South, Range 23 East. 73

Chains.

- Thence I run,
N. 89°56'E., on true line, bet. secs. 4 and 33.
Over level land, through scattering mesquite brush, 3 to 4 ft. high.
- 35.00 Leave scattering mesquite brush, brs. N. and S.; thence over open prairie land.
- 40.00 Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in the ground for reestablished $\frac{1}{4}$ sec. cor., with a brass cap, marked,
 $\frac{1}{4}$ S 33 in N., and
S 4, 1913 in S. half;
dig pits 18x18x12 ins., E. and W. of post, 3 ft. dist., and raise mound of earth $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high, north of cor.
- From the above described cor., original $\frac{1}{4}$ sec. cor., which is a malpais stone, 14x5x6 ins., loosely set and marked as described by Surveyor General, brs. S. 67° W., 67 lks. dist. I destroy all trace of this old cor.
- 50.00 Wagon road brs. N. 89° E., S. 89° W.; thence along south side of wagon road.
- 80.00 Set an iron post 3 ft. long, 3 ins. in diam., 24 ins. in ground for reestablished cor. of secs. 3, 4, 33 and 34, with a brass cap, marked,
T 11 S in N.,
R 23 E in E., and
T 12 S 1913 in S. half;
S 33 in NW.,
S 34 in NE.,
S 3 in SE., and
S 4 in SW. quadrant;
dig pits 18x18x12 ins. in each sec. $5\frac{1}{2}$ ft. dist., and raise a mound of earth 4 ft. base, 2 ft. high, west of cor.
- Land, level.
Soil, light, sandy loam, medium texture, 8 to 12 ins. deep on clay subsoil.
Good grass, scattering mesquite brush, 3 to 4 ft. high.
No timber.

- Thence I run,
N. 89°56'E., on true line, bet. secs. 3 and 34.
Over level land, along south side of wagon road.
- 40.00 Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in the ground for reestablished $\frac{1}{4}$ sec. cor., with a brass cap, marked,
 $\frac{1}{4}$ S 34 in N., and
S 3 1913 in S. 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.
- 42.70 Cor. of wire fence brs. S. 45 lks. dist.; thence parallel to and north of wire fence.
- 60.00 Wagon road, brs. N. 30° W., S. 30° E.
- 61.00 Wire fence brs. N. and S.; fence cor. brs. S. 16 lks. dist.; thence parallel to and N. of lane.
- 80.00 Set an iron post 3 ft. long, 3 ins. in diam., 24 ins. in the ground for reestablished cor. of secs. 2, 3, 34 and 35, with a brass cap, marked,
T 11 S in N.,
R 23 E in E., and
T 12 S, 1913 in S. half;
S 34 in NW.,
S 35 in NE.,
S 2 in SE., and
S 3 in SW. quadrant;
dig pits 18x18x12 ins. in each sec. $5\frac{1}{2}$ ft. dist., and raise a mound of earth 4 ft. base, 2 ft. high, west of cor.

74. Resurvey of North boundary of Township 12 South, Range 23 E.

Chains.

Land, level.

Soil, loose, red sandy loam, medium texture, 12 to 18 ins. deep on clay subsoil.

Good grass, scattering mesquite brush, 2 to 3 ft. high.

No timber.

Note: No evidence of an original cor. could be found. along this mile.

Thence I run,

N. 89°56'E., on true line, bet. secs. 2 and 35.

Over level prairie land.

1.50 Small cabin brs. N. 1 ch. dist.

2.00 Wire fence, brs. N. and S. SE. cor. of fence brs. S. 10 lks. dist.; thence across N. and S. lane.

3.00 Wire fence, brs. N. and S.; leave lane; SW. cor. of fence brs. S. 10 lks. dist.; thence through yard.

4.50 G. L. Monzingo's house, brs. N. 50 lks. dist.

5.50 Yard fence, brs. N. and S.; corner of yard brs. S. 10 lks. dist.; thence through field.

35.00 Wire fence brs. N. 89°E., S. 89°W.; leave field.

40.00 Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in the ground for reestablished $\frac{1}{4}$ sec. cor., with a brass cap, marked, $\frac{1}{4}$ S 35 in N., and

S 2, 1913 in S. half;

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

74.00 Roy Hardenbrook's house brs. N. 3 chs. dist.

79.50 SE. cor. of wire fence, brs. N. 50 lks. dist.

80.00 Set an iron post 3 ft. long, 3 ins. in diam., 24 ins. in the ground for reestablished cor. of secs. 35 and 36, T. 11 S., R. 23 E., with a brass cap, marked,

T 11 S in N.,

R 23 E in E., and

T 12 S 1913 in S. half;

S 35 in NW., and

S 36 in NE. quadrants;

dig pits 24x24x12 ins., in each sec. 6 ft. dist., and raise mound of earth 4 ft. base, 2 ft. high, north of corner.

From the above described cor., old corner of secs. 1, 2, 35 and 36, which is a charred redwood stake $\frac{1}{2}$ in. square, 6 ins. long, deposited 10 ins. under ground, brs. S. 28°W., 13 lks. dist. I destroy all trace of this old cor.

Lines of wire fences on south and west side of pasture intersect at above described old cor.

Land, level.

Soil, loose, red sandy loam, medium texture, 12 to 18 ins. deep on clay subsoil.

Good grass.

No timber.

Thence I run,

N. 89°56'E., on true line, along south bdy. of sec. 36, Tp. 11 S., R. 23 E.

Over level land, through scattering yuccas, 4 to 7 ft. high.

.10 Phone line, brs. N. 10° W., S. 10° E.

1.00 Wire fence brs. NW. and SE.; thence parallel to and 10 lks. north of wire fence.

40.00 Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in the ground for reestablished $\frac{1}{4}$ sec. cor., with a brass cap, marked, $\frac{1}{4}$ S 36 in N., and

1913 in S. half;

Retracement of West bdrs. of Ts. 12 and 13 S., R. 23 East 75.

Chains.

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

79.00 Wire fence brs. NE. and SW.; thence through lane.
80.00 The cor. of Ts, 11 S., Rs. 23 and 24 E., reestablished by me, as hereinbefore described.

Land, level.
Soil, loose, red sandy loam, medium texture, 12 to 18 ins. deep on clay subsoil.
Good grass, scattering yuccas, 4 to 7 ft. high.
No timber.

Aug. 10, 1913.

Retracement of WEST Boundaries of Ts. 12 & 13 S., R. 23 E.

Aug. 11th, 1913: At 9h. 0m., a.m., l.m.t., I set off $15^{\circ} 20\frac{1}{2}'$ N. on decl. arc; $32^{\circ} 25\frac{1}{2}'$ on lat. arc, and determine a meridian with the solar at the reestablished cor. of Ts. 11 and 12 S., Rs. 22 and 23 E. hereinbefore described.

Thence I run,
40.24 South, on random line, bet. secs. 1 and 6.
Fall 5 lks. west of original $\frac{1}{4}$ sec. cor., which is a malpais stone 6x8x14 ins., set in mound of stone, and marked as described by Surveyor General.

Thence I run,
40.00 South, on random line, bet. secs. 1 and 6 on south half mile.
Fall 49 lks. west of original cor. of secs. 1, 6, 7 and 12, which is a malpais stone 14x12x10 ins., set in mound of stone, and marked as described by the Surveyor General.

Thence I run,
40.25 South on random line, bet. secs. 7 and 12.
Fall 25 lks. west of original $\frac{1}{4}$ sec. cor., which is a malpais stone 10x12x10 ins., firmly set, marked and witnessed as described by the Surveyor General.

Thence I run,
40.15 South, on random line, bet. secs. 7 and 12, on south half mile.
Fall 18 lks. west of original cor. of secs. 7, 12, 13 and 18, which is a granite stone 14x5x12 ins. above ground, firmly set, marked and witnessed as described by the Surveyor General.

Thence I run,
40.00 South, on random line, bet. secs. 13 and 18.
80.00 Make diligent search for original $\frac{1}{4}$ sec. cor., which I fail to find.
80.00 Make diligent search for original cor. of secs. 13, 18, 19 and 24, which I also fail to find.

Therefore, I continue my random line south, making diligent search for original $\frac{1}{4}$ sec. and sec. cors. at intervals of 40 chs., but fail to find any evidence of original cors. on this line, until at
803.23 Fall 6 lks. east of original cor. of Ts. 13 and 14 S., Rs. 22 and 23 E., which is a granite stone 8x6x8 ins. above ground, firmly set, marked and witnessed as described by Surveyor General.

August 11th, 1913.

76. Blank line between Ranges 22 and 23 East, Township 13 S.
Chains.

Aug. 12th, 1913: At 8h. 30m. a.m., l.m.t., I set off $15^{\circ} 03' N.$ on decl. arc; $32^{\circ} 15'$ on lat. arc, and determine a meridian with the solar at the original cor. of Ts. 13 and 14 S., Rs. 22 and 23 E., described above.

Thence I run,
North, on blank line, brs. Rs. 22 and 23 E.

481.93 Set an iron post 3 ft. long, 3 ins. in diam., 24 ins. in the ground, for reestablished cor. of Ts. 12 and 13 S., Rs. 22 and 23 E., with a brass cap, marked,

T 12 S in N.,
R 23 E in E.,
T 13 S 1913 in S., and
R 22 E in W. half;
S 36 in NW.,
S 31 in NE.,
S 6 in SE., and
S 1 in SW. quadrant; from which,

A post oak, 12 ins. in diam., brs. $N. 16\frac{1}{4}^{\circ} W.$, 172 lks. dist., marked T 12 S R 22 E S 36 B T.
A white oak, 12 ins. in diam., brs. $N. 26\frac{1}{4}^{\circ} E.$, 150 lks. dist., marked T 12 S R 23 E S 31 B T.
A white oak, 10 ins. in diam., brs. $S. 75\frac{1}{4}^{\circ} E.$, 115 lks. dist., marked T 13 S R 23 E S 6 B T.
A white oak, 14 ins. in diam., brs. $S. 17\frac{1}{2}^{\circ} W.$, 155 lks. dist., marked T 13 S R 22 E S 1 B T.

Note: At the temp. point for cor. of secs. 13, 18, 19 and 24, T. 13 S., Rs. 22 and 23 E., I set off $15^{\circ} 0' N.$ on decl. arc, and at 12h. 4m. 58secs. p.m., l.m.t., observe the sun on the meridian, and obtain a reading of $32^{\circ} 17\frac{1}{2}'$ on lat. arc.

Aug. 12th, 1913.

Retracement and Resurvey of South bdy. of Township 12 S. R. 23 E.

Aug. 13th, 1913: At 8h. 30m. a.m., l.m.t., I set off $14^{\circ} 45' N.$ on decl. arc; $32^{\circ} 20'$ on lat. arc; and determine a meridian with the solar at the point for orig. cor. of secs. 3, 4, 33 and 34, Ts. 12 and 13 S., R 23 E. hereinbefore described.

Thence I run,
West, on random line, bet. secs. 4 and 33.

40.00 Make diligent search for original $\frac{1}{4}$ sec. cor., which I fail to find.

80.00 Make diligent search for original cor. of secs. 4, 5, 32 and 33, which I also fail to find.

Therefore, I continue my random line west, making diligent search for original $\frac{1}{4}$ sec. and sec. cors. at intervals of 40 chs., but fail to find any evidence of same.

239.38 Fall 150 lks. north of cor. of Ts. 12 and 13 S., Rs. 22 and 23 E. reestablished by me, as hereinbefore described.

At this cor., I set off $14^{\circ} 42' N.$ on decl. arc, and at 12h. 4m. 48s., p.m., l.m.t., observe the sun on the meridian, and obtain a reading of $32^{\circ} 20'$ on lat. arc.

Thence I run,
 $N. 89^{\circ} 39' E.$, on true line, bet. secs. 6 and 31.

Over rough, mountainous land, ascending rocky NW. slope, 100 ft. from cor.

5.00 Summit of spur slopes north; descend rocky east slope, 200 ft.

15.00 Dry rocky wash, 30 lks. wide, 3 ft. deep, course north; thence ascend rocky west slope, 100 ft.

19.00 Summit of spur, slopes north; thence descend rocky NE. slope, 100 ft.

23.00 Dry rocky wash, 15 lks. wide, 4 ft. deep, course north; thence ascend rocky NW. slope, 150 ft.

33.00 Summit of ridge, brs. NE. and SW.; thence descend along rocky SE. slope, 400 ft.

Resurvey of South bdy. of T.12 S., R.23 E. 77.

Chains.

- 39.08 (Proportional distance). Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in the ground for reestablished $\frac{1}{4}$ sec. cor., with a brass cap, marked, $\frac{1}{4}$ S 31 in N., and S 6, 1913 in S. half; from which,
 A post oak, 10 ins. in diam., brs. N. $76\frac{3}{4}^{\circ}$ E., 414 lks. dist., marked $\frac{1}{4}$ S 31 B T.
 A post oak, 8 ins. in diam., brs. S. $11\frac{3}{4}^{\circ}$ W., 293 lks. dist., marked $\frac{1}{4}$ S 6 B T.
- 47.00 Dry rocky wash, 1 ch. wide, 15 ft. deep, course SE.
- 65.00 Foot of rocky descent; thence over slightly rolling prairie land.
- 79.14 (Proportional distance.) Set an iron post 3 ft. long, 3 ins. in diam., 24 ins. in the ground for reestablished cor. of secs. 5, 6, 31 and 32, with a brass cap, marked,
 T 12 S in N.,
 R 23 E in E., and
 T 13 S 1913 in S. half,
 S 31 in NW.,
 S 32 in NE.,
 S 5 in SE., and
 S 6 in SW. quadrant; Pits impracticable.
 raise mound of stone 3 ft. base, 3 ft. high, west of cor.
 Land, rough, mountainous.
 Soil, thin and rocky.
 Good grass.
 Scattering post oak and juniper trees.

Thence I run,
 N. $89^{\circ}39'$ E., on true line, bet. secs. 5 and 32.
 Over rolling, rocky land.

- 40.06 (Proportional distance.) Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in the ground, for reestablished $\frac{1}{4}$ sec. cor., with a brass cap, marked,
 $\frac{1}{4}$ S 32 in N., and
 S 5, 1913 in S. half; from which,
 A white oak, 30 ins. in diam., brs. N. $78\frac{1}{2}^{\circ}$ E., 484 lks. dist., marked $\frac{1}{4}$ S 32 B T.
 A black oak, 24 ins. in diam., brs. S. $23\frac{1}{2}^{\circ}$ E., 289 lks. dist., marked $\frac{1}{4}$ S 5 B T.
- 45.00 Dry bed of creek, 70 lks. wide, 7 ft. deep, course NE.
- 63.00 Dim wagon road, brs. N. 85° E., S. 85° W.
- 80.12 (Proportional distance.) Set an iron post 3 ft. long, 3 ins. in diam., 24 ins. in the ground for reestablished cor. of secs. 4, 5, 32 and 33, with a brass cap, marked
 T 12 S in N.,
 R 23 E in E., and
 T 13 S 1913 in S. half;
 S 32 in NW.,
 S 33 in NE.,
 S 4 in SE., and
 S 5 in SW. quadrant;
 raise mound of stone 2 ft. base, 2 ft. high, west of cor.
 Pits impracticable.
 Land, rolling.
 Soil, thin and rocky.
 Good grass.
 Scattering oak and walnut trees, along dry bed of creek.

Thence I run,
 N. $89^{\circ}39'$ E., on true line, bet. secs. 4 and 33.
 Over slightly rolling land.

- 10.00 Wagon road brs. NW. and SE.
- 40.06 (Proportional distance.) Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in the ground for $\frac{1}{4}$ sec. cor., with reestab.

78 Resurvey of South bdy. of Township 12 South Range 23 E

Chains.

- a brass cap, marked,
 $\frac{3}{4}$ S 33 in N., and
 S 4, 1913 in S. half;
 raise mound of stone $2\frac{1}{2}$ ft. base, 2 ft. high, north of
 cor. Pits impracticable.
- 56.00 Dry wash, 10 lks. wide, 1 ft. deep, course N. 15° E.
 80.12 Intersect point for original cor. of secs. 3, 4, 33 and 34,
 hereinbefore described. This old cor. being in a
 state of dilapidation, I destroy all trace of same, and
 reestablish it in the same place, as follows:
 Set an iron post 3 ft. long, 3 ins. in diam., 24 ins. in
 ground, with a brass cap, marked,
 T 12 S in N.,
 R 23 E in E. and
 T 13 S 1913 in S. half;
 S 33 in NW.,
 S 34 in NE.,
 S 3 in SE., and
 S 4 in SW. quadrant;
 dig pits 18x18x12 ins. in each sec. $5\frac{1}{2}$ ft. dist., and
 raise a mound of earth 4 ft. base, 2 ft. high, west of
 corner.
- Land, level and rolling.
 Soil, loose, gravelly, sandy loam, medium texture, 8 to 14
 ins. deep on clay subsoil.
 Good grass, scattering mesquite brush, 2 to 3 ft. high.
 No timber.
- Aug. 13th, 1913.
-
- Aug. 14th, 1913: At 8h. 30m. a.m., l.m.t., I set off 14°
 $26'$ N. on decl. arc; $32^{\circ}20'$ on lat. arc, and determine
 a meridian with the solar at the cor. of secs. 3, 4, 33 and
 34, reestablished by me, as described above.
 Thence I run,
 N. $89^{\circ}52'$ E., on true line bet. secs. 3 and 34.
 Over slightly rolling land, through mesquite brush, 3 to
 4 ft. high.
- 40.015 (Proportional distance.) Set an iron post 3 ft. long,
 1 in. in diam., 26 ins. in the ground, for reestablish-
 ed $\frac{1}{4}$ sec. cor., with a brass cap, marked,
 $\frac{1}{4}$ S 34 in N., and
 S 3, 1913 in S. half;
 dig pits 18x18x12 ins. E and W. of post 3 ft. dist.,
 and raise mound of earth $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high, N.
 of cor.
- 80.03 (Proportional distance.) Set an iron post 3 ft. long, 3 ins.
 in diam., 24 ins. in the ground for reestablished cor.
 of secs. 2, 3, 34 and 35, with a brass cap, marked,
 T 12 S in N.,
 R 23 E in E.,
 T 13 S 1913 in S. half;
 S 34 in NW.,
 S 35 in NE.,
 S 2 in SE., and
 S 3 in SW. quadrant;
 dig pits 18x18x12 ins. in each sec. $5\frac{1}{2}$ ft. dist., and
 raise a mound of earth 4 ft. base, 2 ft. high, west of
 corner.
- Land, level and rolling.
 Soil, red, sandy loam, medium texture, 12 to 18 ins. deep
 on clay subsoil.
 Scattering grass, mesquite brush, 3 to 4 ft. high.
 No timber.
-
- Thence I run,
 N. $89^{\circ}52'$ E., on true line, bet. secs. 2 and 35.

Resurvey of South bdy. of Township 12 South Range 23 East, 79.

Chains.

- Over slightly rolling land, through mesquite brush 3 to 5 ft. high.
- .50 Dry shallow wash, 40 lks. wide, course SE.
- 40.015 (Proportional distance). Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in the ground for reestablished $\frac{1}{4}$ sec. cor., with a brass cap, marked,
 $\frac{1}{4}$ S 35 in N., and
 S 2, 1913 in S. half;
 dig pits 18x18x12 ins., E and W. of post, 3 ft. dist., and raise mound of earth $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high, N. of cor.
- 80.03 (Proportional distance.) Set an iron post 3 ft. long, 3 ins. in diam., 24 ins. in the ground, for reestablished cor. of secs. 1, 2, 35 and 36, with a brass cap, marked,
 T 12 S in N.,
 R 23 E in E., and
 T 13 S 1913 in S. half;
 S 35 in NW.,
 S 36 in NE.,
 S 1 in SE., and
 S 2 in SW quadrant;
 dig pits 18x18x12 ins., in each sec. $5\frac{1}{2}$ ft. dist., and raise mound of earth 4 ft. base, 2 ft. high, west of cor.
 Land, level and rolling.
 Soil, red, sandy loam, medium texture, 12 to 18 ins. deep on clay subsoil.
 Scattering grass. mesquite brush, 3 to 4 ft. high.
 No timber.

- Thence I run,
 N. $89^{\circ}52'$ E., on true line, bet. secs. 1 and 36.
 Over slightly rolling land, through mesquite brush, 3 to 4 ft. high.
- .50 Wire fence, brs. N. and S. NW. cor. of fence, brs. N. 50 lks. dist.; thence through north edge of field.
- 32.00 Wire fence, brs. N. and S. Corner of fence brs. N. 15 lks. thence along north edge of cultivated field.
- 33.00 House brs. S 3 chs. dist.
- 36.50 Wire fence brs. N. and S. Corner of wire fence brs. N. 15 lks. dist.; leave north edge of cultivated land; thence through mesquite brush.
- 40.015 (Proportional distance.) Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in the ground, for reestablished $\frac{1}{4}$ sec. cor., with a brass cap, marked,
 $\frac{1}{4}$ S 36 in N., and
 S 1, 1913 in S. half;
 dig pits 18x18x12 ins., E. and W. of post, 3 ft. dist., and raise mound of earth $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high, north of cor.
- 40.50 Wire fence, brs. N. and S. Corner of fence brs. N. 15 lks. dist.
- 60.00 Wire fence, brs. N. 89° W., S. 89° E.; thence along south side of lane.
- 80.03 Intersect cor. of Ts. 12 and 13 S., Rs. 23 and 24 E., reestablished by me, as hereinbefore described.
 Land, level and rolling.
 Soil, loose, sandy loam, medium texture, 12 to 13 ins. deep on clay subsoil.
 Scattering grass. mesquite brush, 3 to 4 ft. high.
 No timber.

Aug. 14th, 1913.

80. Boundaries of Township 12 South, Range 23 East.

Latitudes, departures, and closing errors.						
Line designated.	True bearing.	Dist.	Latitudes.		Departures.	
			N.	S.	E.	W.
South bdy.,	S.89°52'W.	240.09		0.56		240.09
	S.89°39'W.	239.38		1.46		239.38
West bdy.	N.0°07'W.	481.93	481.93			0.98
North bdy.,	N.89°56'E.	479.32	0.56		479.32	
East bdy.,	South.	480.00		480.00		
Convergency,					0.46	
Totals,-----			482.49	482.02	479.78	480.45
			482.02			479.78
Error in latitude,----			0.47			
Error in departure,-----						0.67

Resurvey of East bdy. of Township 12 S., Range 22 East.

Aug. 15th, 1913: At 8h. 30m. a.m., l.m.t., I set off 14° 08' N. on decl. arc; 32° 20' on lat. arc, and determine a meridian with the solar, at the cor. of Ts. 12 and 13 S., Rs. 22 and 23 E., reestablished by me, as hereinbefore described.

Thence I run,
 N.0°07' W., on true line, along east bdy. of sec. 36.
 Over rough, mountainous land, through scattering scrub oak and juniper timber.
 Descending rocky NW. slope, 100 ft.

21.00 Wagon road, brs. NE. and SW.; thence over rolling land.
 31.00 Dry rocky wash, 50 lks. wide, 6 ft. deep, course NE.
 40.00 Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in the ground, for reestablished $\frac{1}{4}$ sec. cor., with a brass cap, marked,
 $\frac{1}{4}$ S 36 in W., and
 1913 in S. half; from which,
 A post oak, 12 ins. in diam., brs. N. 70 $\frac{3}{4}$ ° E., 62 lks. dist., marked $\frac{1}{4}$ S 31 B T.
 A black jack, 8 ins. in diam., brs. S. 30 $\frac{1}{4}$ ° W., 47 lks. dist., marked $\frac{1}{4}$ S 32 B T.

42.50 Dry rocky wash, 1 ch. wide, 6 ft. deep, course east.
 43.00 Wagon road, brs. E. and W.; thence ascend rocky S. slope, 50 ft.

45.00 Top of ascent; thence descend 30 ft.
 50.00 Small dry wash, course SE.
 58.00 Dry rocky wash, 25 lks. wide, 10 ft. deep, course SE. Thence ascend rocky south slope, 200 ft.

70.00 Summit of spur slopes SE.; thence along rocky east slope.
 80.00 Set an iron post $\frac{3}{4}$ ft. long, 3 ins. in diam., 24 ins. in the ground for reestablished cor. of secs. 25 and 36, with a brass cap, marked,
 T 12 S in N.,
 R 23 E in E., and
 1913 in S. half;
 R 22 E S 25 in NW., and
 S 36 in SW. quadrant; from which,
 A post oak, 10 ins. in diam., brs. S. 42° W., 77 lks. dist., marked T 12 S R 22 E S 36 B T.
 A post oak, 12 ins. in diam., brs. N. 51 $\frac{1}{2}$ ° W., 94 lks. dist., marked T 12 S R 22 E S 25 B T.

Land, rough, mountainous.
 Soil, thin and rocky.
 Good grass.
 Scattering scrub oak and juniper timber.

Chains.

- Thence I run,
N.0°07'W., on true line, along east bdy. of sec. 25.
Over rough, rocky, mountain land,
- 2.00 Dry rocky wash, 50 lks. wide, 10 ft. deep, course SE.; thence ascend rocky SW. slope, 700 ft.
- 23.00 Summit of ridge, brs. E. and W.; thence descend rocky, N. slope, 700 ft.
- 35.00 Dry rocky gulch, 10 lks. wide, 15 ft. deep, course NW.
- 40.00 Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in the ground, for reestablished $\frac{1}{4}$ sec. cor., with a brass cap, marked,
 $\frac{1}{4}$ S 25 in W., and
1913 in S. half; from which,
A black jack, 14 ins. in diam., brs. N. 61°W., 57 lks. dist., marked $\frac{1}{4}$ S 25 B T.
A black jack, 8 ins. in diam., brs. N. 60 $\frac{3}{4}$ °E., 116 lks. dist., marked $\frac{1}{4}$ S 30 B T.
- Note: At the above described cor., I set off 14°05'N. on decl. arc, and at 12h. 4m. 26s., p.m., l.m.t., observe the sun on the meridian, and obtain a reading of 32° 21 $\frac{1}{2}$ ' on lat. arc.
- 50.00 Foot of descent; dry rocky wash, 40 lks. wide, 6 ft. deep, course east; thence over rolling, rough land.
- 65.00 Dry rocky wash, 30 lks. wide, 5 ft. deep, course NE.
- 78.00 Dry rocky wash, 50 lks. wide, 4 ft. deep, course NW.
- 80.00 Set an iron post 3 ft. long, 3 ins. in diam., 24 ins. in the ground, for reestablished cor. of secs. 24 and 25, with a brass cap, marked,
T 12 S in N.,
R 23 E in E.,
1913 in S., and
R 22 E in W. half;
S 24 in NW., and
S 25 in SW. quadrant; from which,
A blackjack 5 ins. in diam., brs. N. 66°W., 66 lks. dist., marked T 12 S R 22 E S 24 B T.
A post oak, 8 ins. in diam., brs. S. 77°W., 25 lks. dist., marked T 12 S R 22 E S 25 B T.
- Land, rough, mountainous.
Soil, thin and rocky.
Good grass.
Scattering scrub oak and juniper timber.

- Thence I run,
N.0°07'W., on true line, along east bdy. of sec. 24.
Over rolling, mountainous land, through scattering scrub oak and juniper timber.
- .50 Dry rocky wash, 30 lks. wide, 3 ft. deep, course east.
- 2.00 Dry rocky wash, 50 lks. wide, 2 ft. deep, course east; thence ascend rocky south slope, 100 ft.
- 12.00 Summit of spur, slopes east; descend rocky N. slope, 150 ft.
- 22.00 Wagon road, brs. E. and W.
- 23.00 Dry rocky wash, 50 lks. wide, 3 ft. deep, course east.
- 30.00 Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in the ground, for witness cor. to $\frac{1}{4}$ sec. cor., with a brass cap, marked,
W C $\frac{1}{4}$ in N. half;
S 24 in W., and
1913 in S. half; from which,
A blackjack, 6 ins. in diam., brs. S. 44 $\frac{1}{2}$ °E., 127 lks. dist., marked W C $\frac{1}{4}$ S 19 B T.
A blackjack, 10 ins. in diam., brs. S. 38 $\frac{3}{4}$ °W., 162 lks. dist., marked W C $\frac{1}{4}$ S, 24 B T.
- Thence ascend steep rocky south slope, 800 ft.
- 40.00 Point for $\frac{1}{4}$ sec. cor. falls in rocky craig, and is inaccessible.

82. Resurvey of East bdy. of Township 12 South, Range 22 East.

Chains.

- 57.00 Summit of ridge, brs. E. and W.; thence descend steep, rocky N. slope 800 ft.
- 78.00 Dry rocky wash, 20 lks. wide, 3 ft. deep, course NW.; thence along rocky west slope.
- 80.00 Set an iron post 3 ft. long, 3 ins. in diam., 24 ins. in the ground, for reestablished cor. of secs. 13 and 24, with a brass cap, marked,
 T 12 S in N.,
 R 23 E in E., and
 1913 in S. half;
 R 22 E in W. half;
 S 13 in NW., and
 S 24 in SW. quadrant; from which,
 A post oak, 12 ins. in diam., brs. N. 22° W., 80 lks. dist., marked T 12 S R 22 E S 13 B T.
 A black jack, 8 ins. in diam., brs. S. 51° W., 68 lks. dist., marked T 12 S R 22 E S 24 B T.
- Land, rough, mountainous.
 Soil, thin and rocky.
 Good grass.
 Scattering scrub oak and juniper timber.

Aug. 15th, 1913.

Aug. 16th, 1913: At 8h. 30m. a.m., l.m.t., I set off $13^{\circ} 49'$ N. on decl. arc; $32^{\circ} 22\frac{1}{2}'$ on lat. arc; and determine a meridian with the solar at the cor. of secs. 13 and 24, reestablished by me, as described above.

Thence I run,

N. $0^{\circ} 07'$ W., on true line, along east bdy. of sec. 13.

Over rough, mountainous land, through scattering scrub oak timber.

- 3.00 Descend rocky N. slope, 400 ft.
- 23.00 Wagon road, brs. SW. and NE.
- 25.00 Dry rocky wash, 1 ch. wide, 12 ft. deep, course NE.; thence ascend rocky SE. slope, 100 ft.
- 40.00 Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in the ground, for reestablished $\frac{1}{4}$ sec. cor., with a brass cap, marked,
 $\frac{1}{4}$ S 13 in W., and
 1913 in S. half; from which,
 A post oak, 14 ins. in diam., brs. S. 52° E., 61 lks. dist., marked $\frac{1}{4}$ S 18 B T.
 A blackjack, 8 ins. in diam., brs. S. $63\frac{3}{4}^{\circ}$ W., 106 lks. dist., marked $\frac{1}{4}$ S 13 B T.
- 50.00 Summit of spur slopes east; thence descend rocky NE. slope, 100 ft.
- 67.00 Dry rocky wash, 50 lks. wide, 3 ft. deep, course east; thence over rolling, rocky land.
- 80.00 Set an iron post 3 ft. long, 3 ins. in diam., 24 ins. in the ground for reestablished cor. of secs. 12 and 13, with a brass cap, marked,
 T 12 S in N.,
 R 23 E in E.,
 1913 in S., and
 R 22 E in W. half;
 S 12 in NW., and
 S 13 in SW. quadrant; from which,
 A post oak, 12 ins. in diam., brs. S. $49\frac{1}{2}^{\circ}$ W., 32 lks. dist., marked T 12 S R 22 E S 13 B T.
 A post oak, 18 ins. in diam., brs. N. $84\frac{1}{2}^{\circ}$ W., 135 lks. dist., marked T 12 S R 22 E S 12 B T.
- Land, rolling and mountainous.
 Soil, thin and rocky.
 Good grass.
 Scattering scrub oak timber.
- Note: From the above described cor., original cor. of secs. 7, 12, 13 and 18, hereinbefore described, brs. N. 45° E., 91 lks. dist.; I destroy all trace of this old cor.

Resurvey of East boundary of Township 12 South, Range 22 East. 83.

Chains.

- Thence I run,
N.0°07' W., on true line, along east bdy. of sec. 12.
Over rolling, rocky land, through scattering scrub oak
timber.
- 11.00 Dry rocky wash, 30 lks. wide, 4 ft. deep, course east.
26.00 Dry rocky wash, 50 lks. wide, 2 ft. deep, course east.
40.00 Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in
ground, for reestablished $\frac{1}{4}$ sec. cor., with a brass cap,
marked,
 $\frac{1}{4}$ S 12 in W., and
1913 in S. half; from which,
A post oak, 14 ins. in diam., brs. N. 34° E., 177
lks. dist., marked $\frac{1}{4}$ S 7 B T.
A post oak, 12 ins. in diam., brs. S. 88 $\frac{1}{4}$ ° W., 52
lks. dist., marked $\frac{1}{4}$ S 12 B T.
- Note: From this cor., old $\frac{1}{4}$ sec. cor., bet. secs. 7 and 12,
hereinbefore described, brs. N. 20 $\frac{1}{2}$ ° E., 154 lks. dist. I
destroy all trace of this old cor.
- 50.00 Dry rocky wash, 50 lks. wide, 5 ft. deep, course east;
leave scattering scrub oak timber, brs. E. and W.; thence
over open prairie land.
- 65.00 Dim wagon road, brs. NE. and SW.
78.00 Dim wagon road, brs. NW. and SE.
80.00 Set an iron post 3 ft. long, 3 ins. in diam., 24 ins. in
the ground, for reestablished cor. of secs. 1 and 12,
with a brass cap, marked,
T 12 S in N.,
R 23 E in E.,
1913 in S. and
R 22 E in W. half;
S 1 in NW., and
S 12 in SW. quadrant;
raise mound of stone 3 ft. base, 3 ft. high, west of
cor. Pits impracticable.
From the above described cor., the original cor. of secs. 1,
6, 7 and 12, hereinbefore described, brs. N. 12 $\frac{1}{2}$ ° W., 172
lks. dist. I destroy all trace of this old cor.
Land, rolling.
Soil, thin and rocky.
Good grass.
Scattering scrub oak timber.

- Thence I run,
N.0°07' W., on true line, along east bdy. of sec. 1.
Ascending gentle S. slope, over open prairie land.
- 22.00 Summit of low ridge, brs. E. and W.; thence descend N. slope,
150 ft.
- 32.00 Dry wash, 15 lks. wide, 1 ft. deep, course NE.
40.00 Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in
the ground for reestablished $\frac{1}{4}$ sec. cor. with a brass
cap, marked,
 $\frac{1}{4}$ S 1 in W., and
1913 in S. half;
raise mound of stone 2 ft. base, 2 ft. high, west of cor.
Pits impracticable.
From the above described cor., original $\frac{1}{4}$ sec. cor. herein-
before described, brs. N. 1° W., 169 lks. dist. I destroy
all trace of this old cor.
- 42.00 Wire fence brs. E. and W. Cor. of wire fence brs. W. 5 chs.,
and E. 10 chs. dist.; enter cultivated land.
- 47.00 Leave wire fence, brs. E. and W.; leave cultivated land.
49.00 Dry wash, 20 lks. wide, 2 ft. deep, course east; thence
over rolling, prairie land
- 81.93 The cor. of Ts. 11 and 12 S., Rs. 22 and 23 E., reestablished
by me, as hereinbefore described.
Land, rolling.
Soil, thin and rocky on S. half; loose, gravelly, sandy
loam, 8 to 14 ins. deep on N. half.
Good grass, scattering mesquite brush, 2 to 3 ft. high on
N. end of line. No timber.

Aug. 16, 1913.

84. Resurvey of East boundary of Township 12 S. Range 24 East.

Chains.

Resurvey commenced Sept. 1st, 1913, and executed by Thomas B. Matthews, U.S. Surveyor, with Young and Sons' light mountain transit No. 8480, previously described. I examine the adjustments of the transit, and find them to be correct, and know from recent tests of the solar apparatus, by comparing its indications resulting from solar observations made during a.m. and p.m. hours, with a meridian established by observation on Polaris, at elongation that the instrument is in satisfactory adjustment.

At 10^h. 0m. a.m., l.m.t., I set off $8^{\circ} 20\frac{1}{2}'$ N. on decl. arc; $32^{\circ} 20'$ on lat. arc, and determine a meridian with the solar at the cor. of Ts. 12 and 13 S., Rs. 24 and 25 E., reestablished by me; as hereinbefore described.

The magnetic bearing of the true meridian thus established is N. $12^{\circ} 53'$ W.; the angle thus determined gives the magnetic decl. $12^{\circ} 53'$ E.

Thence I run,

North, on true line, bet. secs. 31 and 36.

Over slightly rolling land, through mesquite brush, 3 to 5 ft. high.

.50 Wagon road, brs. N. 30° W., S. 30° E.

22.00 Foot of rocky hill, brs. NW. and SE.; ascend rocky SW. slope, 150 ft.

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

$\frac{1}{4}$ S 36 in W.,
S 31 in E., and
1913 in S. half;

raise mound of stone $2\frac{1}{2}$ ft. base, $2\frac{1}{2}$ ft. high, west of cor. Pits impracticable.

From the above described corner, original $\frac{1}{4}$ sec. cor., which is the decayed remains of juniper post in mound of stone; marks nearly obliterated, brs. N. 23° W., 27 lks. dist. from new corner. I destroy all trace of this old cor.

43.00 Dry rocky wash, 50 lks. wide, 7 ft. deep, course west.

51.00 Summit of spur slopes west; thence descend rocky NW. slope.

65.00 Foot of descent; thence along rocky west slope.

80.00 Set an iron post 3 ft. long, 3 ins. in diam., 24 ins. in ground, for reestablished cor. of secs. 25, 30, 31 and 36 with a brass cap, marked,

T 12 S in N., and
1913 in S. half;
R 24 E S 25 in NW.,
R 25 E S 30 in NE.,
S 31 in SE., and
S 36 in SW. quadrant;

raise mound of stone $2\frac{1}{2}$ ft. base, 2 ft. high, west of cor. Pits impracticable.

From the above described cor., original cor. of secs. 25, 30, 31 and 36, which is remains of mound of stone, brs. N. 22° E., 65 lks. dist. I destroy all trace of this old cor.

Land, rolling and mountainous.

Soil, thin and rocky.

Good grass, scattering mesquite brush, 3 to 5 ft. high.

No timber.

Thence I run,

North, bet. secs. 25 and 30.

Over rolling land.

1.00 Dry rocky wash, 10 lks. wide, 1 ft. deep, course west.

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

$\frac{1}{4}$ S 25 in W.,
S 30 in E., and
1913 in S. half;

Resurvey of East boundry of Township 12 South, Range 24 East. 85.

Chains.	
44.90 80.00	<p>dig pits 18x18x12 ins., N. and S. of post, 3 ft. dist., and raise mound of earth $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high, west of cor. Wagon road, brs. N. 30° E., S. 30° W.</p> <p>Set an iron post 3 ft. long, 3 ins. in diam., 24 ins. in ground, for reestablished cor. of secs. 19, 24, 25 and 30, with a brass cap, marked,</p> <p style="padding-left: 40px;">T 12 S in N., and 19$\frac{1}{3}$ in S. half; R 24 E S 24 in NW., R 25 E S 19 in NE., S 30 in SE., and S 25 in SW. quadrant;</p> <p>dig pits 18x18x12 ins. in each sec. $5\frac{1}{2}$ ft. dist., and raise mound of earth 4 ft. base, 2 ft. high, west of cor. Land, level and rolling. Soil, loose, red sandy loam, medium to coarse texture, 6 to 18 ins. deep on clay subsoil. Good grass. No timber.</p>
3.00 20.75 40.00	<p>Thence I run, North, bet. secs. 19 and 24. Over level prairie land.</p> <p>SE. cor. of wire fence, brs. W. 4 chs. dist. J. M. Hollandsworth's house brs. west 8 chs. dist.</p> <p>Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in the ground for reestablished $\frac{1}{4}$ sec. cor., with a brass cap, marked,</p> <p style="padding-left: 40px;">$\frac{1}{4}$ S 24 in W., S 19 in E., and 19$\frac{1}{3}$ in S. half;</p> <p>raise mound of stone 2 ft. base, 2 ft. high, west of cor. Pits impracticable.</p>
42.00 80.00	<p>NE. cor. of wire fence brs. west 4 chs. dist.</p> <p>Set an iron post 3 ft. long, 3 ins. in diam., 24 ins. in the ground for reestablished cor. of secs. 13, 18, 19 and 24, with a brass cap, marked,</p> <p style="padding-left: 40px;">T 12 S in N., and 19$\frac{1}{3}$ in S. half; R 24 E S 13 in NW., R 25 E S 18 in NE., S 19 in SE., and S 24 in SW. quadrant;</p> <p>dig pits 18x18x12 ins., in each sec. $5\frac{1}{2}$ ft. dist., and raise mound of earth 4 ft. base, 2 ft. high, west of cor. Land, level. Soil, loose, red, sandy loam, medium texture, 12 to 18 ins. deep on clay subsoil. Good grass. No timber.</p> <p>At the above described cor., I set off $8^{\circ} 19'$ N. on decl. arc; and at 12h. 0m. 4secs. p.m., 1.m.t., observe the sun on the meridian, and obtain a reading of $32^{\circ} 22\frac{1}{2}'$ on lat. arc.</p>
35.00 40.00	<p>Thence I run, North, bet. secs. 13 and 18. Over level prairie land.</p> <p>Dry wash, 15 lks. wide, 4 ft. deep, course SW.</p> <p>Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in the ground, for reestablished $\frac{1}{4}$ sec. cor., with a brass cap, marked,</p> <p style="padding-left: 40px;">$\frac{1}{4}$ S 13 in W., S 18 in E., and 19$\frac{1}{3}$ in S. half;</p>

86. Resurvey of East boundary of Township 12 South Range 24 E.

Chains.

dig pits 18x18x12 ins., N. and S. of post 3 ft. dist., and raise mound of earth $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high, west of corner.

64.00 Dry wash, 16 lks. wide, 2 ft. deep, course SW.

80.00 Set an iron post 3 ft. long, 3 ins. in diam., 24 ins. in the ground, for reestablished cor. of secs. 7, 12, 13 and 18, with a brass cap, marked,
 T 12 S in N., and
 1913 in S. half;
 R 24 E S 12 in NW.,
 R 25 E S 7 in NE.,
 S 18 in SE., and
 S 13 in SW. quadrant;

dig pits 18x18x12 ins., in each sec. $5\frac{1}{2}$ ft. dist., and raise mound of earth 4 ft. base, 2 ft. high, west of cor.

Land, level.
 Soil, loose, red, sandy loam, medium texture, 12 to 18 ins. deep on clay subsoil.
 Good grass, scattering yuccas, 4 to 7 ft. high.
 No timber.

Thence I run,
 North, bet. secs. 7 and 12.
 Over level prairie land.

40.00 Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in the ground, for reestablished $\frac{1}{4}$ sec. cor., with a brass cap, marked,
 $\frac{1}{4}$ S 12 in W.,
 S 7 in E., and
 1913 in S. half;

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

From the above described cor., the original $\frac{1}{4}$ sec. cor., which is a granite stone 6x8x5 ins., loosely set and marked, as described by Surveyor General, brs. N. 23° W., 232 lks. dist. I destroy all trace of this old cor.

80.00 Set an iron post 3 ft. long, 3 ins. in diam., 24 ins. in the ground, for reestablished cor. of secs. 1, 6, 7 and 12, with a brass cap, marked,
 T 12 S in N., and
 1913 in S. half;
 R 24 E S 1 in NW.,
 R 25 E S 6 in NE.,
 S 7 in SE., and
 S 12 in SW. quadrant;

dig pits 18x18x12 ins., in each sec. $5\frac{1}{2}$ ft. dist., and raise mound of earth 4 ft. base, 2 ft. high, west of cor.

Land, level.
 Soil, loose, red sandy loam, medium texture, 12 to 18 ins. deep on clay subsoil.
 Good grass, scattering yuccas, 4 to 7 ft. high.
 No timber.

Thence I run,
 North, bet. secs. 1 and 6.
 Over level prairie land, through scattering yuccas, 4 to 7 ft. high.

24.00 Dry wash, 15 lks. wide, 6 ft. deep, course SW.

40.00 Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in the ground, for reestablished $\frac{1}{4}$ sec. cor., with a brass cap, marked,
 $\frac{1}{4}$ S 1 in W.,
 S 6 in E., and
 1913 in S. half;

Resurvey of East boundary of Township 12 S., R. 24 E. 87.

Chains

dig pits 18x18x12 ins., N. and S. of post, 3 ft. dist., and raise mound of earth $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high, west of corner.

76.00

Wagon road, brs. NE. and SW.

80.00

Set an iron post 3 ft. long, 3 ins. in diam., 24 ins. in ground for reestablished cor. of Ts. 11 and 12 S., Rs. 24 and 25 E., with a brass cap, marked,

T 11 S in N.,
R 25 E in E.,
T 12 S 1913 in S., and
R 24 E in W. half;
S 36 in NW.,
S 31 in NE.,
S 6 in SE., and
S 1 in SW. quadrant;

dig pits 24x24x12 ins. on each line, E., W. and N., 4 ft. and S. of post 8 ft. dist., and raise mound of earth 5 ft. base, $2\frac{1}{2}$ ft. high, south of cor.

From the above described cor., original cor. of Ts. 11 and 12 S., Rs. 24 and 25 E., brs. N. 6° W., 220 lks. dist. This old cor. is a granite stone 5x6x8 ins., above ground, marks nearly obliterated. I destroy all trace of this old cor.

Land, level.

Soil, loose, red, sandy loam, medium texture, 12 to 18 ins. deep on clay subsoil.

Good grass, scattering yuccas, 4 to 7 ft. high.

No timber.

Sept. 1st, 1913.

Resurvey of South boundary of Township 11 S., R. 24 E.

Sept. 2nd, 1913: At 8h. 30m. a.m., l.m.t., I set off $8^\circ 0'$ N. on decl. arc; $32^\circ 25\frac{1}{2}'$ on lat. arc, and determine a meridian with the solar at the cor. of Ts. 11 and 12 S., Rs. 23 and 24 E., reestablished by me, as hereinbefore described.

Thence I run,

East, on random line, along north bdy. of Tps. 12 S., R. 24 E. setting temp. $\frac{1}{4}$ sec. and sec. cors. at intervals of 40 chs., and at 477.95 chs., fall 250 lks. north of cor. of Ts. 11 and 12 S., Rs. 24 and 25 E., reestablished by me as hereinbefore described.

Thence I run,

N. $89^\circ 42'$ W., on true line, bet. secs. 1 and 36.

Over slightly rolling land, through scattering yuccas 4 to 7 ft. high,

24.00

Dry wash, 10 lks. wide, 3 ft. deep, course SW.

40.00

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

$\frac{1}{4}$ S 36 in N., and
S 1, 1913 in S. half;

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

From the above described cor., original $\frac{1}{4}$ sec. cor., which is a granite stone, 5x6x11 ins., loosely set, and marked, as described by Surveyor General, brs. N. $03\frac{3}{4}^\circ$ E. 153 lks. dist. I destroy all trace of original cor.

80.00

Set an iron post 3 ft. long, 3 ins. in diam., 24 ins. in ground for reestablished cor. of secs. 1, 2, 35 and 36, with a brass cap, marked,

T 11 S in N.,
R 24 E in E., and
T 12 S 1913 in S. half;
S 35 in NW.,

88. Resurvey of South bdy. of Township 11 South, Range 24 E.

Chains.

S 36 in NE.,
S 1 in SE., and
S 2 in SW. quadrant;

dig pits 18x18x12 ins. in each sec. $5\frac{1}{2}$ ft. dist., and
raise mound of earth 4 ft. base, 2 ft. high, west of cor.
From the above described cor., original corner of secs.
1, 2, 35 and 36, which is a granite stone 6x8x12 ins.,
loosely set, marks nearly obliterated, brs. N. 11° E., 145
lks. dist. I destroy all trace of this old cor.

Land, rolling.

Soil, loose, gravelly, sandy loam, coarse to medium texture, 6 to 18 ins. deep on clay subsoil.

Good grass.

Scattering yuccas, 4 to 7 ft. high.

No timber.

Thence I run,
N. $89^{\circ}42'$ W. on true line, bet. secs. 2 and 35.

Over level prairie land, through scattering yuccas, 4 to 7 ft. high.

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

$\frac{1}{4}$ S 35 in N., and
S 2 1913 in S. half;

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

From the above described cor., original $\frac{1}{4}$ sec. cor., which
is a granite stone 6x6x8 ins. loosely set, and marked
as described by the Surveyor General, brs. N. $15\frac{1}{4}^{\circ}$ E.,
160 lks. dist. I destroy all trace of this old cor.

80.00 Set an iron post, 3 ft. long, 3 ins. in diam., 24 ins.
in the ground, for reestablished cor. of secs. 2, 3, 34
and 35, with a brass cap, marked,

T 11 S in N.,
R 24 E in E., and
T 12 S, 1913 in S. half;
S 34 in NW.,
S 35 in NE.,
S 2 in SE., and
S 3 in SW. quadrant;

dig pits 18x18x12 ins., in each sec. $5\frac{1}{2}$ ft. dist., and
raise mound of earth 4 ft. base, 2 ft. high, west of cor.

Note: At the above described cor. set off $7^{\circ}57'$ N. on decl. arc;
and at 11h. 59m. 46s. a.m., 1.m.t., observe the sun on
the meridian, and obtain a reading of $32^{\circ}25\frac{1}{2}'$ on lat.
arc.

Land, level.

Soil, loose, gravelly, sandy loam, coarse to medium texture, 6 to 18 ins. deep on clay subsoil.

Good grass, scattering yuccas, 4 to 7 ft. high.

No timber.

Thence I run,
N. $89^{\circ}42'$ W., on true line, bet. secs. 3 and 34.

Over level prairie land.

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

$\frac{1}{4}$ S 34 in N., and
S 3, 1913 in S. half;

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

Resurvey of South boundary of Township 11 South, Range 24 E. 89

Chains.

69.00 Dry wash, 25 lks. wide, 3 ft. deep, course SW.
 80.00 Set an iron post, 3 ft. long, 3 ins. in diam., 24 ins. in the ground for reestablished cor. of secs. 33 and 34, T. 11 S., R. 24 E., with a brass cap, marked,
 T 11 S in N.,
 R 24 E in E., and
 T 12 S 1913 in S. half;
 S 33 in NW., and
 S 34 in NE. quadrant;
 dig pits 24x24x12 ins. in each sec. 6 ft. dist., and raise mound of earth 4 ft. base, 2 ft. high, north of corner.
 Land, level.
 Soil, loose, red, sandy loam, medium texture, 12 to 18 ins. deep on clay subsoil.
 Good grass.
 No timber.

 Thence I run,
 N. 89° 42' W., on true line, along south bdy. of sec. 33, T. 11 S., R. 24 E.

Over level prairie land.
 1.50 Wagon road, brs. N. and S.
 40.00 Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in the ground for reestablished $\frac{1}{4}$ sec. cor., with a brass cap, marked,
 $\frac{1}{4}$ S 33 in N., and
 1913 in S. 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.

78.00 Wire fence, brs. N. and S. NE. cor. of wire fence brs. N. 50 lks. dist.; thence through north edge of pasture.

80.00 Set an iron post 3 ft. long, 3 ins. in diam., 24 ins. in the ground, for reestablished cor. of secs. 32 and 33, T. 11 S., R. 24 E., with a brass cap, marked,
 T 11 S in N.,
 R 24 E in E., and
 T 12 S 1913 in S. half;
 S 32 in NW., and
 S 33 in NE. quadrant;
 dig pits 24x24x12 ins. in each sec. 6 ft. dist., and raise mound of earth 4 ft. base, 2 ft. high, north of cor.
 Land, level.
 Soil, loose, red, sandy loam, medium texture, 12 to 18 ins. deep on clay subsoil.
 Good grass.
 No timber.

 Thence I run,
 N. 89° 42' W., on true line, along south bdy. of sec. 32, T. 11 S., R. 24 E.

Through level prairie land, through north edge of pasture.
 40.00 Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in the ground for reestablished $\frac{1}{4}$ sec. cor., with a brass cap, marked,
 $\frac{1}{4}$ S 32 in N., and
 1913 in S. half;
 dig pits, 18x18x12 ins., E. and W. of post, 3 ft. dist., and raise mound of earth 3 $\frac{1}{2}$ ft. base, 1 $\frac{1}{2}$ ft. high, N. of cor.

57.00 Wire fence brs. N. and S.; cor. of wire fence brs. N. 25 lks. dist.

76.50 Wire fence, brs. N. and S. NW. cor. of wire fence, brs. N. 20 lks. dist.; thence across lane.

90. Resurvey of South boundary of Township 11 S., R.24 E.

Chains.

77.00 Wagon road, brs.N.and S.
 77.50 Wire fence, brs.N.and S. NE. cor.of wire fence, brs.N.
 20 lks.dist.; thence along north edge of cultivated
 land.
 80.00 Set an iron post 3 ft.long, 3 ins. in diam., 24 ins. in
 the ground, for reestablished cor. of secs. 31 and 32,
 T.11 S.,R.24 E., with a brass cap, marked,
 T 11 S. in N.,
 R 24 E in E., and
 T 12 S 1913 in S.half;
 S 31 in NW., and
 S 32 in NE. quadrant;
 dig pits 24x24x12 ins. in each sec. 6 ft. dist., and
 raise mound of earth 4 ft.base, 2 ft.high, north of
 cor.
 Land,level.
 Soil, loose, sandy loam, medium to fine texture,12 to 24
 ins. deep on clay subsoil.
 Good grass.
 No timber.

 Thence I run,
 N.89°42'W., on true line, along south bdy. of sec.31, Tp.
 11 S., R.24 E.

Over level land, through north edge of cultivated field.
 15.00 Wire fence brs.N.and S.; fence cor.brs. north 15 lks.
 dist.; leave edge of cultivated land, thence through
 north edge of pasture.

37.00 J. W. Church's house, brs.N.5 chs.dist.

40.00 Set an iron post 3 ft.long,1 in. in diam.,26 ins. in the
 ground for reestablished 1/4 sec.cor., with a brass cap,
 marked,
 1/4 S 31 in N., and
 1913 in S.half;
 dig pits 18x18x12 ins., E.and W. of post, 3 ft.dist.,
 and raise mound of earth 3 1/2 ft. base, 1 1/2 ft. high, N.of
 corner.

41.00 Wire fence, brs.E. and W.; thence through lane.

75.50 NW. cor.of wire fence, brs.S.15 lks.dist.

76.00 Wagon road, brs.N.and S.

76.50 NE. cor.of wire fence, brs.S.15 lks.dist.

77.95 Intersect cor.of T.11 S., Rs.23 and 24 E., reestablished
 by me, as hereinbefore described.

Land,level.

Soil, loose, sandy loam, medium to fine texture, 12 to 24
 ins.deep on clay subsoil.

Good grass.

No timber.

-----Sept.2nd., 1913.-----

 Boundaries of Township 12 South,Range 24 East.
 Latitudes, departures, and closing errors.

Line design- ated.	True bearing.	Dist.	Latitudes.		Departures.	
			N.	S.	E.	W.
South bdy.,	N.89°50'W.	79.70	0.23			79.70
	N.89°53'W.	79.80	0.16			79.80
	N.89°08'W.	79.28	1.20			79.28
	N.89°53'W.	80.22	0.16			80.22
	N.89°46'W.	79.32	0.32			79.32
	S.89°36'W.	80.50			0.56	80.50
West bdy.,	North.	480.00	480.00			
North bdy.,	S.89°42'E.	477.95		2.50	477.95	
South bdy.,	South,	480.00		480.00		
Convergency,					0.46	
Totals,-----			482.07	483.06	478.41	478.82
Error in latitude,-----				482.07		478.41
Error in departure,-----				0.99		0.41

Resurvey of West boundary of Township 11 South Range 24 E. 1913

Chains.

Resurvey commenced Sept, 20, 1913, and executed by Thomas B. Matthews, U. S. Surveyor, with Young and Sons' light mountain transit No. 8480, previously described. I examine the adjustments of the transit, and find them to be correct, and know from recent tests of the solar apparatus by comparing its indications resulting from solar observations, made during a.m. and p.m. hours, with a meridian established by observation on Polaris at elongation, that the instrument is in satisfactory adjustment. This instrument was approved by the Supervisor of Surveys, January 30th, 1913.

At 8h.0m. a.m., l.m.t., I set off $1^{\circ}12'$ N. on decl. arc; $32^{\circ}25\frac{1}{2}'$ on lat. arc, and determine a meridian with the solar at the cor. of Ts. 11 S., Rs. 23 and 24 E., reestablished by me, as hereinbefore described.

The magnetic bearing of the true meridian thus established is $N.12^{\circ}54'W.$; the angle thus determined gives the magnetic decl. of $12^{\circ}54'E.$

Thence I run,
North, bet. secs. 31 and 36.

Over level prairie land, through scattering yuecas, 3 to 6 ft. high.

1.00 Wire fence, brs. NE. and SW.; fence turns N. 10 lks. east of line; thence along west side of lane.

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

$\frac{1}{4}$ S 36 in W.,
S 31 in E., and
1913 in S. half;

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

From the above described cor., corner of wire fence, brs. east 1 ch. dist.

79.75 Wire fence brs. $N.1\frac{1}{2}^{\circ}W.$, $S.1\frac{1}{2}^{\circ}E.$; thence through lane.

80.00 Set an iron post 3 ft. long, 3 ins. in diam., 24 ins. in the ground, for reestablished cor. of secs. 25, 30, 31 and 36, with a brass cap, marked,

T 11 S in N., and
1913 in S. half;
R 23 E S 25 in NW.,
R 24 E S 30 in NE.,
S 31 in SE., and
S 36 in SW. quadrant;

dig pits 18x18x12 ins. in each sec. $5\frac{1}{2}$ ft. dist., and raise mound of earth 4 ft. base, 2 ft. high, west of cor.

From this cor., corner of wire fence brs. east 40 lks. dist. Land, level.

Soil, loose, red sandy loam, medium texture, 12 to 18 ins. deep on clay subsoil.

Good grass, scattering yuecas, 3 to 6 ft. high.

No timber.

Thence I run,
North, bet. secs. 25 and 30.

Over level prairie land, through lane.

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

$\frac{1}{4}$ S 25 in W.,
S 30 in E., and
1913 in S. half;

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

From this cor., corner NE. cor. of wire fence brs. west 20 lks. dist.; also fence, cor. brs. east 40 lks. dist.

92. Resurvey of West boundary of Township 11 South, Range 24 E.

Chains.

79.40 Leave lane, thence parallel to and west of wire fence.
 NW. cor. of wire fence, brs. east 40 lks. dist.
 79.85 SE. cor. of wire fence, brs. west 50 lks. dist.
 80.00 Set an iron post 3 ft. long, 3 ins. in diam., 24 ins. in
 the ground, for reestablished cor. of secs. 19, 24, 25
 and 30, with a brass cap, marked,
 T 11 S in N., and
 1913 in S. half;
 R 23 E S 24 in NW.,
 R 24 E S 19 in NE.,
 S 30 in SE., and
 S 25 in SW. quadrant;
 dig pits 18x18x12 ins. in each sec. 5½ ft. dist., and
 raise mound of earth 4 ft. base, 2 ft. high, west of cor.
 Land, level.
 Soil, loose, red, sandy loam, medium to coarse texture, 6
 to 18 ins. deep on clay subsoil.
 Good grass, scattering yuccas 3 to 6 ft. high.
 No timber.

Thence I run,
 North, bet. secs. 19 and 24.
 Over level prairie land, parallel to and 50 lks. east of
 wire fence.
 1.00 A. A. Goat's house, brs. west 2 chs. dist.
 39.75 Wire fence brs. E. and W. SE. cor. of wire fence, brs. east
 3 chs. dist.; thence through pasture.
 40.00 Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in
 the ground, for reestablished ¼ sec. cor., with a brass
 cap, marked,
 ¼ S 24 in W.,
 S 19 in E., and
 1913 in S. half;
 dig pits 18x18x12 ins., N. and S. of post 3 ft. dist.,
 and raise mound of earth 3½ ft. base, 1½ ft. high, W.
 of corner.
 64.00 G. Canfield's house, brs. E. 10 lks. dist.
 79.25 Wire fence, brs. E. and W.; corner of wire fence brs. east
 3 chs. dist.; thence across lane.
 79.50 Wagon road, brs. E. and W.
 80.00 Set an iron post 3 ft. long, 3 ins. in diam., 24 ins. in
 the ground for reestablished cor. of secs. 13, 18, 19 and
 24, with a brass cap, marked,
 T 11 S in N., and
 1913 in S. half;
 R 23 E S 13 in NW.,
 R 24 E S 18 in NE.,
 S 19 in SE., and
 S 24 in SW. quadrant;
 dig pits 18x18x12 ins. in each 5½ ft. dist., and raise
 mound of earth 4 ft. base, 2 ft. high, west of cor.
 Land, level.
 Soil, loose, red, sandy loam, medium texture, 12 to 18
 ins. deep on clay subsoil.
 Good grass, scattering yuccas, 3 to 6 ft. high.
 No timber.

Thence I run,
 North, bet. secs. 13 and 18.
 Over level prairie land, through scattering yuccas, 4 to 7
 ft. high.
 .15 Wire fence, brs. E. and W. SE. cor. of wire fence, brs. E.
 3 chs. dist.; thence through pasture.
 24.75 Wire fence, brs. E. and W.
 40.00 Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in
 the ground for reestablished ¼ sec. cor., with a brass
 cap, marked,

Resurvey of West boundary of Township 11 South Range 24 E. 93.

Chains.

$\frac{1}{4}$ S 13 in W.,
 S 18 in E., and
 1913 in S.half;
 dig pits 18x18x12 ins., N.and S. of post, 3 ft. dist.,
 and raise mound of earth $3\frac{1}{2}$ ft.base, $1\frac{1}{2}$ ft. high, west
 of cor.

40.75 E. A.Turner's house, brs.E. 5 chs.dist.
 41.10 Wire fence, brs.E.and W. NE. cor.of wire fence brs.east
 3 chs.dist.; leave pasture, thence through open prairie
 land.

70.00 Wagon road, brs.N.5°W., S.5°E.
 80.00 Set an iron post 3 ft.long, 3 ins. in diam., 24 ins. in
 the ground, for reestablished cor.of secs. 7,12,13, and
 18, with a brass cap, marked,
 T 11 S in N., and
 1913 in S.half;
 R 23 E S 12 in NW.,
 R 24 E S 7 in NE.,
 S 18 in SE., and
 S 13 in SW. quadrant;
 dig pits 18x18x12 ins., in each sec. $5\frac{1}{2}$ ft. dist.,and
 raise mound of earth 4 ft.base, 2 ft.high, west of cor.
 Land,level.
 Soil, loose, red, sandy loam, 12 to 18 ins.deep, medium
 texture on clay subsoil.
 Good grass, scattering yuccas, 4 to 7 ft.high.
 No timber.
 At the above described cor., I set off 1°07' N.on decl.
 arc; and at 11h. 53m. $3\frac{4}{5}$ s. a.m.,l.m.t., observe the
 sun on the meridian, and obtain a reading of 32°29'
 on lat.arc.

Thence I run,
 North, bet. secs.7 and 12.
 Over level prairie land, through scattering yuccas,4 to
 7 ft.high.

40.00 Set an iron post 3 ft.long, 1 in. in diam., 26 ins. in
 ground, for reestablished $\frac{1}{4}$ sec.cor., with a brass
 cap, marked,
 $\frac{1}{4}$ S 12 in W.,
 S 7, in E.,and
 1913 in S.half;
 dig pits 18x18x12 ins., N.and S. of post, 3ft.dist.,
 and raise mound of earth $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high,
 west of cor.

80.00 Set an iron post, 3 ft.long, 3 ins. in diam., 24 ins. in
 the ground, for reestablished cor.of secs.1,6,7 and 12,
 with a brass cap, marked,
 T 11 S in N., and
 1913 in S. half;
 R 23 E S 1 in NW.,
 R 24 E S 6 in NE.,
 S 7 in SE., and
 S 12 in SW.quadrant;
 dig pits 18x18x12 ins., in each sec. $5\frac{1}{2}$ ft. dist.,and
 raise mound of earth 4 ft.base, 2 ft.high, west of
 corner.
 Land, level.
 Soil, red, sandy loam, medium texture, 12 to 18 ins. deep
 on clay subsoil.
 Good grass, scattering yuccas, 4 to 7 ft.high.
 No timber.

Thence I run,
 North, bet. secs.1 and 6.

94. Resurvey of West boundary of Township 11 South, Range 24 E.
Chains.

- Over level prairie land, through scattering yuccas, 4 to 7 ft. high.
- 40.00 Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in the ground, for reestablished $\frac{1}{4}$ sec. cor., with a brass cap, marked,
 $\frac{1}{4}$ S 1 in W.,
 S 6 in E., and
 1913 in S. half;
 dig pits 18x18x12 ins., N. and S. of post, 3 ft. dist., and raise mound of stone $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high, west of cor.
- 80.60 Intersect Second Standard Parallel South, 23.85 chs. S. $89^{\circ}55'$ W. of standard cor. of Tp. 10 S., Rs. 23 and 24 E., reestablished by me, as described in Book "B" of Group 22.
- At the above described point of intersection, I set an iron post 3 ft. long, 3 ins. in diam., 24 ins. in the ground for closing cor. of Tp. 11 S., Rs. 23 and 24 E., with a brass cap, marked,
 C C S of center,
 T 10 S R 23 E S 36 R 24 E, S 31 in N., and
 T 11 S 1913 in S. half;
 S 6, R 24 E in SE., and
 S 1, R 23 E in SW. quadrant;
 dig pits 30x24x12 ins., crosswise on each line, E. and W. 4 ft., and S. of post 8 ft. dist., and raise a mound of earth 5 ft. base, $2\frac{1}{2}$ ft. high, south of cor.
- From this cor. point for original closing corner of Tp. 11 S., Rs. 23 and 24 E., as determined by marks of old pits, mound obliterated, brs. S. 68° W., 69 lks. dist. I destroy all trace of this old cor.
- Land, level.
 Soil, loose, red, sandy loam, medium texture, 12 to 18 ins. deep on clay subsoil.
 Good grass, scattering yuccas 4 to 7 ft. high.
 No timber.
- Sept. 20th, 1913.

Retracement of West boundary of Township 11 South, R. 23 E.

- Retracement commenced Oct. 23rd, 1913, and executed by Thomas B. Matthews, U.S. Surveyor, with Young and Sons' light mountain transit No. 8480, previously described. I examine the adjustments of the transit, and find them to be correct, and know from recent tests of the solar apparatus, by comparing its indications resulting from solar observations, made during a.m. and p.m. hours, with a meridian established by observation on Polaris, at elongation, that the instrument is in satisfactory adjustment. This instrument was approved by the Supervisor of Surveys January 30th, 1913.
- At 10h. 0m. a.m., l.m.t., I set off $11^{\circ}21'$ S. on decl. arc; $32^{\circ}25\frac{1}{2}'$ on lat. arc, and determine a meridian with the solar at the cor. of Ts. 11 and 12 S., Rs. 22 and 23 E., reestablished by me, as hereinbefore described. The magnetic bearing of the true meridian thus established at 10h. 10m. a.m., l.m.t., is N. $12^{\circ}55'$ W.; the angle thus determined gives the magnetic decl. $12^{\circ}55'$ E.
- Thence I run,
 North, on random line, bet. secs. 31 and 36.
- 40.00 Make diligent search for original $\frac{1}{4}$ sec. cor., which I fail to find.
- 80.09 Fall 17 lks. west of original cor. of secs. 25, 30, 31 and 36, which is a malpais stone 14x5x8 ins., loosely set and marked as described by Surveyor General.
 Therefore, the true bearing is N. $0^{\circ}07'$ E.

Retracement of West boundary of Township 11 South Range 23 E. 95

Chains.	
40.00	<p>Thence I run, North, on random line, bet. secs.25 and 30. Fall 4 lks.west of original $\frac{1}{4}$ sec.cor., which is a granite stone 18x10x8 ins., loosely set and marked, as de- scribed by Surveyor General. Therefore, the true bearing is N.0°03' E.</p>
40.64	<p>Thence I run, North, on random line, bet. secs.25 and 30, on north $\frac{1}{2}$ mile. Original cor.of secs. 19,24, 25 and 30, which is a malpais 10x9x8 ins. lies loose on top of ground, 25 lks. east of line. No evidence of original location could be found; therefore, I continue my random line north.</p>
80.06	<p>Fall 5 lks.west of original $\frac{1}{4}$ sec.cor., bet. secs.19 and 24. Therefore, the true bearing is N. 0°02' E.</p> <hr/>
40.02	<p>Thence I run, North, on random line, bet. secs.19 and 24 on north half mile. Fall 6 lks.west of original cor.of secs.13,18,19 and 24, which is a malpais stone 16x14x12 ins.,loosely set and marked as described by Surveyor General. Therefore, the true bearing is N.0°05' E.</p> <hr/>
40.02	<p>Thence I run, North, on random line, bet. secs.13 and 18. Fall 9 lks.west of original $\frac{1}{4}$ sec.cor., which is a small mound of stone. Therefore, the true bearing is N.0° 08' E.</p>
40.02	<p>Thence I run, North, on random line, bet. secs.13 and 18 on north half mile. Fall 2 lks.west of cor.of secs.7,12,13 and 18, which is a malpais stone 2x3x6 ins., above ground, firmly set and marked, as described by Surveyor General. Therefore, the true bearing is N.0° 02' E.</p> <hr/>
40.03	<p>Thence I run, North, on random line, bet. secs.7 and 12. Fall 30 lks.west of original $\frac{1}{4}$ sec.cor., which is a malpais stone 18x14x8 ins. loosely set and marked, as de- scribed by Surveyor General. Therefore, the true bearing is N.0°26' E.</p>
40.00	<p>Thence I run, North, on random line, bet. secs. 7 and 12, on north half mile. Make diligent search for original cor.of secs.1,6,7 and 12, which I fail to find. Therefore, I continue my random line, north, bet. secs. 1 and 6.</p>
80.00	<p>Make diligent search for original $\frac{1}{4}$ sec.cor., which I also fail to find.</p>
120.09	<p>Intersect Second Standard Parallel South, 24 lks.east of point for original closing cor. of T.11 S. Rs.22 and 23 E., as determined by proportional measurements. Therefore, the true bearing is N.0° 07' W. Oct.23rd, 1913.</p> <hr/>

96. Resurvey of West boundary of Township 11 South, Range 23 E.

Chains.

- Oct. 24th, 1913: At 8h. 30m., a.m., l.m.t., I set off $11^{\circ} 40\frac{1}{2}'$ S. on decl. arc; $32^{\circ} 25\frac{1}{2}'$ on lat. arc, and determine a meridian with the solar at the cor. of Ts. 11 and 12 S., Rs. 22 and 23 E., reestablished by me, as hereinbefore described.
- Thence I run,
N. $0^{\circ} 07'$ E., on true line, bet. secs. 31 and 36.
Over slightly rolling land, through scattering mesquite brush, 2 to 3 ft. high.
- 1.50 Wagon road, brs. E. and W.
28.00 Wagon road, brs. E. and W.
33.00 Dry wash, 50 lks. wide, 3 ft. deep, course NE.
40.045 Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in ground for reestablished $\frac{1}{4}$ sec. cor., with a brass cap, marked,
 $\frac{1}{4}$ S 36 in W.,
S 31 in E., and
1913 in S. half;
dig pits 18x18x12 ins., N. and S. of post, 3 ft. dist., and raise mound of earth $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high, west of cor.
- 41.50 Wire fence, brs. NE. and SW.
42.00 Old house brs. N. 75° E.
80.09 Intersect original corner of secs. 25, 30, 31 and 36, hereinbefore described. This old cor. being in a state of dilapidation, I destroy all trace of same, 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 cor. of secs. 25, 30, 31 and 36, with a brass cap, marked,
T 11 S in N., and
1913 in S. half;
R 22 E S 25 in NW.,
S 23 E S 30 in NE.,
S 31 in SE., and
S 36 in SW. quadrant;
raise mound of stone 3 ft. base, 3 ft. high, west of cor.
Pits impracticable.
Land, level and rolling.
Soil, gravelly, sandy loam, medium to coarse texture, 6 to 12 ins. deep on clay subsoil.
Good grass, scattering mesquite brush, 2 to 3 ft. high.
No timber.
-
- Thence I run,
N. $0^{\circ} 03'$ E., on true line, bet. secs. 25 and 30.
Over rolling, rocky land.
- 10.25 Wire fence, brs. E. and W.; thence ascend rocky south slope, 50 ft.
15.00 Summit of hill; descend north slope, 100 ft.
35.00 Foot of descent, brs. E. and W.; thence over level prairie land.
40.00 Intersect original $\frac{1}{4}$ sec. cor., hereinbefore described. This old cor. being in a state of dilapidation, I destroy all trace of same, 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 $\frac{1}{4}$ sec. cor., with a brass cap, marked,
 $\frac{1}{4}$ S 25 in W.,
S 30 in E., and
1913 in S. half;
dig pits 18x18x12 ins., N. and S. of post, 3 ft. dist., and raise mound of earth $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high, west of cor.
- Thence I run,
N. $0^{\circ} 02'$ E. on true line, bet. secs. 25 and 30, on north half mile.
12.00 Dry wash, 25 lks. wide, 4 ft. deep, course east.

Resurvey of West boundary of Township 11 South, Range 23 East. 97/

Chains.

40.03 (Proportional distance). Set an iron post 3 ft. long, 3 ins. in diam., 24 ins. in the ground, for reestablished cor. of secs. 19, 24, 25 and 30, with a brass cap, marked, T 11 S in N., and 19 1/3 in S. half; R 22 E, S 24 in NW., R 23 E S 19 in NE., S 30 in SE., and S 25 in SW quadrant; dig pits 18x18x12 ins., in each sec. 5 1/2 ft. dist., and raise mound of earth 4 ft. base, 2 ft. high, west of cor. Land, level and rolling. Soil, thin and rocky on south half; north half, loose, gravelly, sandy loam, medium texture, 12 to 18 ins. deep on clay subsoil. Good grass. No timber.

Thence I run, N. 0° 02' E., on true line, bet. secs. 19 and 24. Over level prairie land, through scattering mesquite brush 3 to 4 ft. high.

2.00 Wagon road, brs. E. and W.; thence along N. and S. wagon road.
19.00 Dry wash, 10 lks. wide, 2 ft. deep, course east.

40.03 Intersect original 1/4 sec. cor., hereinbefore described. This old cor. being in a state of dilapidation, I destroy all trace of same, and reestablish it in the same place, as follows:

Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in ground, for 1/4 sec. cor., with a brass cap, marked, S 24 in W., S 19 in E., and 19 1/3 in S. half; raise mound of stone 3 ft. base, 2 ft. high, west of cor. Pits impracticable.

Thence I run, N. 0° 05' E., on true line, bet. secs. 19 and 24, on north 1/2 mile.

40.02 Intersect original cor. of secs. 13, 18, 19 and 24, hereinbefore described. This old cor. being in a state of dilapidation, I destroy all trace of same, 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 cor. of secs. 13, 18, 19 and 24, with a brass cap, marked, T 11 S in N., and 19 1/3 in S. half; R 22 E S 13 in NW., R 23 E S 18 in NE., S 19 in SE., and S 24 in SW quadrant;

dig pits 18x18x12 ins., in each sec. 5 1/2 ft. dist., and raise mound of earth 4 ft. base, 2 ft. high, west of cor. Land, level.

Soil, loose, red sandy loam, medium texture, 12 to 18 ins. deep on clay subsoil.

Good grass, scattering mesquite brush, 3 to 4 ft. high. No timber.

Note: Wagon road follows along this line.

Thence I run, N. 0° 08' E., on true line, bet. secs. 13 and 18. Over level prairie land, through scattering mesquite brush 2 to 3 ft. high, along wagon road.

40.02 Intersect point for original 1/4 sec. cor. hereinbefore described.

98. Resurvey of West bdy. of Township 11 South, Range 23 East.
Chains.

- This old cor. being in a state of dilapidation, I destroy all trace of same, 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 $\frac{1}{4}$ sec. cor., with a brass cap, marked,
 $\frac{1}{4}$ S 13 in W.,
 S 18 in E., and
 19 $\frac{1}{3}$ in S. half;
 dig pits 18x18x12 ins., north and south of post 3 ft. dist., and raise mound of earth 5 $\frac{1}{2}$ ft. base, 2 $\frac{1}{2}$ ft. high west of cor.
- Thence I run,
 N. 0° 02' E., on true line, bet. secs. 13 and 18, on north half mile, along wagon road.
- .05 SE. cor. of wire fence brs. west 50 lks. dist.; thence parallel to and east of wire fence.
- 8.00 Wagon road brs. NE.
 11.00 House brs. west 7 chs. dist.
 39.50 NE. cor. of wire fence, brs. west 50 lks. dist.
 39.97 Wagon road, brs. E. and W.
 40.02 Intersect original cor. of secs. 7, 12, 13 and 18, previously described. This old cor. being in a state of dilapidation, I destroy all trace of same, 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 cor. of secs. 7, 12, 13 and 18, with a brass cap, marked,
 T 11 S in N., and
 19 $\frac{1}{3}$ in S. half;
 R 22 E S 12 in NW.
 R 23 E S 7 in NE.,
 S 18 in SE., and
 S 13 in SW. quadrant;
 dig pits 18x18x12 ins., in each sec. 5 $\frac{1}{2}$ ft. dist., and raise a mound of earth 4 ft. base, 2 ft. high, west of cor.
 Land, level.
 Soil, loose, red, sandy loam, medium texture, 12 to 18 ins. deep on clay subsoil.
 Good grass, scattering mesquite brush, 2 to 3 ft. high.
 No timber.
-
- Thence I run,
 N. 0° 26' E., on true line, bet. secs. 7 and 12.
- 40.03 Over level prairie land, along wagon road.
 Intersect original $\frac{1}{4}$ sec. cor., previously described. This old cor. being in a state of dilapidation, I destroy all trace of same, 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 $\frac{1}{4}$ sec. cor., with a brass cap, marked,
 $\frac{1}{4}$ S 12 in W.,
 S 7 in E., and
 19 $\frac{1}{3}$ in S. half;
 dig pits 18x18x12 ins., N. and S. of post 3 ft. dist., and raise a mound of stone covered with earth 4 ft. base, 2 ft. high west of cor.
- Thence I run,
 N. 0° 07' W. on true line, bet. secs. 7 and 12, on north half mile, along wagon road.
- 20.03 SW. cor. of wire fence, brs. E. 50 lks. dist.; thence parallel to and west of wire fence.
- 40.01 (Proportional distance). Set an iron post 3 ft. long, 3 ins. in diam., 24 ins. in the ground, for reestablished cor. of secs. 1, 6, 7 and 12, with a brass cap, marked,
 T 11 S in N., and
 19 $\frac{1}{3}$ in S. half;
 R 22 E S 1 in NW.,
 R 23 E S 6 in NE.,
 S 7 in SE., and

Resurvey of West boundary of Township 11 South, Range 23 E. 99.

Chains.

S 12 in SW. quadrant;
 dig pits 18x18x12 ins. in each sec. $5\frac{1}{2}$ ft. dist., and
 raise mound of earth 4 ft. base, 2 ft. high, west of cor.
 Land, level.
 Soil, loose, gravelly, sandy loam, medium texture, 12 to
 18 ins. deep on clay subsoil.
 Good grass.
 No timber.
Note: Wagon road follows along this mile.

Thence I run,
 N. $0^{\circ}07'$ W., on true line, bet. secs. 1 and 6.
 Over level prairie land, parallel to and 50 lks. west of
 wire fence.
 2.00 J. A. Bangle's house, brs. E. 4 chs. dist.
 20.00 NW. cor. of wire fence, brs. E. 50 lks. dist.; wagon road
 along this line turns NE. at this point.
 40.01 (Proportional distance) Set an iron post 3 ft. long, 1
 in. in diam., 26 ins. in the ground for reestablished
 $\frac{1}{4}$ sec. cor., with a brass cap, marked,
 $\frac{1}{4}$ S 1 in W.,
 S 6 in E., and
 1913 in S. half;
 dig pits 18x18x12 ins., N. and S. of post, 3 ft. dist.,
 and raise mound of earth $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high, west
 of cor.
 55.00 Wagon road brs. NE. and SW.
 62.50 Dry wash, 20 lks. wide, 3 ft. deep, course SE.
 78.50 Wire fence brs. NW. and SE.
 80.08 Intersect Second Standard Parallel South, 22.44 chs. S. 89°
 $55'$ W. of standard cor. of T. 10 S., Rs. 22 and 23 E., re-
 established by me, as described in Book "B" of Group
 22.
 At point of intersection, I set an iron post 3 ft. long,
 3 ins. in diam., 24 ins. in the ground, for reestablish-
 ed closing cor. of Ts. 11 S., Rs. 22 and 23 E., with a
 brass cap, marked,
 C C S of center,
 T 10 S R 22 E S 36 R 23 E S 31 in N., and
 T 11 S 1913 in S. half;
 S 6 R 23 E in SE., and
 S 1, R 22 E in SW. quadrant;
 dig pits 24x30x12 ins., crosswise on each line, E. and
 W. 4 ft., and S. of post 8 ft. dist., and raise mound of
 earth 5 ft. base, $2\frac{1}{2}$ ft. high, S. of cor.
 Land, level.
 Soil, red sandy loam, medium texture, 8 to 14 ins. deep
 on clay subsoil.
 Short grass.
 No timber.

Note: At the cor. of secs. 7, 12, 13 and 18, hereinbefore
 described, I set off $11^{\circ}46'$ S. on the decl. arc, and at
 11h. 44m. 19s. a. m., l. m. t., observe the sun on the
 meridian, and obtain a reading of $32^{\circ}29'$ on lat. arc.
 Oct. 24th, 1913.

100. Boundaries of Township 11 South, Range 23 East.

Latitudes, departures and closing errors.						
Line designated.	True bearing.	Dist.	Latitudes.		Departures.	
			N.	S.	E.	W.
South bdy.,	S. 89° 56' W.	479.32		0.56		479.32
West bdy.,	N. 0° 07' E.	80.09	80.09		0.16	
	N. 0° 03' E.	40.00	40.00		0.04	
	N. 0° 02' E.	80.06	80.06		0.05	
	N. 0° 05' E.	40.02	40.02		0.06	
	N. 0° 08' E.	40.02	40.02		0.09	
	N. 0° 02' E.	40.02	40.02		0.03	
	N. 0° 26' E.	40.03	40.03		0.30	
	N. 0° 07' W.	120.09	120.09			0.24
North bdy.,	N. 89° 55' E.	479.49	0.69		479.49	
East boundary,	South,	480.60		480.60		
Convergency,					0.46	
Totals,			481.02	481.16	480.68	479.56
				481.02	479.56	
Error in latitude, -----				0.14		
Error in departure, -----				1.12		

Resurvey of East boundary of Township 11 South, Range 24 E.

Nov. 18th, 1913: At 2h.0m. p.m., l.m.t., I set off 19° 14' S. on decl. arc; 32° 25 1/2' on lat. arc, and determine a meridian with the solar at the cor. of Ts. 11 and 12 S., Rs. 24 and 25 E. reestablished by me, as hereinbefore described.

Thence I run,
 North, bet. secs. 31 and 36.
 Over level prairie land, through scattering yuccas, 4 to 7 ft. high.

40.00 Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in ground, for reestablished 1/4 sec. cor., with a brass cap, marked,
 1/4 S 36 in W.,
 S 31 in E., and
 1913 in S. half;
 dig pits 18x18x12 ins. N. and S. of post, 3 ft. dist., and raise mound of earth 3 1/2 ft. base, 1 1/2 ft. high, west of conner.

From this cor., original 1/4 sec. cor., which is a granite stone 6x8x10 ins. above ground, firmly set and marked as described by Surveyor General, brs. N. 7 1/4° W., 227 lks. dist., I destroy all trace of this old cor.

53.00 Dry wash, 10 lks. wide, 2 ft. deep, course west.
 Enter scattering mesquite brush, 3 to 4 ft. high.

58.00 Dry wash, 10 lks. wide, 3 ft. deep, course west; leave mesquite brush, brs. E. and W.

80.00 Set an iron post 3 ft. long, 3 ins. in diam., 24 ins. in ground for reestablished cor. of secs. 25, 30, 31 and 36, with a brass cap, marked,
 T 11 S in N., and
 1913 in S. half;
 R 24 E S 25 in NW.,
 R 25 E S 30 in NE.,
 S 31 in SE., and
 S 36 in SW. quadrant;
 dig pits 18x18x12 ins., in each sec. 5 1/2 ft. dist., and raise mound of earth 4 ft. base, 2 ft. high, west of cor.
 Land, level and rolling.

Resurvey of East boundary of Township 11 South, Range 24 East, 101.

Chains.

dig pits 18x18x12 ins., in each sec. $5\frac{1}{2}$ ft. dist., and raise mound of earth 4 ft. base, 2 ft. high west of cor. Land, level and rolling.
Soil, loose, gravelly, sandy loam, 6 to 12 ins. deep on clay subsoil.
Good grass, scattering yuccas, 4 to 7 ft. high.
No timber.

Thence I run,
North, bet. secs. 25 and 30.
Over slightly rolling, prairie land, through scattering mesquite brush, 3 to 4 ft. high.
39.50 Dry wash, 10 lks. wide, 1 ft. deep, course west.
40.00 Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in the ground for reestablished $\frac{1}{4}$ sec. cor., with a brass cap, marked,
 $\frac{1}{4}$ S 25 in W.,
S 30 in E., and
1913 in S. half;
raise mound of stone 2 ft. base, 2 ft. high, west of cor.
Pits impracticable.
45.50 Dry wash, 25 lks. wide, 3 ft. deep, course SW.
46.00 Ascend rocky SE. slope, 100 ft.
61.00 Top of spur, slopes east; thence descend NE. slope, 75 ft.
70.00 Foot of descent; thence over rolling, rocky land.
80.00 Set an iron post 3 ft. long, 3 ins. in diam., 24 ins. in the ground, for reestablished cor. of secs. 19, 24, 25 and 30, with a brass cap, marked,
T 11 S in N., and
1913 in S. half;
R 24 E S 24 in NW.,
R 25 E S 19 in NE.,
S 30 in SE., and
S 25 in SW. quadrant;
raise mound of stone 2 ft. base, 2 ft. high, west of cor. Pits impracticable.
From this cor., the original corner of secs. 19, 24, 25, and 30, which is a granite stone 12x8x12 ins., firmly set and marked, as described by the Surveyor General, brs. N. $2\frac{1}{2}^{\circ}$ W., 253 lks. dist. I destroy all trace of this old cor.
Land, rolling.
Soil, loose, gravelly, sandy loam, medium to coarse texture, 8 to 14 ins. deep on south half; north half thin, and rocky.
Good grass, scattering mesquite brush and yuccas, 3 to 4 ft. high.

Nov, 18th, 1913.

Nov. 19th, 1913: At 9h. 0m. a.m., l.m.t., I set off $19^{\circ}24\frac{1}{2}'$ S. on decl. arc; $32^{\circ}26\frac{1}{2}'$ on lat. arc, and determine a meridian with the solar at the cor. of secs. 19, 24, 25 and 30, described above.
Thence I run,
North, bet. secs. 19 and 24.
Over rolling, rocky land, through scattering mesquite brush, 2 to 3 ft. high.
40.00 Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in the ground for reestablished $\frac{1}{4}$ sec. cor., with a brass cap, marked,
 $\frac{1}{4}$ S 24 in W.,
S 19 in E., and
1913 in S. half;
raise mound of stone 3 ft. base, 2 ft. high, west of cor.
Pits impracticable.

102 Resurvey of East boundary of Township 11 S., R. 24 E.

Chains.

55.00 Begin ascent of low rocky ridge, 50 ft. high.
 76.00 Summit of ridge, brs. NE. and SW.; descend rocky NE. slope, 50 ft.
 80.00 Set an iron post 3 ft. long, 3 ins. in diam., 24 ins. in ground, for reestablished cor. of secs. 13, 18, 19 and 24, with a brass cap, marked,
 T 11 S in N., and
 1913 in S. half;
 R 24 E S 13 in NW.,
 R 25 E S 18 in NE.,
 S 19 in SE., and
 S 24 in SW. quadrant;
 raise mound of stone 3 ft. base, 3 ft. high, west of cor.
 Pits impracticable.
 Land, rolling.
 Soil, thin and rocky.
 Good grass, scattering mesquite brush, 2 to 3 ft. high.
 No timber.
Note: From this cor., original cor. of secs. 13, 18, 19 and 24, which is a granite stone 8x12x15 ins., loosely set and marked, as described by the Surveyor General, brs. N. 260 lks. dist. I destroy all trace of this old cor.

Thence I run,
 North, bet. secs. 13 and 18.
 Over rolling, rocky land, through scattering mesquite brush and yuccas, 3 to 7 ft. high.
 12.00 Dry wash, 1 ch. wide, 10 ft. deep, course SW.
 25.50 Wagon road, brs. NE. and SW.
 40.00 Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in the ground, for reestablished $\frac{1}{4}$ sec. cor., with a brass cap, marked,
 $\frac{1}{4}$ S 13 in W.,
 S 18 in E., and
 1913 in S. half;
 dig pits 18x18x12 ins., N. and S. of post, 3 ft. dist., and raise mound of earth $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high, west of cor.
 65.00 Dry wash, 1 ch. wide, 4 ft. deep, course west.
 72.00 Dry wash, 50 lks. wide, 4 ft. deep, course west.
 80.00 Set an iron post 3 ft. long, 3 ins. in diam., 24 ins. in the ground, for reestablished cor. of secs. 7, 12, 13 and 18, with a brass cap, marked,
 T 11 S in N., and
 1913 in S. half;
 R 24 E S 12 in NW.,
 R 25 E S 7 in NE.,
 S 18 in SE., and
 S 13 in SW. quadrant;
 raise a mound of stone 3 ft. base, 2 ft. high, west of cor.
 From the above described cor., old cor. of secs. 7, 12, 13 and 18, which is decayed remains of mesquite post, marks nearly obliterated, loosely set, brs. N. 2° W., 271 lks. dist.
 I destroy all trace of this old cor.
 Land, rolling.
 Soil, reddish gravel, sandy loam, coarse texture, 6 to 12 ins. deep on clay subsoil.
 Good grass, scattered mesquite brush and yuccas, 3 to 7 ft. high.
 No timber.

Resurvey of East boundary of Township 11 South, Range 24 E. 103.

Chains.

Thence I run,
North, bet. secs. 7 and 12.
Over rolling land, through scattering mesquite brush and
yuccas, 3 to 7 ft. high.
17.00 Dry wash, 50 lks. wide, 7 ft. deep, course west.
40.00 Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in
the ground, for reestablished $\frac{1}{4}$ sec. cor., with a brass
cap, marked,
 $\frac{1}{4}$ S 12 in W.,
S 7 in E., and
1913 in S. half;
dig pits 18x18x12 ins., N. and S. of post, 3 ft. dist.,
and raise mound of earth $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high, west of
corner.

From this cor., original $\frac{1}{4}$ sec. cor., which is a granite
stone 10x5x8 ins. loosely set and marked, as described
by Surveyor General, brs. N. $4\frac{1}{4}^{\circ}$ W., 270 lks. dist. I destroy
all trace of this old cor.

47.00 Dry wash, 20 lks. wide, 2 ft. deep, course west.

75.00 Dry wash, 10 lks. wide, 2 ft. deep, course west.

80.00 Set an iron post 3 ft. long, 3 ins. in diam., 24 ins. in
ground, for reestablished cor. of secs. 1, 6, 7 and 12, with
a brass cap, marked,

T 11 S in N., and

1913 in S. half;

R 24 E S 1 in NW.,

R 25 E S 6 in NE.,

S 7 in SE., and

S 12 in SW. quadrant;

dig pits 18x18x12 ins., in each sec. $5\frac{1}{2}$ ft. dist., and
raise mound of earth 4 ft. base, 2 ft. high, west of cor.

From this cor., original cor. of secs. 1, 6, 7 and 12, which
is a granite stone 5x6x7 ins. above ground, firmly set
and marked as described by Surveyor General, brs. N.
 $5\frac{1}{4}^{\circ}$ W., 279 lks. dist. I destroy all trace of this
old cor.

Land, rolling,

Soil, rocky.

Good grass, scattering mesquite brush and yuccas, 3 to 7
ft. high.

No timber.

Note: At the above described cor., I set off $19^{\circ}27'$ S. on
decl. arc, and at 11h. 45m. 52s. a.m., l.m.t., observe
the sun on the meridian and obtain a reading of 32°
 $29'$ on lat. arc.

Thence I run,
North, bet. secs. 1 and 6.

Over rolling, rocky land, through scattering mesquite
brush and yuccas, 4 to 7 ft. high.

13.50 Wagon road brs. NW. and SE.

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

$\frac{1}{4}$ S 1 in W.,

S 6 in E., and

1913 in S. half;

dig pits 18x18x12 ins., N. and S. of post, 3 ft. dist., and
raise mound of earth $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high, west of
corner.

From this corner, original $\frac{1}{4}$ sec. cor., which is a granite
stone 8x8x8 ins., above ground, firmly set and marked
as described by the Surveyor General, brs. N. $7\frac{1}{4}^{\circ}$ W., 280
lks. dist. I destroy all trace of this old cor.

45.00 Foot of rocky hill, brs. E. and W.; ascend steep rocky S.
slope, 1200 ft.

78.00 Summit of ascent; thence along narrow ridge.

104. Resurvey of East boundary of Township 11 S. R. 24 E.

Chains.

82,06 Intersect Second Standard Parallel South, 26.47 chs. west of standard cor. of Ts. 10 S., Rs. 24 and 25 E., reestablished by me, as described in Book "B" of this group. At point of intersection, I set an iron post 3 ft. long, 3 ins. in diam., 24 ins. in the ground for reestablished closing cor. of T. 11 S., Rs. 24 and 25 E., with a brass cap, marked,

C C S of center,
T 10 S R 24 E S 36 R 25 E S 31 in N. and
T 11 S 1913 in S half;
S 6 R 25 E in SE.,
S 1 R 24 E in SW. quadrant;

raise mound of stone 3 ft. base, 2 ft. high, south of cor. Pits impracticable.

From the above described cor., old closing cor. of T. 11 S. Rs. 24 and 25 E. which is a juniper post greatly decayed deposited in mound of stone, brs. N. 11 1/2° E., 40 lks. dist. I destroy all trace of this old cor.

Note: The closing cor. described above, was not set until after the Second Standard Parallel South, had been resurveyed on Dec. 6th, 1913.

Land, rolling and mountainous.
Soil, thin and rocky.
Good grass, scattering mesquite brush and yuccas, 4 to 7 ft. high.
No timber.

Nov. 19th, 1913.

Boundaries of Township 11 South, Range 24 East.
Latitudes, departures, and closing errors.

Line designated.	True bearing.	Dist.	Latitudes.		Departures.	
			N.	S.	E.	WC.
South bdy.	N. 89° 42' W.	477.95	2.51			477.95
West bdy.	North.	480.60	480.60			
North bdy. (2nd. Std. Par. South)	N. 89° 55' E. East,	304.375 173.53	0.44		304.375 173.53	
East bdy.	South.	482.06		482.06		
Convergency,					0.46	
	Totals, -----		483.55	482.06	478.365	477.95
			482.06		477.95	
	Error in latitude,		1.49			
	Error in departure, -----				0.415	

Resurvey of portion of North bdy. of Township 10 S., R. 22 E.

Chains.

Resurvey commenced Jan. 24th, 1914, and executed by Thomas B. Matthews, U. S. Surveyor, with Young and Sons' light mountain transit No. 8480. I examine the adjustments of the transit, and find them to be correct, and know from recent tests of the solar apparatus, by comparing its indications resulting from solar observations made during a.m. and p.m. hours, with a meridian established by observation on Polaris, at elongation, that the instrument is in satisfactory adjustment.

At 8h. 0m., a.m., l.m.t., I set off $19^{\circ}15\frac{1}{2}'$ S. on decl. arc; $32^{\circ}35\frac{1}{2}'$ on lat. arc, and determine a meridian with the solar at the $\frac{1}{4}$ sec. cor., bet. secs. 4 and 33, Ts. 9 and 10 S., R. 22 E., reestablished by me, as described in Book "C," of Group 22.

Thence I run,

West, on random line, bet. secs. 4 and 33.

40.00 Make diligent search for original cor. of secs. 4, 5, 32 and 33, which I fail to find; therefore, I continue my random line west, making diligent search for original $\frac{1}{4}$ sec. and sec. cors. at intervals of 40 chs., but fail to find any original cor. on this line, until at

159.36 Fall 5 lks. south of the original $\frac{1}{4}$ sec. cor., bet. secs. 6 and 31, which is a granite stone 12x12x10 ins., loosely set and marked as described by the Surveyor General. This cor. being in a state of dilapidation, I destroy all trace of same, 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 $\frac{1}{4}$ sec. cor., with a brass cap, marked,

$\frac{1}{4}$ S 31 in N., and

S 6, 1913 in S. half;

raise mound of stone 2 ft. base, 2 ft. high, north of cor. Pits impracticable.

Thence I run,

S. $89^{\circ}59'$ E., on true line, bet. secs. 6 and 31, on east half mile.

Over rolling land, through short grass.

37.00 Dry wash, 10 lks. wide, 1 ft. deep, course NE.

39.84 (Proportional distance). Set an iron post 3 ft. long, 3 ins. in diam., 24 ins. in the ground for reestablished cor. of secs. 5, 6, 31 and 32, with a brass cap, marked,

T 9 S in N.,

T 10 S 1913 in S., and

R 22 E in E. half;

S 31 in NW.,

S 32 in NE.,

S 5 in SE., and

S 6 in SW. quadrant;

dig pits 18x18x12 ins. in each sec. $5\frac{1}{2}$ ft. dist., and raise mound of earth 4 ft. base, 2 ft. high, west of cor.

Land, rolling.

Soil, red, gravelly, coarse texture, 6 to 12 ins. deep on clay subsoil.

Short grass.

No timber.

Thence I run,

S. $89^{\circ}59'$ E., on true line, bet. secs 5 and 32.

Over rolling land, through short grass.

39.84 (Proportional distance). Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in the ground for reestablished $\frac{1}{4}$ sec. cor., with a brass cap, marked,

$\frac{1}{4}$ S 32 in N., and

S 5, 1913 in S. half;

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

N.bdy.of

106. Resurvey of portion of Township 10 S., R.22 E.

Chains.

79.68 Proportional distance) Set an iron post 3 ft. long, 3 ins. in diam., 24 ins. in the ground for reestablished cor. of secs. 4, 5, 32 and 33, with a brass cap, marked,
 T 9 S in N.,
 R 22 E in E., and
 T 10 S 1913 in S. half;
 S 32 in NW.,
 S 33 in NE.,
 S 4 in SE., and
 S 5 in SW. quadrant;
 dig pits 18x18x12 ins., in each sec. 5½ ft. dist., and raise mound of earth 4 ft. base, 2 ft. high, west of cor. Land, rolling and broken.
 Soil, red, gravelly, coarse texture, 6 to 12 ins. deep on clay subsoil.
 Short grass.
 No timber.

 Thence I run,
 S. 89° 59' E., on true line, bet. secs. 4 and 33.
 Over rolling land, through short grass.
 3.00 Dry wash, 15 lks. wide, 3 ft. deep, course north.
 6.00 Dry bed of Aravipi Creek, 25 lks. wide, 4 ft. deep, course NW.
 11.00 Wagon road, from Willcox to Klondike, brs. NW. and SE.
 39.84 Intersect ¼ sec. cor., bet. secs. 4 and 33, reestablished by me, as described in Book "C" of page 22.
 Land, rolling.
 Soil, loose, red, sandy loam, scattering loose rock on surface, 12 to 18 ins. deep on clay subsoil.
 Short grass, scattering mesquite brush 2 to 3 ft. high.
 No timber.

 From the reestablished ¼ sec. cor., bet. secs. 6 and 31, hereinbefore described, I run,
 West, on random line, bet. secs. 6 and 31, on west half mile.
 Make diligent search for original cor. of Ts. 9 and 10 S., Rs. 21 and 22 E., which I fail to find.
 80.47 Therefore, I continue my random line west in Range 21. E. Fall 5 lks. north of point for original ¼ sec. cor., bet. secs. 1 and 36, Ts. 9 and 10 S., R. 21 E., as determined from SE. bearing tree, which has been cut, leaving the old markings visible on stump. I reestablish this old cor. in original position as follows:
 Set a basalt stone 13x12x10 ins., 9 ins. in ground for ¼ sec. cor., marked ¼ on N. side. Pits impracticable.
 Raise mound of stone 3 ft. base, 2 ft. high, north of cor.
 Thence I run,
 40.53 N. 89° 58' E. on temp. E. and W. line, bet. secs. 1 and 36. (Proportional distance). Set temp. cor. of Ts. 9 and 10 S., Rs. 21 and 22 E.
 80.47 Intersect reestablished ¼ sec. cor., bet. secs. 6 and 31, hereinbefore described.

 Retracement on W bdy. Ts. 9 and 10 S., Rg. 22 East.

 At the original ¼ sec. cor., bet. secs. 1 and 6, T. 10 S., Rs. 21 and 22 E., which is a granite stone 12x8x8 ins., firmly set and marked, as described by the Surveyor General, I set off 19° 14½' S. on decl. arc, and at 11h. 47m. 52s. a.m., l.m.t., observe the sun on the meridian, and obtain a reading of 32° 35½' on lat. arc.

Retracement on West bdy. of Townships 9 and 10 S., R. 22 East. 107.

Chains.

- Thence I run,
 North, on random line, bet. secs. 1 and 6.
 40.00 Make diligent search for original cor. of Ts. 9 and 10 S.,
 Rs. 21 and 22 E., which I fail to find.
 Therefore, I continue my random line, north bet. Rss. 21 and
 22 E., T. 9 S., making diligent search for original $\frac{1}{4}$ sec. and
 sec. cors. at intervals of 40 chs., but fail to find
 any evidence of same, until at
 199.55 Fall 16 lks. E. of original cor. of secs. 19, 24, 25 and 30,
 which is a granite stone 8x12x6 ins. above ground,
 firmly set, marked and witnessed as described by the
 Surveyor General.
 Thence I run,
 S. $0^{\circ}03'$ E., on temp. N. and S. line, bet. Rs. 21 and 22 E.
 159.64 Set temp. cor. to Ts 9 and 10 S., Rs. 21 and 22 E., from
 which I determine point for cor. of Ts. 9 and 10 S., Rs.
 21 and 22 E., east 21 lks., and 28 lks. south of temp.
 cor. for the above numbered townships and ranges,
 set on temp. east and west line.
 From the last above mentioned temp. cor. set on temp. N.
 and S. line, I continue,
 S. $0^{\circ}03'$ E., on temp. N. and S. line, bet. Rs. 21 and 22 E.
 199.55 Intersect original $\frac{1}{4}$ sec. cor., bet. secs. 1 and 6, herein-
 before described.

 Resurvey west half mile, bet. secs. 6 and 31, on N. bdy. T10S.,
 Range 22 East.

From the reestablished $\frac{1}{4}$ sec. cor., bet. secs. 6 and 31, Ts.
 9 and 10 S., R. 22 E., hereinbefore described, I run,
 S. $89^{\circ}34'$ W., on true line, bet. secs. 6 and 31, on west $\frac{1}{2}$
 mile.

- Over rolling, broken land,
 3.00 Dry gulch, 5 chs. wide, 70 ft. deep, course NE.
 35.00 Dry gulch, 3 chs. wide, 50 ft. deep, course north.
 39.00 Descend NW. slope, 50 ft. to cor.
 39.94 Intersect point for cor. of Ts. 9 and 10 S., Rs. 21 and 22
 E. hereinbefore described. I reestablish this cor.
 as follows:
 Set an iron post 3 ft. long, 3 ins. in diam., 24 ins. in
 the ground for cor. of Ts. 9 and 10 S., Rs. 21 and 22 E.,
 with a brass cap, marked,
 T 9 S in N.,
 R 22 E in E.,
 T 10 S 1913 in S., and
 R 21 E in W. half;
 S 36 in NW.,
 S 31 in NE.,
 S 6 in SE. and
 S 1 in SW. quadrant;
 dig pits 24x24x12 ins. on each line, E., W. and N. 4 ft.,
 and south of post 8 ft. dist., and raise mound of earth
 5 ft. base, 2 $\frac{1}{2}$ ft. high, south of cor.
 Land, rolling and broken.
 Soil, thin, red gravelly, scattering loose rock on surface,
 clay subsoil.
 Short grass.
 No timber.

Jan. 24th, 1914.

108/ Resurvey of West bdy. of Township 10 South, Range 22 East.

Chains.

- Jan. 25th, 1914: At 8h.30m. a.m., l.m.t., I set off $19^{\circ} 01\frac{1}{2}'$ S. on decl. arc; $32^{\circ} 30\frac{1}{2}'$ on lat. arc, and determine a meridian with the solar at the Standard cor. of Ts. 10 S., Rs. 21 and 22 E., reestablished by me, as described in Book "B" of this group.
- Thence I run,
North, on random line, bet. Rss. 21 and 22 E., through Tp. 10 S., and at
479.71 Fall 35 lks. west of the cor. of Ts. 9 and 10 S., Rs. 21 and 22 E., reestablished by me, as hereinbefore described.
- Thence I run,
S. $9^{\circ} 02'$ W., bet. secs. 1 and 6, on true line.
Ascending steep NW. slope, 50 ft.
1.50 Top of ascent; thence over rolling broken land, through short grass.
7.00 Dry gulch, 8 chs. wide, 50 ft. deep, course NE.
39.71 Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in the ground, for reestablished $\frac{1}{4}$ sec. cor., with a brass cap, marked,
 $\frac{1}{4}$ S 1 in W.,
S 6 in E., and
1913 in S. half;
raise mound of stone 2 ft. base, 2 ft. high, west of cor.
Pits impracticable.
- From this cor., the old original $\frac{1}{4}$ sec. cor., bet. secs. 1 and 6 hereinbefore described, brs. S. $37\frac{1}{4}'$ W., 25 lks. dist. I destroy all trace of this old cor.
- 47.00 Dry gulch, 3 chs. wide, 75 ft. deep, course NE.
58.00 Dry gulch, 5 chs. wide, 100 ft. deep, course NE.
64.00 Dry gulch, 4 chs. wide, 100 ft. deep, course NE.
74.00 Dry gulch, 5 chs. wide, 70 ft. deep, course NE.
79.71 Set an iron post 3 ft. long, 3 ins. in diam., 24 ins. in ground, for reestablished cor. of secs. 1, 6, 7 and 12, with a brass cap, marked,
T 10 S in N.,
R 22 E in E.,
1913 in S., and
R 21 E in W. half;
S 1 in NW.,
S 6 in NE.,
S 7 in SE. and
S 12 in SW. quadrant; raise mound of stone
3 ft. base, 2 ft. high, west of cor. Pits impracticable.
- No trace of original cor. could be found.
Land, rolling and broken.
Soil, thin, red gravelly, coarse texture, scattering loose rock on surface; clay subsoil.
Short grass.
No timber.
-
- Thence I run,
S. $0^{\circ} 02'$ W., on true line, bet. secs. 7 and 12.
Over level prairie land, through short grass.
40.00 Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in the ground, for reestablished $\frac{1}{4}$ sec. cor., with a brass cap, marked,
 $\frac{1}{4}$ S 12 in W.,
S 7 in E., and
1913 in S. half;
dig pits 18x18x12 ins., N. and S. of post, 3 ft. dist., and raise mound of earth, $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high, W. of cor.
- 70.00 Dim wagon road brs. E. and W.
80.00 Set an iron post, 3 ft. long, 3 ins. in diam., 24 ins. in ground for reestablished cor. of secs. 7, 12, 13 and 18, with a brass cap, marked
T 10 S in N.,
R 22 E in E.;

Resurvey of West boundary of Township 10 South, Range 22 East, 109.

Chains.

1913 in S., and
R 21 E in W-half;
S 12 in NW.,
S 7 in NE.,
S 18 in SE., and
S 12 in SW.quadrant;

raise mound of stone 3 ft.base, 2 ft.high, west of cor.
Pits impracticable.
Land, level.
Soil, thin, red gravelly, on clay subsoil, scattering loose
rock on surface.
Short grass.
No timber.

Thence I run,
S.0°02'W., on true line, bet. secs.13 and 18.
Over level prairie land.

13.00
40.00

Dry wash, 7 ft.deep, 30 lks.wide, course NE.
Set an iron post 3 ft.long, 1 in. in diam., 26 ins. in
the ground for reestablished 1/4 sec.cor., with a brass
cap, marked,

1/4 S 13 in W.,
S 18 in E., and
1913 in S.half;

dig pits 18x18x12 ins., N.and S.of post, 3 ft. dist., and
raise mound of earth 3 1/2 ft. base, 1 1/2 ft.high, west of
cor.

61.00
80.00

Dim wagon road, brs. N.50° E., S 50° W.
Set an iron post 3 ft.long, 3 ins. in diam., 24 ins.in
the ground for reestab. cor.of secs. 13,18,19 and 24,
with a brass cap, marked,

T 10 S in N.,
R 22 E in E.,
1913 in S., and
R 21 E in W-half;
S 13 in NW.,
S 18 in NE.,
S 19 in SE., and
S 24 in SW.quadrant;

raise mound of stone 2 ft.base, 2 ft. high, west of
corner. Pits impracticable.

Land, level.
Soil, red adobe, 12 ins.deep on clay subsoil.
Scattering short grass.
No timber.

Note: The sun is obscured by clouds at noon, rendering an
observation for latitude impossible.

Thence I run,
S.0°02'W., on true line, bet. secs.19 and 24.
Over level prairie land.

.25
30.00
39.50
40.00

Wire fence, brs.E.and W. NW. cor.of wire fence brs. west
30 lks.dist.

Enter cultivated land, brs.E+and W.

Wagon road brs.E.and W.

Set an iron post 3 ft.long, 1 in. in diam., 26 ins. in
the ground for reestablished 1/4 sec.cor., with a brass
cap, marked,

1/4 S 24 in W.,
S 19 in E., and
1913 in S.half;

dig pits 18x18x12 ins., N.and S.of post, and raise
mound of earth 3 ft.base, 1 1/2 ft. high, west of cor.

51.00

Wire fence, brs.N.75°E., S°75°W.; leave cultivated field;
enter greasewood, 1 to 2 ft.high.

55.00
79.90

Dry wash, 10 lks.wide, 3 ft.deep, course N.75° E.
Wire fence brs.E.and W. SW:cor.of wire fence brs.west 30
lks.dist.

110. Resurvey of West bdy. of Township 10 South, Range 22 East.

Chains.

80.00 Set an iron post 3 ft. long, 3 ins. in diam., 24 ins. in the ground for reestablished cor. of secs. 19, 24, 25 and 30, with a brass cap, marked,
 T 10 S in N.,
 R 22 E in E.,
 1913 in S., and
 R 21 E in W. half;
 S 24 in NW.,
 S 19 in NE.,
 S 30 in SE., and
 S 25 in SW. quadrant;
 dig pits 18x18x12 ins. in each sec. 5½ ft. dist., and raise mound of earth 4 ft. base, 2 ft. high, west of cor. Land, level.
 Soil, red, sandy loam, medium texture, 6 to 18 ins. deep on clay subsoil.
 Scattering short grass and greasewood,
 No timber.

Thence I run,
 S. 0°02' W., on true line, bet. secs. 25 and 30.
 Over slightly rolling rocky land.

40.00 Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in ground for reestablished ¼ sec. cor., with a brass cap, marked,

¼ S 25 in W.,
 S 30 in E., and
 1913 in S. half;

raise mound of stone 3 ft. base, 2 ft. high, west of cor. Pits impracticable,

80.00 Set an iron post, 3 ft. long, 3 ins. in diam., 24 ins. in ground, for reestablished cor. of secs. 25, 30, 31 and 36, with a brass cap, marked,

T 10 S in N.,
 R 22 E in E.,
 1913 in S., and
 R 21 E in W. half;
 S 25 in NW.,
 S 30 in NE.,
 S 31 in SE., and
 S 36 in SW. quadrant;

raise mound of stone 3 ft. base, 2 ft. high, west of cor. Pits impracticable.

Note: From this cor., the original cor. of secs. 25, 30, 31 and 36, which is decayed remains of old post in mound of stone, brs. S. 9¼° W., 51 lks. dist. I destroy all trace of this old cor.

Land, slightly rolling

Soil, thin adobe, 6 ins. deep on clay subsoil, loose, rock, scattered over surface of ground.

Scattering short grass and greasewood, 1 to 2 ft. high on north end of line.

No timber.

Thence I run,
 S. 0°02' W., on true line, bet. secs. 31 and 36.
 Ascending rocky north slope, 300 ft.

.50 NE. cor. of wire fence brs. W. 10 lks. dist.; thence parallel to and east of wire fence.

18.00 Wire fence brs. E. and W.

35.00 Summit of ridge.

40.00 Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in ground for reestablished ¼ sec. cor., with a brass cap, marked,

¼ S 36 in W.,
 S 31 in E., and
 1913 in S. half;

Resurvey of West boundary of Township 10 South, Range 22 E. 111.

Chains.

raise mound of stone 3 ft. base, 2 ft. high, west of cor. Pits impracticable. From this cor., original $\frac{1}{4}$ sec. cor., which is a sandstone 16x8x8 ins., firmly set and marked as described by Surveyor General, brs. S. $3\frac{1}{2}^{\circ}$ W., 47 lks. dist.
 I destroy all trace of this old cor.
 41.00 Wire fence brs. N. $\frac{1}{2}^{\circ}$ W. and S. $\frac{1}{2}^{\circ}$ E.; thence along west side of fence.
 50.00 Descend steep rocky south slope, 500 ft.
 65.00 Foot of descent; thence over level land.
 78.00 Dry bed of Ash creek, course N. 80° E.
 79.50 Wire fence brs. E. and W.
 80.00 Intersect standard cor. of Tp. 10 S., Rs. 21 and 22 E., re-established by me, as described in Book "B" of this Group.
 Land, rough, and rocky, except at south end, which is level. Soil, from 0 to 65 chs. thin and rocky; 65 to 80 chs., loose, sandy loam, medium texture, 12 to 18 ins. deep on gravel subsoil.
 Short grass.
 Scattering sycamore and walnut trees along creek at south end of line.
 Jan. 25th, 1914.

Boundaries of Township 10 South, Range 22 East.
 Latitudes, departures, and closing errors.

Line designated.	True bearing.	Dist.	Latitudes.		Departures.	
			N.	S.	E.	W.
South bdy.,	(S. $89^{\circ}55'$ W.	280.575		.41		280.575
(2nd St. Par. S.	(N. $89^{\circ}59'$ W.	200.10	.06			200.10
West bdy.,	N. $0^{\circ}02'$ E.	479.71	479.71		.28	
	N. $89^{\circ}34'$ E.	39.94	.30		39.94	
North bdy.,	S. $89^{\circ}59'$ E.	159.36		.05	159.36	
	N. $89^{\circ}58'$ E.	280.18	.16		280.18	
East bdy.,	S. $0^{\circ}01'$ E.	480.42		480.42	.14	
Convergency,					.46	
Totals, -----			480.23	480.88	480.36	480.675
				480.23		480.36
Error in latitude, -----			0.65			
Error in departure, -----			0.315			

Resurvey of the North bdy. of Township 13 South, Range 24 E.

June 18th, 1914: At 8h. 30m. a.m., l.m.t., I set off $23^{\circ}25'$ N. on decl. arc; $32^{\circ}20'$ on lat. arc; and determine a meridian with the solar at the cor. of Ts. 12 and 13 S., Rs. 23 and 24 E., reestablished by me, as hereinbefore described.
 Thence I run,
 East, on random line, bet. secs. 31 and 6.
 80.50 Fall 56 lks. south of point for cor. of secs. 5, 6, 31 and 32, as determined by intersection of E. and W., and N. and S. lanes.
 At the above described point, I set an iron post, 3 ft. long, 3 ins. in diam., 24 ins. in the ground for reestablished cor. of secs. 5, 6, 31 and 32, with a brass cap, marked,
 T 12 S in N.,

112. Resurvey of North bdy. of Township 13 South, Range 24 E.

Chains.

R 24 E in E., and
 T 13 S 1913 in S. half;
 S 31 in NW.,
 S 32 in NE.,
 S 5 in SE., and
 S 6 in SW. quadrant;
 pits or mound impracticable, on account of proximity
 to wagon road. Deposit quart of broken glass around
 base of post, 12 ins. under ground.
 Thence I run, S. 89°36' W. on true line, bet. secs. 6 and 31.
 Over level, land through mesquite brush, 4 to 6 ft. high.
 Wagon road, brs. NW. hand; SE. mesquite brush, 4 to 6 ft. high.
 (Proportional distance). Set an iron post, 3 ft. long, 1
 in. in diam., 26 ins. in the ground for reestablished
 $\frac{1}{4}$ sec. cor., with a brass cap, marked $\frac{1}{4}$ S 31 in N.,
 and S 6 1913 in S. half; dig pits 18x18x12 ins., E.
 and W. of post, 3 ft. dist., and raise mound of earth
 $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high, north of cor.
 36.00 House brs. north 8 chs. dist.
 40.94 Wire fence brs. N. 70° W., and S. 70° E.
 44.00 Wire fence brs. N. and S.; thence across N. and S. lane.
 50.00 Wagon road, brs. N. and S.
 79.50 Reestablished cor. of Ts. 12 and 13 S., Rs. 23 and 24 E.,
 80.00 hereinbefore described.
 80.50 Land, level.
 Soil, loose, sandy loam, medium texture, 12 to 18 ins.
 deep on clay subsoil.
 Good grass, mesquite brush, 4 to 8 ft. high.
 No timber.

From the reestablished cor. of secs. 5, 6, 31 and 32, herein-
 before described, I run,
 East, on random line, bet. secs. 5 and 32.
 79.32 Fall 33 lks. north of point for cor. of secs. 4, 5, 32 and 33,
 as determined by the intersection of N. and S., and E.
 and W. lanes.
 At the above described point, I set an iron post, 3 ft.
 long, 3 ins. in diam., 24 ins. in ground for reestab-
 lished cor. of secs. 4, 5, 32 and 33, with a brass cap,
 marked,
 T 12 S in N.,
 R 24 E in E., and
 T 13 S 1913 in S. half;
 S 32 in NW.,
 S 33 in NE.,
 S 4 in SE., and
 S 5 in SW. quadrant;
 pits or mound impracticable. Deposit quart of broken
 glass around post 12 ins. below surface.
 Thence I run,
 N. 89°46' W., on true line, bet. secs. 5 and 32.
 Through center of lane, along wagon road.
 30.00 Enter scattering mesquite brush, 3 to 6 ft. high, brs. N.
 and S.
 37.50 Small frame school house, brs. S. 150 lks.
 39.66 Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in
 the ground for reestablished $\frac{1}{4}$ sec. cor., with a brass
 cap, marked,
 $\frac{1}{4}$ S 32 in N., and
 S 5, 1913 in S. half;
 deposit quart of broken glass around post, 12 ins. be-
 low surface. Pits or mound impracticable.
 From the above described cor., corners of wire fences
 bear N. and S., 50 lks. dist. each.
 Leave lane; thence along wagon road parallel to and 50 lks.
 S. of wire fence.
 78.80 SW. cor. of wire fence, brs. N. 50 lks. dist.
 79.32 The reestablished cor. of secs. 5, 6, 31 and 32.

Resurvey of North bdy. of Township 13 South Range 24 East. 113.

Chains.

Land, level.
Soil, loose, sandy loam, medium texture, 12 to 18 ins. deep, on clay subsoil.
Scattering grass, mesquite brush, 3 to 6 ft. high.
No timber.

80.22

From the cor. of secs. 4, 5, 32 and 33, hereinbefore described, I run,
East, on random line, bet. secs. 4 and 33.
Fall 16 lks. north of point for cor. of secs. 3, 4, 33 and 34, as determined by intersection of E. and W., and N. and S. lanes. I reestablish cor. at the above described point, as follows:
Set an iron post 3 ft. long, 3 ins. in diam., 24 ins. in the ground for cor. of secs. 3, 4, 33 and 34, with a brass cap, marked,
T 12 S in N.,
R 24 E in E., and
T 13 S 1913 in S. half;
S 33 in NW.,
S 34 in NE.,
S 3 in SE., and
S 4 in SW. quadrant;
deposit quart of broken glass around post, 12 ins. below surface. Pits or mound impracticable.

18.00
19.90
40.11

Thence I run,
N. 89° 53' W., on true line, bet. secs. 4 and 33.
Along center of lane, and along wagon road.
Small pumping plant, brs. S. 150 lks.
Cor. of wire fence, brs. S. 50 lks. dist.
Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in ground, for reestablished $\frac{1}{4}$ sec. cor., with a brass cap, marked,

$\frac{1}{4}$ S 33 in N., and
S 4, 1913 in S. half;

deposit quart of broken glass around post, 12 ins. below surface. Pits or mound impracticable.

80.22

From the above described cor., corners of wire fences bear N. and S., 50 lks. dist. each; thence along wagon road. The reestablished cor. of secs. 4, 5, 32 and 33, hereinbefore described.

Land, level.
Soil, loose, sandy loam, medium texture, 12 to 18 ins. deep on clay subsoil.
Short grass.
No timber.

79.27

From the reestablished cor. of secs. 3, 4, 33 and 34, hereinbefore described, I run,
East, on random line, bet. secs. 3 and 34.
Fall 120 lks. N. of point for cor. of secs. 2, 3, 34 and 35, as determined by intersection of E. and W., and N. and S. lanes. I reestablish cor. at the above described point, as follows:
Set an iron post 3 ft. long, 3 ins. in diam., 24 ins. in ground, for cor. of secs. 2, 3, 34 and 35, with a brass cap, marked,
T 12 S in N., R 24 E in E., and
T 13 S 1913 in S. half; S 34 in NW.,
S 35 in NE., S 2 in SE., and
S 3 in SW. quadrant;
deposit quart of broken glass around post, 12 ins. below surface. Impracticable to dig pits, or raise mound.

Thence I run,
N. 89° 08' W., on true line, bet. secs. 3 and 34, along wagon road.

114. Resurvey of North bdy. of Township 13 South, Range 24 East.

Chains.

- .50 NE. cor. of wire fence, brs. S. 50 lks. dist.; thence parallel to and 50 lks. north of wire fence.
- 39.64 Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in the ground for reestablished $\frac{1}{4}$ sec. cor., with a brass cap, marked,
 $\frac{1}{4}$ S 34 in N., and
 S 3, 1913 on S-half;
 deposit quart of broken glass around post, 12 ins. below surface. Pits or mound impracticable.
 From the above described cor., corners of wire fences bear N. and S., 50 lks. dist., each; thence along center of lane, and along wagon road.
- 43.00 Small cabin brs. S. 5 chs. dist.
- 79.28 Intersect reestablished cor. of secs. 3, 4, 33 and 34, hereinbefore described.
 Land, level.
 Soil, light, sandy loam, medium to fine texture, 12 to 18 ins. deep on clay and hardpan subsoil.
 Scattering short grass.
 No timber.
-
- 79.80 From the reestablished cor. of secs. 2, 3, 34 and 35, hereinbefore described, I run,
 East, on random line, bet. secs. 2 and 35.
 Fall 16 lks. north of point for cor. of secs. 1, 2, 35 and 36, as determined by intersection of east and west, and north and south lanes, I reestablish cor. at the above described point, as follows:
 Set an iron post 3 ft. long, 3 ins. in diam., 24 ins. in the ground for cor. of secs. 1, 2, 35 and 36, with a brass cap, marked,
 T 12 S in N.,
 R 24 E in E., and
 T 13 S 1913 in S. half;
 S 35 in NW.,
 S 36 in NE.,
 S 1 in SE., and
 S 2 in SW. quadrant;
 deposit quart of broken glass around post, 12 ins. below surface. Pits or mound impracticable.
 Thence I run,
 N. 89° 53' W. on true line, bet. secs. 2 and 35,
 Through center of lane, mesquite brush 4 to 8 ft. high along wagon road.
- 30.00 Corner of wire fence, brs. S. 50 lks.
- 31.00 Windmill and reservoir, brs. S. 150 lks.
- 38.00 C. F. Dohm's house, brs. S. 3 chs. dist.
- 39.90 Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in the ground for reestablished $\frac{1}{4}$ sec. cor., with a brass cap, marked,
 $\frac{1}{4}$ S 35 in N.,
 S 2 1913 in S. half;
 deposit quart of broken glass around post 12 ins. below surface. Pits or mound impracticable.
 From the above described cor., corners of wire fences bear north and south, 50 lks. dist. each; thence along wagon road.
- 42.50 S. Y. Dohm's house brs. S. 2 chs. dist.; also J. T. Kirby's house brs. N. 10 chs. dist.
- 79.80 The reestablished cor. of secs. 2, 3, 34 and 35, hereinbefore described.
 Land, level.
 Soil, loose, sandy loam, medium texture, 8 to 14 ins. deep on clay and hardpan subsoil.
 Scattering grass, mesquite brush, 4 to 8 ft. high.
 No timber.

Resurvey of North boundary of Township 13 South, Range 24 E. 115.

Chains.

79.70 From the reestablished cor. of secs. 1, 2, 35 and 36, hereinbefore described, I run, East, on random line, bet. secs. 1 and 36. Fall 23 lks. north of cor. of Ts. 12 and 13 S., Rs. 24 and 25 E., reestablished by me, as hereinbefore described.

17.00 Thence I run, N. 89° 50' W. on true line, bet. secs. 1 and 36. Over level land, through mesquite brush, 4 to 8 ft. high, parallel to and 50 lks. north of wire fence, along wagon road. SE. cor. of wire fence, brs. N. 50 lks. dist.; thence through center of lane.

18.00 Windmill and reservoir brs. N. 3 chs. dist.

39.85 Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in the ground for reestablished $\frac{1}{4}$ sec. cor., with a brass cap, marked, $\frac{1}{4}$ S 36 in N., and S 1 1913 in S. half; deposit quart of broken glass around post, 12 ins. below surface. Pits or mound impracticable.

79.70 The reestablished cor. of secs. 1, 2, 35 and 36, hereinbefore described. Land, level. Soil, loose, gravelly, sandy loam, medium to coarse texture, 8 to 14 ins. deep on clay subsoil. Scattering grass, mesquite brush, 4 to 8 ft. high. No timber.

Note: At the cor. of secs. 3, 4, 33 and 34, I set off 23° 25' N. on decl. arc, and at 12h. 0m. 43s., p.m., l.m.t., observe the sun on the meridian, and obtain a reading of 32° 20' on lat. arc.

June 18th, 1914.

Boundaries of Township 13 South, Range 24 East. Latitudes, departures. and closing errors.

Line designated.	True bearing.	Distance.	Latitudes.		Departures.	
			N.	S.	E.	W.
South bdy..	N. 89° 57' W.	482.04	.42			482.04
West bdy.,	N. 0° 07' E.	79.96	79.96		0.16	
	N. 0° 05' E.	119.65	119.65		0.18	
North bdy.,	N. 0° 09' W.	280.07	280.07			0.73
	N. 89° 36' E.	80.50	0.56		80.50	
	S. 89° 46' E.	79.32		0.32	79.32	
	S. 89° 53' E.	160.02		0.32	160.02	
	S. 89° 08' E.	79.28		1.20	79.27	
East bdy.,	S. 89° 50' E.	79.70		0.23	79.70	
	S. 0° 39' E.	79.47		79.46	0.90	
Convergency.	S. 0° 15' E.	399.15		399.15	1.74	
					0.46	
Totals, -----			480.66	480.68	482.25	482.77
				480.66		482.25
Error in latitude, -----			0.02			
Error in departure, -----					0.52	

Thomas B. Matthews
U. S. Surveyor.

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Blk A
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BOOK 2720

CERTIFICATE OF ASSISTANTS.

We, the undersigned, hereby certify upon honor that we assisted, to the best of our skill and ability,
Thomas B. Matthews, U. S. Surveyor, during the periods and in the capacities
stated opposite our several signatures, in surveying all those parts or portions of *Tk. & S. lds*
of T. 12 & R. 24 E

of the *Sierra Salt River* 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 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.	
<i>H. H. Wolford</i>			
<i>H. H. Palmer</i>	<i>June 18 1914</i>	<i>July 1 1914</i>	<i>Chairman</i>
<i>Edward Dittmer</i>	<i>June 18 1914</i>	<i>July 15 1914</i>	<i>Chairman</i>
<i>Vinton Hays</i>	<i>July 6 1914</i>	<i>July 15 1914</i>	<i>Flagman</i>
<i>R. B. Hart</i>	<i>June 15 1914</i>	<i>July 1 1914</i>	<i>Flagman</i>
<i>Carl D. Cook</i>	<i>June 18 1914</i>	<i>July 15 1914</i>	<i>mounds man</i>

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

Thomas B. Matthews
U. S. Surveyor.

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ECCO 2720

FINAL OATH OF UNITED STATES SURVEYOR.
(same applies to Book "C" of this Group)

I, Thomas B. Matthews, U. S. Surveyor, do solemnly swear that, in pursuance of special instructions received from the U. S. Surveyor General for Arizona dated April 21, May 7 and July 25, 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, surveyed all those parts or portions of Exhians of T. 10 S., R. 22 & 24 E., T. 11 S., R. 23 & 24 E., T. 12 S., R. 23 & 24 E., T. 13 S., R. 24 & 25 E., T. 14 S., R. 24 & 25 E., T. 16 S., R. 25 E., the W. bdy. T. 15 S., R. 25 E. & the W. bdy. T. 15 S., R. 24 E.

of the Gila & Salt River Meridian, in the State of Arizona, which are represented in the foregoing field notes, ^{and those in Book "C" of this group} 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 Arizona and in the specific manner described in the field notes, and that the foregoing ^{and notes in Book "C" of this group} are the original field notes of such survey.

Thomas B. Matthews
U. S. Surveyor.

Subscribed by said Thomas B. Matthews and sworn to before me }
this 29 day of August, 1914

J. L. M. Court
United States Comm. ~~clerk~~



APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,
Phoenix Arizona, March 20, 1915

The foregoing field notes of the survey of Retracement and Resurvey of the West and fractional N. bdrs. of T. 10 S., R. 22 E., the East and N 1/2 of West bdy. of T. 15 S., R. 24 E. and the boundaries of T. 11 and 12 S., R. 23 and 24 E.; T. 13 and 14 S., R. 24 and 25 E.; and T. 16 S., R. 25 E. and bdrs. of the WILL COX TOWNSITE, in T. 13 & 14 S., R. 25 E. of the Gila and Salt River Base and Meridian in the State of Arizona.

executed by Thomas B. Matthews, U.S. Surveyor under his special instructions dated April 21 and May 7, 1913 for Group 25, 1913, having been critically examined, and the necessary corrections and explanations made, the said field notes, and the resurveys they describe, are hereby approved.

Frank A. 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.

CERTIFICATE OF ASSISTANTS.
(same applies to Book "C" of this Group)

We, the undersigned, hereby certify upon honor that we assisted, to the best of our skill and ability,

Thomas B. Matthews, U. S. Surveyor, during the periods and in the capacities

stated opposite our several signatures, in surveying all those parts or portions of Extremes of

T10 of R 22 & 23 E, T11 of R 23 & 24 E, T12 of R 23
& 24 E, T13 of R 24 & 25 E, T14 of R 24 & 25 E &
T16 of R 25 E, T15 of R 25 E & N. W.
1/4 of T15 of R 24 E

of the Standard Meridian Meridian, in the State of Wisconsin

and those in Book "C" of this group which are represented in the foregoing field notes, as having been executed by him, and under his direction; and that said 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.	
<u>C. R. Fisher</u>	<u>May 4 1913</u>	<u>July 8 1913</u>	<u>Flagman</u>
<u>R. W. Sprinkle</u>	<u>May 4 1913</u>	<u>Aug 31 1914</u>	<u>measured man</u>
<u>Tau J. J. J.</u>	<u>Sept 1 1913</u>	<u>Sept 6 1913</u>	<u>Assman</u>
<u>R. J. Kuffin</u>	<u>May 4 1913</u>	<u>Sept 24 1913</u>	<u>Chairman</u>
<u>William Lester</u>	<u>May 4 1913</u>	<u>Sept 30 1913</u>	<u>Chairman</u>
<u>George Woodcock</u>	<u>Aug 8 1913</u>	<u>Aug 31 1913</u>	<u>Observer</u>
<u>Edward Ditmars</u>	<u>July 9 1913</u>	<u>Sept 21 1913</u>	<u>Flagman</u>
<u>H. H. Palmer</u>	<u>Sept 22 1913</u>	<u>Sept 30 1913</u>	<u>Flagman</u>
<u>R. B. Haw</u>	<u>Nov. 4 1913</u>	<u>Feb 21 1914</u>	<u>Assman</u>
<u>E. H. Tenley</u>	<u>Oct 6 1913</u>	<u>Feb 21 1914</u>	<u>Flagman</u>
<u>Edward Ditmars</u>	<u>Sept 22 1913</u>	<u>Feb 25 1914</u>	<u>Chairman</u>
<u>H. H. Palmer</u>	<u>Oct 1 1913</u>	<u>Feb 24 1914</u>	<u>Chairman</u>
<u>G. W. Woodcock</u>	<u>Sept 1 1913</u>	<u>Feb 25 1914</u>	<u>Measured Man</u>

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

Thomas B. Matthews

U. S. Surveyor.