

Book " C "

Exteriors

BOOK 2737

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of the Gila and Salt River Base and Meridian

in the State of Arizona.

EXECUTED BY

Jesse B. Wright

and

William H. Elliott

In the capacity of U. S. Surveyor, under instructions dated May 28, 1913,

issued by the United States Surveyor General to govern surveys included in

Group No. 30, which were approved by the Commissioner of the General Land

Office, June 6, 1913, pursuant to authority contained in the Act of

Congress dated August 23, 1912 and June 23, 1913

Survey commenced June 28, 1913

Survey completed November 4, 1913

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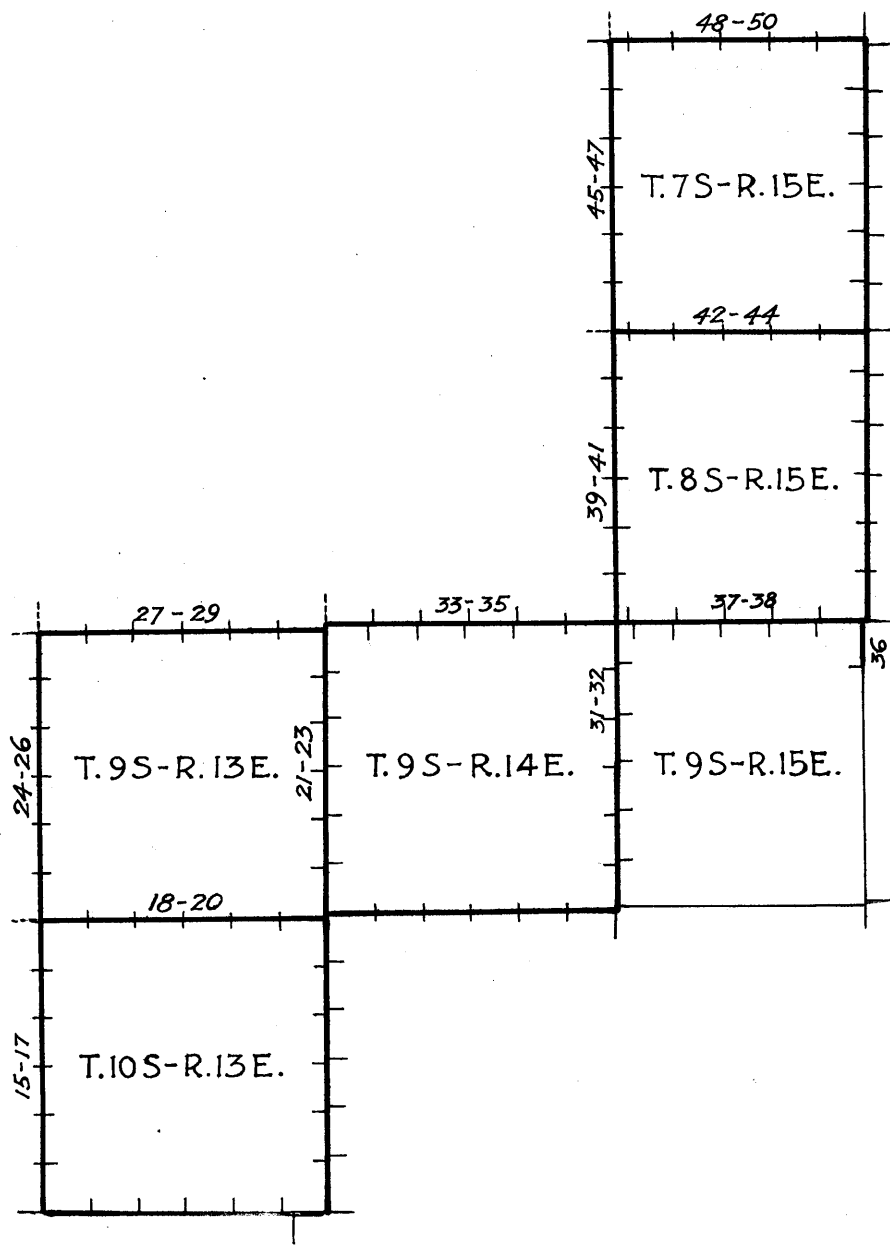
# Book "C"

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Gp. 30-Ariz.

BOOK 2737

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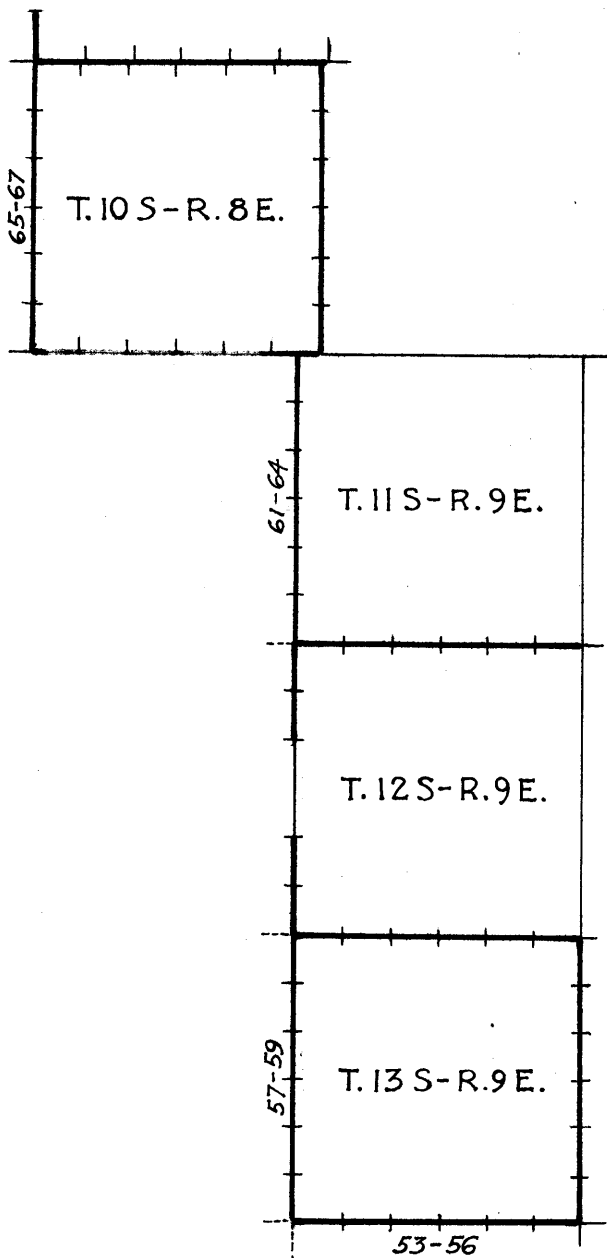
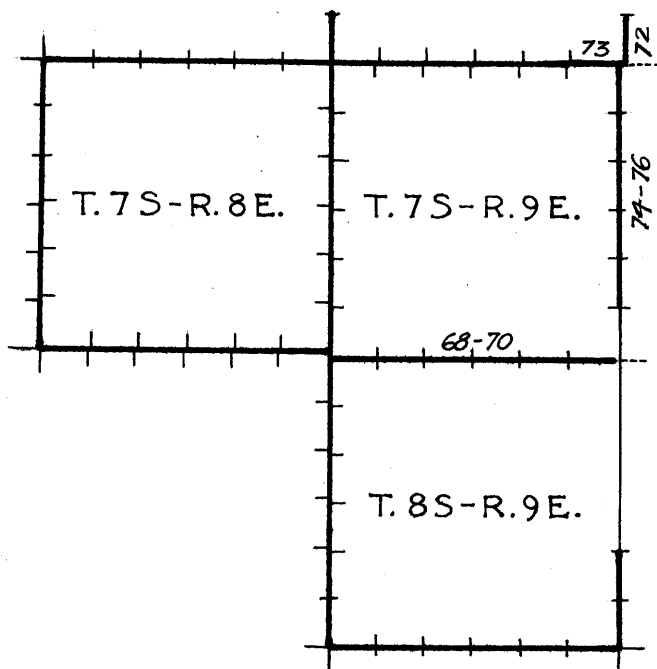
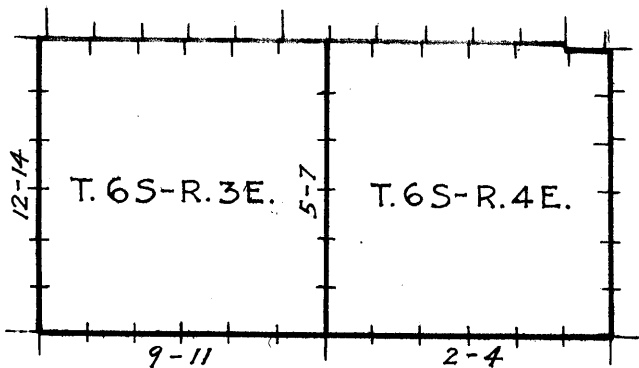
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Book "C"

INDEX DIAGRAM

BOOK 2737

Gp. 30



Chains.

Surveys under Group No. 30, Ariz. commenced June 23, 1913, and executed jointly by Jesse B. Wright and William H. Elliott, U. S. Surveyors, Wright using transit No. 8145, and Elliott using transit No. 8492, with transit No. 6460 for emergencies, all instruments being light mount ~~air~~transits made by Young & Son's, with Smith patent solar attachments on side, the horizontal limbs having two double verniers placed opposite to each other, each vernier reading to single minutes of arc, which is also the least reading of the verniers of the latitude and declination arcs of the solars.

For convenience, the instruments are designated by their respective numbers as 8145, 8492, and 6460.

At 11h 45m a.m., at our temporary camp, which is located near the Standard cor. of Tps. 5 S., Rs. 3 & 4 E., in lat. 32°56'28" N., long. 111°59'48" W., we examine, test, and adjust the levels, the standards, and lines of collimation of the transits, and also the latitude arcs, the solar lines and lenses of the solar attachments; then, in order to test the solar apparatus by comparing the results of observations on the sun, for meridian, made during a.m. & p.m. hours, with a true meridian determined by observations on Polaris, we proceed as follows :

At 12h 01m 51s p.m., l.m.t., we set off 23°26½' N. on the decl. arcs, and observe the sun on the meridian.

The resulting lat. as given by each instrument is 32°57' N., (our camp being somewhat north of the 1st Std. Par. S., as developed later.) this result showing that the relative adjustments of the verniers of the latitude and declination arcs are correct.

At 3h p.m., l.m.t., we set off 23°27' N. on the decl. arcs, and our observed lat. 32°57' N. on the lat. arcs, and determine meridians with the solars and mark the meridians thus determined by small tacks in a stake driven firmly in the ground 5 chs. N. of our station, points marked a, b, and c, for 8145, 8492, and 6460 respectively.

At 7h 22m p.m., l.m.t., we observe Polaris at lower culmination, and mark the meridian thus determined by a tack in the stake 5 chs. N. of our station, marking this point P. June 23, 1913.

June 24, 1913.

At 4h a.m., l.m.t., we make an observation on Polaris with each instrument, and by calculation deduce the following :

Polaris at upper culmination this day at 7h 20m a. m.  
Time of observation of Polaris, ----- 4h 0m a. m.  
Hour angle of Polaris at observation, --- 3h 20m., which reduced to degrees = 50°

Azimuth of Polaris at elong. this date, lat. and long. = 1°23' = 83'; sin. 50°x83' = .76604x83' = 62.6', or 1°02½' about, = azimuth of Polaris at time of observation, 4h a.m., which agrees with tabulated azimuth from Ephemeris.

Therefore, from our line of observation we set off 1°02½' to the West, and find that the true meridian thus determined agrees with that determined by observation on Polaris on preceding evening, line point P, which falls .40 ins. W., .40 ins. W., and .60 ins. W. respectively, of points a, b, and c.

At 7h a.m., l.m. t., we set off 23°26½' N. on the decl. arcs, and 32°57' N. on the lat. arcs, and determine meridians with the solars, and mark the meridians thus determined by tacks in the stake 5 chs. N. of our station, marked a', b', and c' for 8145, 8492, and 6460 respectively, which points fall .60 ins. W., .50 ins. W., and .75 ins. E. respectively, of the true meridian point P as determined by observation on Polaris. Therefore, by p.m. & a.m. hours observations the transits give following results :

8145, 20" E., and 30" W. of true meridian,  
8492, 20" E., and 26" W. of true meridian,

6460, 30" E., and 40" E. of true meridian; therefore we conclude that the instruments are in satisfactory adjustment.

## Chains.

(Note :- Initials J. B. W. and W. H. E. designate lines run by Jesse B. Wright and William H. Elliott, respectively.)

June 28, 1913.

At 8h a.m., l.m.t., at the cor. of Tps. 6 & 7 S., Rs. 4 & 5 E., as recently re-established by William H. Elliott, and described in Book "A", in lat.  $32^{\circ}51'15''$  N., long.  $111^{\circ}53'36''$  W.,

I set off  $239^{\circ}19'$  N. on the decl. arc, and  $32^{\circ}51'$  N. on the lat. arc, and determine a meridian with the solar. Thence I run, as per instructions, on true line, West, on S. bdy. of T. 6 S., R. 4 E., bet. secs. 1 & 36. Var.  $13^{\circ}45'$  E.

Over gently rolling land, through dense mesquite brush, greasewood, scattering cacti.

40.00 Set an iron post 3 ft. long, 1 in. in diam. 26 ins. in the ground for  $\frac{1}{4}$  sec. cor., marked on brass cap, 1913 on S. rim,  $\frac{1}{4}$  S 36 in N., and S 31 in S. half;

dig pits  $18 \times 18 \times 12$  ins. E. & W. of cor. 3 ft. dist., and raise a mound of earth  $3\frac{1}{2}$  ft. base,  $1\frac{1}{2}$  ft. high N. of cor. No bearings available.

80.00 Set an iron post 3 ft. long, 3 ins. in diam. 24 ins. in the ground for cor. of secs. 1, 2, 35 & 36, marked on brass cap, T 6 S, in N.,

T 7 S, in S., and

R 4 E, in W. half,

S 35 in NW.,

S 36 in NE.,

S 1 in SE., and

S 2 in SW. quad.; 1913 on S. rim,

dig pits  $18 \times 18 \times 12$  ins. in each sec.  $5\frac{1}{2}$  ft. dist., and raise a mound of earth 4 ft. base, 2 ft. high W. of cor. No bearings available.

Land, gently rolling.

Soil, 2nd & 3rd rate, sandy, loamy, with some clay intermixed in places.

No timber.

Undergrowth, scrub mesquite, greasewood, cacti, sparse grass.

West, bet. secs. 2 & 35.

Over gently rolling land, through dense greasewood and sage brush.

10.00 Leave brush, brs. NW. & SE.

40.00 Set an iron post 3 ft. long, 1 in. in diam. 26 ins. in the ground for  $\frac{1}{4}$  sec. cor., marked on brass cap, 1913 in S. rim,  $\frac{1}{4}$  S 35 in N., and S 2 in S. half; No bearings available

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

60.20 Road, brs. NNW. & SSE., but little used.

61.00 Enter mesquite and sage brush, brs. N. & S.

80.00 Set an iron post 3 ft. long, 3 ins. in diam. 24 ins. in the ground for cor. of secs. 2, 3, 34 & 35, marked on brass cap, T 6 S in N.,

T 7 S in S., and

R 4 E in W. half, 1913 in S. rim,

S 34 in NW.,

S 35 in NE.,

S 2 in SE., and

S 3 in SW. quad.; No bearings available,

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

Land, gently rolling, drains to N.

Soil, 2nd & 3rd rate, sandy, loamy, clayey.

Greasewood, sage brush, mesquite, cacti, sparse grass.

Chains.

West, bet. secs. 3 & 34.  
 Over gently rolling land, through greasewood and sagebrush.

40.00 Set an iron post 3 ft. long, 1 in. in diam. 26 ins. in the ground for  $\frac{1}{4}$  sec. cor., marked on brass cap, 1913 in S. rim,  $\frac{1}{4}$  S 34 in N., and S 3 in S. half; No bearings available. dig pits 18x18x12 ins. E. & W. of cor. 3 ft. dist., and raise a mound of earth  $3\frac{1}{2}$  ft. base,  $1\frac{1}{2}$  ft. high N. of cor.

80.00 Set an iron post 3 ft. long, 3 ins. in diam. 24 ins. in the ground for cor. of secs. 3, 4, 33 & 34, marked on brass cap, T 6 S in N., T 7 S in S., and R 4 E in W. half; 1913 in S. rim, S 33 in NW., S 34 in NE., S 3 in SE., and S 4 in SW. quad.; No bearings available 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 W. of cor.

Land, gently rolling, level.  
 Soil, 2nd & 3rd rate, sandy, loamy, dry.  
 Greasewood, sage brush, mesquite, sparse grass.  
 At this cor., at noon, I set off  $23^{\circ}18'$  N. on the decl. arc, and observe the sun on the meridian.  
 The resulting lat. is  $32^{\circ}51'$  N.

West, bet. secs. 4 & 33.  
 Over gently undulating land, subject to overflow from washes from S., through dense greasewood, mesquite.

40.00 Set an iron post 3 ft. long, 1 in. in diam. 26 ins. in the ground for  $\frac{1}{4}$  sec. cor., marked on brass cap, 1913 in S. rim,  $\frac{1}{4}$  S 33 in N., and S 4 in S. half; No bearings available, dig pits 18x18x12 ins. E. & W. of cor. 3 ft. dist., and raise a mound of earth  $3\frac{1}{2}$  ft. base,  $1\frac{1}{2}$  ft. high N. of cor.

42.00 Leave overflow land, trends to N, said lands being covered with silt and vegetable mold, and lying in a broad shallow draw, no definite channel.

80.00 Set an iron post 3 ft. long, 3 ins. in diam. 24 ins. in the ground for cor. of secs. 4, 5, 32 & 33, marked on brass cap, T 6 S in N., T 7 S in S., and R 4 E in W. half, 1913 in S. rim, S 32 in NW., S 33 in NE., S 4 in SE., and S 5 in SW. quad.; No bearings available, 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 W. of cor.

Land, gently undulating, level, drains to NNW.  
 Soil, 2nd rate, sandy, loamy, fertile.  
 Greasewood, sage brush, mesquite, cacti, sparse grass.

## Chains.

West, bet. secs. 5 & 32.  
 Over gently undulating land, drainage to NW.,  
 through dense greasewood, mesquite, and sage brush.  
 29.25 Old dry irrigation ditch, course NW., 10 lks. wide.  
 40.00 Set an iron post 3 ft. long, 1 in. in diam. 26 ins. in  
 the ground for  $\frac{1}{4}$  sec. cor., marked on brass cap, 1913 in  
 S. rim,  $\frac{1}{4}$  S 32 in N., and  
 S 5 in S. half; No bearings available,  
 dig pits 18x18x12 ins. E. & W. of cor. 3 ft. dist., and  
 raise a mound of earth  $3\frac{1}{2}$  ft. base,  $1\frac{1}{2}$  ft. high N. of cor.  
 80.00 Set an iron post 3 ft. long, 3 ins. in diam. 24 ins. in  
 the ground for cor. of secs. 5, 6, 31 & 32, marked on  
 brass cap, T 6 S in N.,  
 T 7 S in S., and  
 R 4 E in W. half, 1913 in S. rim,  
 S 31 in NW.,  
 S 32 in NE.,  
 S 5 in SE., and  
 S 6 in SW. quad.; No bearings available,  
 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 W. of cor.  
 Land, gently undulating.  
 Soil, 2nd rate, sandy, loamy, loose, dry.  
 Mesquite, greasewood, sage brush, cacti, sparse grass.

West, bet. secs. 31 & 6.  
 Over gently rolling land, drains to N., through dense  
 mesquite brush, greasewood, sage brush.  
 15.25 Dim road, brs. NNW. & SSE.  
 40.00 Set an iron post 3 ft. long, 1 in. in diam. 26 ins. in  
 the ground for  $\frac{1}{4}$  sec. cor., marked on brass cap, 1913 in  
 S. rim,  $\frac{1}{4}$  S 31 in N., and  
 S 6 in S. half; No bearings available,  
 dig pits 18x18x12 ins. E. & W. of cor. 3 ft. dist., and  
 raise a mound of earth  $3\frac{1}{2}$  ft. base,  $1\frac{1}{2}$  ft. high N. of cor.  
 47.70 Road, brs. NW. & SE.  
 78.14 Allowing 186 lks. for convergency, as per instructions, at  
 Set an iron post 3 ft. long, 3 ins. in diam. 24 ins. in  
 the ground for cor. of Tps. 6 & 7 S., Rs. 3 & 4 E.,  
 marked on brass cap, 1913 in S. rim,  
 T 6 S in N.,  
 T 7 S in S.,  
 R 3 E in W., and  
 R 4 E in E. half,  
 S 36 in NW.,  
 S 31 in NE.,  
 S 6 in SE., and  
 S 1 in SW. quad.;  
 dig pits 24x24x12 ins., N., E. & W., 4 ft., and S. of  
 cor. 8 ft. dist., and  
 raise a mound of earth 5 ft. base,  $2\frac{1}{2}$  ft. high S. of cor.  
 No trees of sufficient size in limits. From this cor.,  
 A conical butte at west side of small range of  
 mountains brs. S.  $14\frac{1}{2}^{\circ}$  W., about 18 miles dist.  
 SW. edge of top of well defined mesa mountain  
 brs. S.  $50^{\circ}24'$  W., about 7 miles dist.  
 A conical butte about 3 miles to NW. of same mesa  
 mountain brs. S.  $72^{\circ}27'$  W., about ten miles dist.  
 Highest peak of Estrella Mountains brs. N.  $28^{\circ}35'$  W.  
 Highest peak of Sacaton Hills brs. N.  $34^{\circ}01'$  E.  
 Land, gently rolling, drains to N.  
 Soil, 2nd rate, sandy, loose, loamy, dry.  
 Mesquite, paloverde, greasewood, sage brush, sparse grass.

June 28, 1913.

J.B.W.



Chains

July 2, 1913. J.B.W.  
 At 8h a.m., l.m.t., at the cor. of Tps. 6 & 7 S., Rs. 3 & 4 E., estab. by means hereinbefore described, I set off 23°04½' N. on the decl. arc, and 32°51' N. on the lat. arc, and determine a meridian with the solar. Thence I run, as per instructions, on a true line, North, on W. bdy. of Tp., bet. secs. 31 & 36. Over gently undulating land, drains to NNW., through greasewood, sage brush, and mesquite. Var. 13°45' E.

- 40.00 Set an iron post 3 ft. long, 1 in. in diam. 26 ins. in the ground for ¼ sec. cor., marked on brass cap, ¼ S 36 in W., and S 31 in E. half; 1913 in S.rim, dig pits 18x18x12 ins. N. & S. of cor. 3 ft. dist., and raise a mound of earth 3½ ft. base, 1½ ft. high W. of cor. No bearings available.
- 80.00 Set an iron post 3 ft. long, 3 ins. in diam. 24 ins. in the ground for cor. of secs. 25, 30, 31 & 36, marked on brass cap, T 6 S in N. half, 1913 in S.rim, R 3 E S 25 in NW., R 4 E S 30 in NE., S 31 in SE., and S 36 in SW. quad.; No bearings available dig pits 18x18x12 ins. in each sec. 5½ ft. dist., and raise a mound of earth 4 ft. base, 2 ft. high W. of cor. Land, gently undulating, drains to NNW. Soil, 2nd rate, sandy, loamy, dry. Greasewood, sage brush, mesquite, cacti, sparse grass.

North, bet. secs. 25 & 30.  
 Over gently undulating valley.

- 2.50 Road, brs. NW. & SE.
  - 40.00 Set an iron post 3 ft. long, 1 in. in diam. 26 ins. in the ground for ¼ sec. cor., marked on brass cap, 1913 in S.rim, ¼ S 25 in W., and S 30 in E. half; from which, A mesquite tree 12 ins. diam. brs. N. 34°E. 217 lks. dist., marked ¼ S 30 B T. A mesquite tree 8 ins. diam. brs. S. 26½°W. 215 lks. dist., marked ¼ S 25 B T.
  - 76.75 Road, brs. NW. & SE.
  - 80.00 Set an iron post 3 ft. long, 3 ins. in diam. 24 ins. in the ground for cor. of secs. 19, 24, 25 & 30, marked on brass cap, T 6 S in N. half, 1913 in S. rim, R 3 E S 24 in NW., R 4 E S 19 in NE., S 30 in SE., and S 25 in SW. quad.; from which, A mesquite tree 12 ins. diam. brs. N. 40¼°E. 200 lks. dist., marked T 6 S R 4 E S 19 B T. A mesquite tree 12 ins. diam. brs. S. 89½°E. 137 lks. dist., marked T 6 S R 4 E S 30 B T. A mesquite tree 12 ins. diam. brs. S. 71¼°W. 127 lks. dist., marked T 6 S R 3 E S 25 B T. A mesquite tree 12 ins. diam. brs. N. 15½°W. 70 lks. dist., marked T 6 S R 3 E S 24 B T.
- Land, gently undulating, level.  
 Soil, 2nd rate, sandy, loamy, loose, dry.  
 Mesquite, greasewood, sage brush, sparse grass.

Chains.	North, bet. secs. 19 & 24. Over gently undulating valley, through dense mesquite, greasewood, and palochristo brush.
30.00	Leave mesquite, brs. E. & W.
37.54	Road, brs. NW. & SE.
40.00	Set an iron post 3 ft. long, 1 in. in diam. 26 ins. in the ground for $\frac{1}{4}$ sec. cor., marked on brass cap, $\frac{1}{4}$ S 24 in W., and S 19 in E. half; 1913 in S. rim, dig pits 18x18x12 ins. N. & S. of cor. 3 ft. dist., and raise a mound of earth $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high W. of cor. No trees available.
80.00	Set an iron post 3 ft. long, 3 ins. in diam. 24 ins. in the ground for cor. of secs. 13, 18, 19 & 24, marked on brass cap, T 6 S in N. half, 1913 in S. rim, R 3 E S 13 in NW., R 4 E S 18 in NE., S 19 in SE., and S 24 in SW. quad.; No bearings available 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 W. of cor. Land, level. Soil, 2nd rate, sandy, loose, loamy, dry. Mesquite, greasewood, sage brush, cacti, sparse grass. At this cor., at noon, I set off $23^{\circ}03\frac{1}{2}'$ N. on the decl. arc, and observe the sun on the meridian. The resulting lat. is $32^{\circ}54'$ N., which is within 1' of the exact latitude.
	North, bet. secs. 13 & 18. Over gently rolling valley, loose sandy soil, through dense greasewood.
1.42	Dim road, brs. WNW. & ESE.
40.00	Set an iron post 3 ft. long, 1 in. in diam. 26 ins. in the ground for $\frac{1}{4}$ sec. cor., marked on brass cap, 1913 in S. rim, $\frac{1}{4}$ S 13 in W., and S 18 in E. half; No bearings available. dig pits 18x18x12 ins. N. & S. of cor. 3 ft. dist., and raise a mound of earth $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high W. of cor.
80.00	Set an iron post 3 ft. long, 3 ins. in diam. 24 ins. in the ground for cor. of secs. 7, 12, 13 & 18, marked on brass cap, T 6 S in N. half, 1913 in S, rim, R 3 E S 12 in NW., R 4 E S 7 in NE., S 18 in SE., and S 13 in SW. quad.; No bearings available, 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 W. of cor. Land, rolling. Soil, 3rd rate, sandy, loose, dry. Sage brush, greasewood, sparse grass.

West Boundary of T. 6 S., R. 4 E.

Chains North, bet. secs. 7 and 12.  
 Over rolling land, loose sandy soil, through greasewood and sage brush.

40.00 Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in the ground, for  $\frac{1}{4}$  sec. cor., marked on brass cap, 1913 in S. rim,  $\frac{1}{4}$  S 12 in W., and  
           S 7 in E. half; no bearings available;  
 dig pits, 18x18x12 ins., N. and S. of cor., 3 ft. dist.; and raise a mound of earth, 3 $\frac{1}{2}$  ft. base, 1 $\frac{1}{2}$  ft. high. W. of cor.

80.00 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, marked on brass cap, T 6 S in N. half, 1913 on S. rim,  
           R 3 E S 1 in NW.;  
           R 4 E S 6 in NE.;  
           S 7 in SE.; and  
           S 12 in SW. quad.;  
 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, W. of cor.  
 No trees available.  
 A small tent house, now vacant, brs. N. 4° 56' W., about 3.50 chs. dist.  
 Land, rolling.  
 Soil, 3rd rate, sandy, loose, dry.  
 Sage brush, greasewood, sparse grass.

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North, bet. secs. 1 and 6.  
 Over gently rolling land, through dense greasewood.

16.00 Road, brs. E. and W.  
 32.00 Road, brs. SE. and NW.  
 40.00 Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in the ground, for  $\frac{1}{4}$  sec. cor., marked on brass cap, 1913 in S. rim,  $\frac{1}{4}$  S 1 in W., and  
           S 6 in E. half; no bearings available;  
 dig pits, 18x18x12 ins., N. and S. of cor., 3 ft. dist.; and raise a mound of earth, 3 $\frac{1}{2}$  ft. base, 1 $\frac{1}{2}$  ft. high, W. of cor.

60.00 Din road, brs. E. and W.  
 93.72 Intersect First Standard Parallel South, whence standard cor. of secs. 31 and 32, T. 5 S., R. 4 E., brs. N. 89° 46' E., 3.84 chs. dist., recently re-established by W. H. Elliott, and by him described in Book "B."  
 Set an iron post, 3 ft. long, 3 ins. in diam., 24 ins. in the ground, for closing cor. of Tps. 6 S., Rs. 3 and 4 E., marked on brass cap, 1913 on S. rim,  
           C C, S. of centre,  
           T 5 S R 4 E, S 31, S 32, in N., and  
           T 6 S, in S. half;  
           R 4 E S 6 in SE., and  
           R 3 E S 1 in SW. quad.;  
 dig pits, 30x24x12 ins., crosswise on each line, E. and W. 4 ft., and S. of cor. 8 ft. dist.; and raise a mound of earth, 5 ft. base, 2 $\frac{1}{2}$  ft. high, S. of cor. No bearings available.

July 2, 1913.

## General Description.

The South and West Boundaries of T. 6 S., R. 4 E., as surveyed by me, lie in a smooth, level, or gently undulating valley, covered in general with a dense growth of greasewood and sage brush, with dense clumps or stretches of mesquite.

There is no timber or water on or near the lines. The soil is a good sandy loam, fertile in places, and would produce well if irrigated.

This valley extends from 10 to 15 miles to the south of T. 6 S., R. 4 E., and T. 7 S., R. 4 E. should be subdivided.

July 2, 1913.

J.B.W.

## Latitudes, departures, and closing errors.

Line designated	True bearing	Dist.	Latitudes		Departures	
			N.	S.	E.	W.
		Chs.	Chs.	Chs.	Chs.	Chs.
South Boundary	West	478.14				478.14
West Boundary	North	493.72	493.72			
North Boundary (1st St. Par. S.)	N. 89°46'E.	3.84	.02		3.84	
	N. 89°45'E.	40.00	.17		40.00	
	S 89°32'E.	120.18		.98	120.18	
	S. 89°56'E.	80.08		.09	80.08	
	S. 89°24'E.	39.87		.42	39.87	
	S. 87°28'E.	39.64		1.75	39.60	
	East	74.36			74.36	
	South	6.35		6.35		
East Boundary	N. 89°25'E.	80.04	.81		80.04	
	S. 0°53'W.	82.79		82.78		1.28
	S. 0°25'W.	80.43		80.43		.58
	S. 1°03'E.	40.24		40.23	.73	
	S. 1°26'E.	40.61		40.60	1.01	
	S. 0°10'W.	40.00		40.00		.12
	S. 0°17'W.	39.90		39.90		.20
	S. 0°09'W.	40.16		40.16		.10
	S. 0°21'W.	39.98		39.98		.24
	S. 0°01'E.	40.04		40.04	.01	
S. 0°03'E.	40.24		40.24	.04		
Convergency					.47	
Totals			494.72	493.95	480.23	480.66
			<u>493.95</u>			<u>480.23</u>
Error in lat.			0.77	Error in dep.	0.43	

J. B. W. & W. H. E.

July 2, 1913.

South Boundary of T. 6 S., R. 3 E.

Chains.

June 29, 1913. J.B.W.  
At 7h 30m a.m., l.m.t., at the cor. of Tps. 6 & 7 S.,  
Rs. 3 & 4 E., recently established by me, and  
hereinbefore described,

I set off 23°16' N. on the decl. arc, and 32°51' N. on  
the lat. arc, and determine a meridian with the solar.  
Thence I run, as per instructions.

West, on S. bdy. of T. 6 S., R. 3 E., bet. secs. 1 & 36.  
Var. 13°45' E.

Over gently undulating land, through dense greasewood,  
mesquite, catclaw, cacti, and sage brush.

40.00 Set an iron post 3 ft. long, 1 in. in diam. 26 ins. in  
the ground for ¼ sec. cor., marked on brass cap, 1913 in  
S. rim, ¼ S 36 in N., and

S 1 in S. half; from which,  
A catclaw tree 4 ins. diam. brs. N. 25° E. 29 lks. dist.,  
marked ¼ S 36 B T.

A catclaw tree 8 ins. diam. brs. S. 21° W. 96 lks. dist.,  
marked ¼ S 1 B T.

47.70 Wash, 15 lks. wide, course NNE., many large paloverde  
trees along course of same.

80.00 Set an iron post 3 ft. long, 3 ins. in diam. 24 ins. in  
the ground for cor. of secs. 1, 2, 35 & 36, marked on  
brass cap, T 6 S in N.,

T 7 S in S., and  
R 3 E, in W. half, 1913 in S. rim,  
S 35 in NW.,  
S 36 in NE.,  
S 1 in SE., and  
S 2 in SW. quad.;

dig pits 18x18x12 ins. in each sec. 5½ ft. dist., and  
raise a mound of earth 4 ft. base, 2 ft. high W. of cor.  
No trees in limits suitable for bearing trees.

Land, gently rolling.  
Soil, 3rd rate, sandy, loose, gravelly, dry.  
Mesquite, paloverde, greasewood, catclaw, cacti, sparse  
grass.

West, bet. secs. 2 & 35.  
Over gently rolling valley, through dense greasewood,  
paloverde and cacti.

3.85 Wash, 10 lks. wide, course NNE.

17.00 Wash, 12 lks. wide, course NNE.

40.00 Set an iron post 3 ft. long, 1 in. in diam. 26 ins. in  
the ground for ¼ sec. cor., marked on brass cap, 1913 in  
S. rim, ¼ S 35 in N., and

S 2 in S. half; No bearings available,  
dig pits 18x18x12 ins. E. & W. of cor. 3 ft. dist., and  
raise a mound of earth 3½ ft. base, 1½ ft. high N. of cor.

71.06 Wash, 15 lks. wide, course NNE.

72.60 Wash, 20 lks. wide, course NNE.

80.00 Set an iron post 3 ft. long, 3 ins. in diam. 24 ins. in  
the ground for cor. of secs. 2, 3, 34 & 35, marked on  
brass cap, T 6 S in N.,

T 7 S in S., and  
R 3 E in W. half, 1913 in S. rim,  
S 34 in NW.,  
S 35 in NE.,  
S 2 in SE., and  
S 3 in SW. quad.; No bearings available,

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

Land, rolling.  
Soil, 3rd rate, gravelly, sandy, dry, loose.  
Greasewood, paloverde, cacti, sparse grass.

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South Boundary of T. 6 S., R. 3 E.

Chains.	West, bet. secs. 3 & 34. Over rolling land, drains to N. Through dense greasewood, paloverde, cacti.
27.70	Wash, 15 lks. wide, course NNE.
40.00	Set an iron post 3 ft. long, 1 in. in diam. 26 ins. in the ground for $\frac{1}{4}$ sec. cor., marked on brass cap, $\frac{1}{4}$ S 34 in N., and S 3 in S. half; 1913 in S. rim, raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high N. of cor. Pits impracticable, no bearings available.
44.95	Wash, 15 lks. wide, course NNE.
53.15	Wash, 20 lks. wide, course NE.
79.65	As corner point will fall in wash, at Set an iron post 3 ft. long, 3 ins. in diam. 24 ins. in the ground for witness cor. to cor. of secs. 3, 4, 33 & 34, marked on brass cap, W C, W. of centre, T 6 S in N., T 7 S in S., and R 3 E in W. half, 1913 in S. rim, S 33 in NW., S 34 in NE., S 3 in SE., and S 4 in SW. quad.; from which, A paloverde tree 14 ins. diam. brs. N. 88° E. 128 lks. dist., marked T 6 S R 3 E S 34 W C B T. A paloverde tree 8 ins. diam. brs. S. 66° E. 87 lks. dist., marked T 7 S R 3 E S 3 W C B T. A paloverde tree 14 ins. diam. brs. S. 65 $\frac{1}{2}$ ° W. 42 lks. dist., marked T 7 S R 3 E S 4 W C B T. A paloverde tree 16 ins. diam. brs. N. 75° W. 18 lks. dist., marked T 6 S R 3 E S 33 W C B T.
80.00	To cor. point of secs. 3, 4, 33 & 34, in wash, 30 lks. wide, course NE. Land, rolling. Soil, 3rd rate, gravelly, sandy, loose, dry. Greasewood, mesquite, paloverde, cacti, sparse grass. At this cor., at noon, I set off 23° 15' N. on the decl. arc, and observe the sun on the meridian. The resulting lat. is 32° 51 $\frac{1}{2}$ ' N.
40.00	West, bet. secs. 4 & 33, from cor. point in wash. Over rolling land, through greasewood and paloverde. Set an iron post 3 ft. long, 1 in. in diam. 26 ins. in the ground for $\frac{1}{4}$ sec. cor., marked on brass cap, 1913 in S. rim, $\frac{1}{4}$ S 33 in N., and S 4 in S. half; from which, A paloverde tree 14 ins. diam. brs. N. 75° E. 58 lks. dist., marked $\frac{1}{4}$ S 33 B T. No other trees in limits. Dig pits 18x18x12 ins. E. & W. of cor. 3 ft. dist., and raise a mound of earth $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high N. of cor.
62.00	Wash, 15 lks. wide, course NE.
80.00	Set an iron post 3 ft. long, 3 ins. in diam. 24 ins. in the ground for cor. of secs. 4, 5, 32 & 33, marked on brass cap, T 6 S in N., T 7 S in S., and R 3 E in W. half, 1913 in S. rim, S 32 in NW., S 33 in NE., S 4 in SE., and S 5 in SW. quad.; from which, An ironwood tree 9 ins. diam. brs. N. 34° E. 84 lks. dist., marked T 6 S R 3 E S 33 B T. A paloverde tree 5 ins. diam. brs. N. 74° W. 82 lks. dist., marked T 6 S R 3 E S 32 B T. No other trees available. Pits impracticable. Raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high W. of cor. Land, rolling. Soil, 3rd rate, gravelly, dry, loose. Paloverde, greasewood, cacti, sparse grass.

South Boundary of T. 6 S., R. 3 E.

Chains.

West, bet. secs. 5 & 32.

Over rolling land, through greasewood and paloverde.

14.90 Wash, 15 lks. wide, course NNE.

21.00 Wash, 130 lks. wide, course NE.

40.00 Set an iron post 3 ft. long, 1 in. in diam. 26 ins. in the ground for 1/4 sec. cor., marked on brass cap, 1913 in S. rim, 1/4 S 32 in N., and S 5 in S. half; from which, A paloverde tree 10 ins. diam. brs. N. 70° W. 28 lks. dist., marked 1/4 S 32 B T. A paloverde tree 5 ins. diam. brs. S. 22° W. 33 lks. dist., marked 1/4 S 5 B T.

51.20 Wash, 20 lks. wide, course NE.

80.00 Set an iron post 3 ft. long, 3 ins. in diam. 24 ins. in the ground for cor. of secs. 5, 6, 31 & 32, marked on brass cap, T 6 S in N., T 7 S in S., and R 3 E in W. half, 1913 in S. rim, S 31 in NW., S 32 in NE., S 5 in SE., and S 6 in SW. quad.;

raise a mound of stone 2 ft. base, 1 1/2 ft. high W. of cor. No bearings available. Pits, impracticable.

Land, rolling.

Soil, 3rd rate, gravelly, loose, dry.

Paloverde, ironwood, greasewood, cacti, sparse grass.

West, bet. secs. 6 & 31.

Over rolling land, through greasewood, ironwood, and paloverde, few giant cacti.

5.50 Wash, 30 lks. wide, course NE.

13.35 Wash, 30 lks. wide, course NE.

23.95 Wash, 15 lks. wide, course NE.

37.20 Wash, 25 lks. wide, course NE.

40.00 Set an iron post 3 ft. long, 1 in. in diam. 26 ins. in the ground for 1/4 sec. cor., marked on brass cap, 1913 in S. rim, 1/4 S 31 in N., and S 6 in S. half;

dig pits 18x18x12 ins. E. & W. of cor. 3 ft. dist., and raise a mound of earth 3 1/2 ft. base, 1 1/2 ft. high N. of cor. No trees in limits of sufficient size.

52.95 Wash, 80 lks. wide, course NE.

Allowing 186 lks. for convergency, as per instructions, at

78.14 Set an iron post 3 ft. long, 3 ins. in diam. 24 ins. in the ground for cor. of Tps. 6 & 7 S., Rs. 2 & 3 E., marked on brass cap, 1913 in S. rim, T 6 S in N., T 7 S in S., R 3 E in E., and R 2 E in W. half, S 36 in NW., S 31 in NE., S 6 in SE., and S 1 in SW. quad.;

No suitable trees in limits, pits impracticable.

raise a mound of stone 2 ft. base, 1 1/2 ft. high S. of cor.

Picacho Peak brs. S. 69° 40' E., about 40 miles dist.

Highest peak of Estrella Mts. brs. N. 15° 54' W., about 15 miles.

S. edge of SW. rim of mesa mountain brs. S. 18° 37' W., about 8 miles dist.

A round butte to NW. of mesa mountain brs. S. 56° W., about 10 miles dist.

A lone granite hill brs. N. 26° 25' E., about 1 1/4 miles dist.

Magnetic variation at this cor. is 14° 15' E.

Land, rolling.

Soil, 3rd rate, gravelly, dry, loose.

Paloverde, greasewood, cacti, sparse grass.

June 29, 1913.

J.B.W.





- Chains.
- North, bet. secs. 19 & 24.  
Over gently rolling valley.
- 40.00 Set an iron post 3 ft. long, 1 in. in diam. 26 ins. in the ground for  $\frac{1}{4}$  sec. cor., marked on brass cap, 1913 in S. rim,  $\frac{1}{4}$  S 24 in W., and  
S 19 in E. half; from which,  
An ironwood tree 20 ins. diam. brs. S. 62° E. 141 lks. dist., marked  $\frac{1}{4}$  S 19 B T.  
A paloverde tree 12 ins. diam. brs. N. 69° W. 293 lks. dist., marked  $\frac{1}{4}$  S 24 B T.
- 80.00 Set an iron post 3 ft. long, 3 ins. in diam. 24 ins. in the ground for cor. of secs. 13, 18, 19 & 24, marked on brass cap, T 6 S in N. half, 1913 in S. rim,  
R 2 E S 13 in NW.,  
R 3 E S 18 in NE.,  
S 19 in SE., and  
S 24 in SW. quad.; from which,  
A paloverde tree 18 ins. diam. brs. S. 63° W. 92 lks. dist., marked T 6 S R 2 E S 24 B T.  
A paloverde tree 14 ins. diam. brs. N. 34° W. 116 lks. dist., marked T 6 S R 2 E S 13 B T.  
No other trees in limits.  
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 W. of cor.  
Land, gently rolling. Soil, 3rd rate, gravelly, loose. Paloverde, ironwood, mesquite, greasewood, sparse grass. At this cor., at noon, I set off 23° 08' N. on the decl. arc, and observe the sun on the meridian. The resulting lat. is 32° 54' N.
- 
- North, bet. secs. 13 & 18.  
Over gently undulating valley.
- 40.00 Set an iron post 3 ft. long, 1 in. in diam. 26 ins. in the ground for  $\frac{1}{4}$  sec. cor., marked on brass cap, 1913 in S. rim,  $\frac{1}{4}$  S 13 in W., and  
S 18 in E. half; from which,  
A paloverde tree 8 ins. diam. brs. N. 8 $\frac{1}{2}$ ° E. 320 lks. dist., marked  $\frac{1}{4}$  S 18 B T.  
An ironwood tree 8 ins. diam. brs. S. 57° W. 76 lks. dist., marked  $\frac{1}{4}$  S 13 B T.
- 80.00 Set an iron post 3 ft. long, 3 ins. in diam. 24 ins. in the ground for cor. of secs. 7, 12, 13 & 18, marked on brass cap, T 6 S in N. half, 1913 in S. rim,  
R 2 E S 12 in NW.,  
R 3 E S 7 in NE.,  
S 18 in SE., and  
S 13 in SW. quad.; from which,  
A paloverde tree 14 ins. diam. brs. N. 14° W. 210 lks. dist., marked T 6 S R 2 E S 12 B T.  
A mesquite tree 12 ins. diam. brs. S. 80° W. 161 lks. dist., marked T 6 S R 2 E S 13 B T.  
No other bearings available.  
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 W. of cor.  
Land, gently rolling.  
Soil, 3rd rate, gravelly, sandy, loose, dry.  
Paloverde, mesquite, greasewood, sage brush, cacti.
- 
- North, bet. secs. 7 & 12.  
Over rolling, or nearly level land.
- 40.00 Set an iron post 3 ft. long, 1 in. in diam. 26 ins. in the ground for  $\frac{1}{4}$  sec. cor., marked on brass cap, 1913 in S. rim,  $\frac{1}{4}$  S 12 in W., and  
S 7 in E. half; No bearings available,  
dig pits 18x18x12 ins. N. & S. of cor. 3 ft. dist., and raise a mound of earth 3 $\frac{1}{2}$  ft. base, 1 $\frac{1}{2}$  ft. high W. of cor.
- 44.95 Dim road, brs. NE. & SW.

Chains.

80.00 Set an iron post 3 ft. long, 3 ins. in diam. 24 ins. in the ground for cor. of secs. 1,6,7 & 12, marked on brass cap, T 6 S in N. half, 1913 in S.rim,  
 R 2 E S 1 in NW.,  
 R 3 E S 6 in NE.,  
 S 7 in SE., and  
 S 12 in SW. quad.; from which,  
 A catclaw tree 8 ins.diam.brs. S.16°W. 146 lks. dist., marked T 6 S R 2 E S 12 B T.  
 A mesquite tree 12 ins.diam.brs. N.17°E.188 lks.dist., marked T 6 S R 3 E S 6 B T.  
 No other trees available.  
 dig pits 18x18x12 ins. in each sec. 5½ ft.dist., and raise a mound of earth 4 ft.base, 2 ft.high W.of cor.  
 Land, gently rolling, level.  
 Soil, 2nd rate, sandy, loose, dry.  
 Mesquite, catclaw, greasewood, cacti, sparse grass.

25.56 North, bet. secs. 1 & 6.  
 Over nearly level valley land, drains to NNE.  
 Dim road, brs. WNW. & ESE.  
 40.00 Set an iron post 3 ft. long, 1 in. in diam. 26 ins. in the ground for ¼ sec. cor., marked on brass cap, 1913 in S.rim, ¼ S 1 in W., and  
 S 6 in E. half; No trees available,  
 dig pits 18x18x12 ins. N. & S. of cor. 3 ft. dist., and raise a mound of earth 3½ ft.base, 1½ ft.high W.of cor.  
 Thence over smooth land, scant brush.

92.35 Intersect First Standard Parallel South, whence Std. cor. of secs. 31 & 32, T. 5 S., R. 3 E., brs. E. East 0° E., 1.82 chs. dist., as recently re-established by W. H. Elliott, and by him described in Book "B".  
 Set an iron post 3 ft. long, 3 ins. in diam. 24 ins. in the ground for closing cor. of Tps. 6 S., Rs. 2 & 3 E., marked on brass cap, 1913 in S.rim,  
 C C, S. of centre,  
 T 5 S , R 3 E, S 31, S 32, in N., and  
 T 6 S in S. half,  
 R 3 E S 6, in SE., and  
 R 2 E S 1, in SW. quad.; No bearings avail.,  
 dig pits 30x24&12 ins. crosswise on each line, E. & W. 4 ft., and S. of cor. 8 ft. dist., and  
 raise a mound of earth 5 ft.base, 2½ ft.high S.of cor.  
 Land, level, gently undulating. Soil, 2nd rate, sandy.  
 Scattering greasewood, sage brush.

July 1, 1913  
 J.B.W.

General Description.  
 The south and West Boundaries of T. 6 S., R. 3 E. run over smooth, level or gently undulating land, draining to the North. There is no water along or near the lines. The land to the south and west lie also in a smooth valley, and should be subdivided.

J.B.W.

Boundaries of T. 6 S., R. 3 E.  
 Latitudes, departures, and closing errors.

Line Designated.	True bearing.	Dist. Chs.	Latitudes.		Departures.	
			N. Chs.	S. Chs.	E. Chs.	W. Chs.
South Boundary,	West, ----	478.14	-----	-----	-----	478.14
West Boundary,	North, ----	492.35	492.35	-----	-----	-----
North Boundary (1st Std.Par.S.)	N. 89° 58' E.	61.82	-----	-----	61.82	-----
	N. 89° 58' E.	80.02	-----	-----	80.02	-----
	N. 89° 50' E.	240.15	-----	-----	240.15	-----
	N. 89° 51' E.	120.00	-----	-----	120.00	-----
East Boundary,	South, ---	493.72	-----	493.72	-----	-----
Convergency, ----	-----	-----	-----	-----	-----	-----
Totals,			493.56	493.72	478.62	478.14
			-----	493.56	478.14	-----
Error in lat., ----			-----0.16.			
Error in dep., ----			-----0.48			

Chains.

July 24, 1913. J.B.W.  
 At 1h p.m., l.m.t., at the Std. cor. of Tps. 10 S.,  
 Rs. 12 & 13 E., reestablished by means described in Book "B"  
 I sight back to a flag which I left at the Std. cor.  
 of secs. 31 & 32, T. 10 S., R. 13 E., and from this  
 line deflect an angle of  $89^{\circ}39\frac{1}{2}'$  to the North, selecting  
 a definite foresight on the ridge to the north.  
 Then I set off  $19^{\circ}53'$  N. on the decl. arc, and  $32^{\circ}30\frac{1}{2}'$  N.  
 on the lat. arc, and determine a meridian with the  
 solar, which meridian falls 1' to the west of my  
 deflected meridian. I adopt the mean line between the  
 two as my true meridian and run by back and fore  
 sights till 2h 30m p.m.,

- North, bet. secs. 31 & 36.  
 Over mts. land, asc. steep, over granite ledges,  
 through scattering brush.
- 17.90 Spur, brs. SE. & NW., desc. steep.
- 36.00 Gulch, 30 lks. wide, course SSE., asc. steep.
- 40.00 Set an iron post 3 ft. long, 1 in. in diam. 26 ins. in  
 the ground for  $\frac{1}{4}$  sec. cor., marked on brass cap, 1913 on  
 S. rim;  $\frac{1}{4}$  S 36 in W., and S 31 in E. half; Pits impracticable,  
 no bearings available.  
 raise a mound of stone 2 ft. base,  $1\frac{1}{2}$  ft. high W. of cor.
- 45.50 Spur, brs. W. & E., desc.
- 50.00 Gulch, 10 lks. wide, course SW., asc. steep.
- 55.00 Ridge, brs. SW. & NE., desc. steep, brushy N. slope.
- 74.00 Gulch, 50 lks. wide, course W., asc. steep.
- 80.00 Set an iron post 3 ft. long, 3 ins. in diam. 24 ins. in  
 the ground for cor. of secs. 25, 30, 31 & 36, marked on  
 brass cap, T 10 S, in N. half, 1913 on S. rim,  
 R 12 E S 25 in NW.,  
 R 13 E S 30 in NE.,  
 S 31 in SE., and S 36 in SW. quad.; Pits impracticable  
 No bearings available  
 raise a mound of stone 2 ft. base,  $1\frac{1}{2}$  ft. high W. of cor.

Land, mts., rough, broken.  
 Soil, 3rd rate, stony, gravelly, dry.  
 Scrub oak, buck brush, cacti, sparse grass.

North, bet. secs. 25 & 30.  
 Over mts. land, asc. steep S. slope, over granite  
 ledges, dense brush.

- 15.00 Ridge, brs. E. & W., desc.
- 21.00 Gulch, 50 lks. wide, course W., asc. steep.
- 40.00 Set an iron post 3 ft. long, 1 in. in diam. 26 ins. in  
 the ground for  $\frac{1}{4}$  sec. cor., marked on brass cap, 1913 on  
 S. rim;  $\frac{1}{4}$  S 25 in W., and S 30 in E. half; No bearings available  
 Pits impracticable  
 raise a mound of stone 2 ft. base,  $1\frac{1}{2}$  ft. high W. of cor.
- 47.00 Spur, brs. W. & E., desc.
- 74.00 Gulch, 60 lks. wide, course W., asc.
- 80.00 Set an iron post 3 ft. long, 3 ins. in diam. 24 ins. in  
 the ground for cor. of secs. 19, 24, 25 & 30, marked on  
 brass cap, T 10 S, in N. half, 1913 on S. rim,  
 R 12 E S 24 in NW.,  
 R 13 E S 19 in NE.,  
 S 30 in SE., and S 25 in SW. quad.;  
 No trees available, pits impracticable.  
 Raise a mound of stone 2 ft. base,  $1\frac{1}{2}$  ft. high W. of cor.

Land, mts., broken.  
 Soil, 3rd rate, stony, gravelly, dry.  
 Scrub oak, cacti, few cedars and catclaw, fair grass.  
 July 24, 1913.

Chains.

- July 25, 1913. J.B.W.  
 At 8h a.m., l.m.t., at the cor. of secs. 19, 24, 25 & 30,  
 as above described,  
 I set off  $19^{\circ}43\frac{1}{2}'$  N. on the decl. arc, and  $32^{\circ}32'$  N. on  
 the lat. arc, and determine a meridian with the solar.  
 Thence I run,  
 North, bet. secs. 19 & 24.  
 Over mts. land, asc. through scattering brush.  
 21.00 Ridge, brs. W. & E., desc. grad.  
 40.00 Set an iron post 3 ft. long, 1 in. in diam. 26 ins. in  
 the ground for  $\frac{1}{4}$  sec. cor., marked on brass cap, 1913 on  
 S. rim,  $\frac{1}{4}$  S 24 in W., and No bearings available  
 S 19 in E. half; Pits impracticable  
 raise a mound of stone 2 ft. base,  $1\frac{1}{2}$  ft. high W. of cor.  
 42.00 Gulch, 30 lks. wide, course W., asc.  
 47.00 Ridge, brs. W. & E., desc.  
 50.50 Dim road, brs. E. & W.  
 54.00 Gulch, 30 lks. wide, course W., asc.  
 58.00 Spur, brs. W. & E., desc.  
 61.00 Gulch, 50 lks. wide, course SW., asc. steep.  
 80.00 Set an iron post 3 ft. long, 3 ins. in diam. 24 ins. in  
 the ground for cor. of secs. 13, 18, 19 & 24, marked on  
 brass cap, T 10 S, in N. half, 1913 on S. rim,  
 R 12 E S 13 in NW.,  
 R 13 E S 18 in NE.,  
 S 19 in SE., and Pits impracticable,  
 S 24 in SW. quad.; no bearings available,  
 raise a mound of stone 2 ft. base,  $1\frac{1}{2}$  ft. high W. of cor.  
 Land, mts., broken.  
 Soil, 3rd rate, stony, gravelly, dry.  
 Scrub oak, cacti, catclaw, sparse grass.
- 
- North, bet. secs. 13 & 18.  
 Over mts. land, asc. through scattering brush.  
 2.00 Ridge, brs. W. & E., desc.  
 17.00 Wash, 30 lks. wide, course WSW.  
 40.00 Set an iron post 3 ft. long, 1 in. in diam. 26 ins. in  
 the ground for  $\frac{1}{4}$  sec. cor., marked on brass cap, 1913 on  
 S. rim;  $\frac{1}{4}$  S 13 in W., and No bearings available  
 S 18 in E. half; Pits impracticable  
 raise a mound of stone 2 ft. base,  $1\frac{1}{2}$  ft. high W. of cor.  
 46.00 Ridge, brs. W. & E., desc.  
 73.00 Gulch, 30 lks. wide, course NE., near head, asc.  
 80.00 Set an iron post 3 ft. long, 3 ins. in diam. 24 ins. in  
 the ground for cor. of secs. 7, 12, 13 & 18, marked on  
 brass cap, T 10 S, in N. half, 1913 on S. rim,  
 R 12 E S 12 in NW.,  
 R 13 E S 7 in NE.,  
 S 18 in SE., and No bearings available  
 S 13 in SW. quad.; Pits impracticable  
 raise a mound of stone 2 ft. base,  $1\frac{1}{2}$  ft. high W. of cor.  
 Land, mts., broken.  
 Soil, 3rd rate, stony, gravelly, dry.  
 Buck brush, cacti, fair grass.  
 At this cor., at noon, I set off  $19^{\circ}41'$  N. on the decl.  
 arc, and observe the sun on the meridian.  
 The resulting lat. is  $32^{\circ}34'$  N.

Chains.

North, bet. secs. 7 & 12.  
 Over mts. land, asc., through scattering brush.  
 1.50 Spur, brs. E. & W., desc. steep.  
 28.50 Wash, 2 chs. wide, course WNW., asc. grad. over broken  
 ground, through dense brush.  
 38.90 Wash, 30 lks. wide, course SW.  
 Asc. over broken ridges from main divide on E.  
 40.00 Set an iron post 3 ft. long, 1 in. in diam. 26 ins. in  
 the ground for  $\frac{1}{4}$  sec. cor., marked on brass cap, 1913 on  
 S. rim,  $\frac{1}{4}$  S 12 in W., and S 7 in E. half; No bearings available  
 Pits impracticable  
 raise a mound of stone 2 ft. base,  $1\frac{1}{2}$  ft. high W. of cor.  
 65.00 Asc. steep SW. slope.  
 80.00 Set an iron post 3 ft. long, 3 ins. in diam. 24 ins. in  
 the ground for cor. of secs. 1, 6, 7 & 12, marked on  
 brass cap, T 10 S, in N. half, 1913 on S. rim,  
 R 12 E S 1 in NW.,  
 R 13 E S 6 in NE.,  
 S 7 in SE., and S 12 in SW. quad.; No bearings available  
 Pits impracticable  
 raise a mound of stone 2 ft. base,  $1\frac{1}{2}$  ft. high W. of cor.  
 Land, mts., broken.  
 Soil, 3rd rate, stony, gravelly, dry.  
 Mesquite, catclaw, cacti, fair grass.

North, bet. secs. 1 & 6.  
 Over mts. land, asc. through dense brush.  
 2.00 Top of high rocky ridge, main NW. spur of Tortillita Mts.,  
 brs. WNW. & ESE., low saddle 6 chs. WNW., desc. steep.  
 24.00 Gulch, 40 lks. wide, course WNW., foot of main slope,  
 brs. NW. & SE., desc. grad.  
 40.00 Set an iron post 3 ft. long, 1 in. in diam. 26 ins. in  
 the ground for  $\frac{1}{4}$  sec. cor., marked on brass cap, 1913 on  
 S. rim,  $\frac{1}{4}$  S 1 in W., and S 6 in E. half; No bearings available  
 Pits impracticable  
 raise a mound of stone 2 ft. base,  $1\frac{1}{2}$  ft. high W. of cor.  
 55.00 Wash, 2 chs. wide, course WNW.  
 68.00 Stone house brs. East, 5 chs. dist., belongs to Cashier  
 mine.  
 77.00 Old road, brs. E. & W.  
 80.00 Set an iron post 3 ft. long, 3 ins. in diam. 24 ins. in  
 the ground for cor. of Tps. 9 & 10 S., Rs. 12 & 13 E.,  
 marked on brass cap, 1913 on S. rim,  
 T 9 S, in N., and  
 T 10 S, in S. half,  
 R 12 E S 36 in NW.,  
 R 13 E S 31 in NE.,  
 S 6 in SE., and  
 S 1 in SW. quad.; no trees available,  
 dig pits 24x24x12 ins. on each line, N., E., and W.,  
 4 ft., and S. of cor. 8 ft. dist., and  
 raise a mound of earth 5 ft. base,  $2\frac{1}{2}$  ft. high S. of cor.,  
 from which,  
 Old boiler of Jesse Benton mine brs. S.  $79^{\circ}06'$  W.,  
 about 35 chs. dist.  
 Picacho peak, brs. N.  $82^{\circ}51'$  W.  
 Silver Bell peak brs. S.  $64^{\circ}58'$  W.  
 E. peak of Black Mts. brs. N.  $37^{\circ}$  E.  
 Highest peak of Black Mts. brs. N.  $22^{\circ}15'$  E.  
 Desert peak brs. N.  $66^{\circ}30'$  W.  
 (Cor. No. 3 of Cashier No. 1, and  
 Cor. No. 4 of Cashier No. 2, of U. S. Mineral Survey  
 No. 3081 brs. S.  $71^{\circ}43'$  W., 17.42 chs. dist., which is  
 an iron post with square brass cap, properly marked.  
 Land, mts., broken.  
 Soil, 3rd rate, stony, gravelly, loose, dry.  
 Mesquite, catclaw, paloverde, buck brush, cacti, fair  
 grass.  
 July 25, 1913. J. B. W.

Chains.	
	<p style="text-align: right;">J.B.W.</p> <p>July 26, 1913.</p> <p>At 7h a.m., l.m.t., at the cor. of Tps. 9 &amp; 10 S., R. 13 E.,  <del>recently reestablished</del> by W. H. Elliott, and described  in book "A",</p> <p>I set off <math>19^{\circ}31\frac{1}{2}'</math> N. on the decl. arc, and <math>32^{\circ}35\frac{1}{2}'</math> N. on  the lat. arc and determine a meridian with the solar.  Thence I run,</p> <p>West, on a random line, setting temp. corners at  intervals of 40 chs. <del>30 chs.</del></p> <p>At 5 miles, 78.93 chs., I fall 16 lks. N. of the cor. of  Tps. 9 &amp; 10 S., Rs. 12 &amp; 13 E., as recently established  by me, <del>and herebefore</del> described, whence I run,  N. <math>89^{\circ}59'</math> E., on a true line, on N. bdy. of Tp.,  bet. secs. 6 &amp; 31.  Var. <math>13^{\circ}45'</math> E.</p> <p>Over rolling, broken land, through scattering greasew  wood, catclaw, paloverde, and mesquite.</p>
38.93	<p>Set an iron post 3 ft. long, 1 in. in diam. 26 ins. in  the ground for <math>\frac{1}{4}</math> sec. cor., marked on brass cap, 1913 in  S. rim, <math>\frac{1}{4}</math> S 31 in N., and  S 6 in S. half; <del>No</del> bearings, available  dig pits 18x18x12 ins. E. &amp; W. of cor. 3 ft. dist., and  raise a mound of earth <math>3\frac{1}{2}</math> ft. base, <math>1\frac{1}{2}</math> ft. high N. of cor.</p>
44.00	Wash, 1 ch. wide, course NW.
57.00	Wash, 1 ch. wide, course NW.
78.93	<p>Set an iron post 3 ft. long, 3 ins. in diam. 24 ins. in  the ground for cor. of secs. 5, 6, 31 &amp; 32, marked on  brass cap, T 9 S, in N.,  T 10 S, in S., and  R 13 E, in W. half, 1913 on S. rim,  S 31 in NW.,  S 32 in NE.,  S 5 in SE., and <del>-----</del> Pits impracticable.  S 6 in SW. quad.; no bearings available,  raise a mound of stone 2 ft. base, <math>1\frac{1}{2}</math> ft. high W. of cor.</p> <p>Land, rolling.  Soil, 3rd rate, gravelly, stony, dry.  Catclaw, mesquite, paloverde, greasewood, sage brush,  cacti, sparse grass.</p>
	<p>N. <math>89^{\circ}59'</math> E., bet. secs. 5 &amp; 32.  Over broken, heavily rolling land, through  scattering brush.</p>
5.00	Asc. along N. side of hill.
40.00	<p>Set an iron post 3 ft. long, 1 in. in diam. 26 ins. in  the ground for <math>\frac{1}{4}</math> sec. cor., marked on brass cap, 1913  in S. rim, <math>\frac{1}{4}</math> S 32 in N., and S 5 in S. half;  No bearings available; pits impracticable,  raise a mound of stone 2 ft. base, <math>1\frac{1}{2}</math> ft. high N. of cor.</p>
45.00	Asc. prec.
50.00	Ridge, brs. NNW. & SSE., desc.
56.00	Gulch, 20 lks. wide, course NW., asc.
60.00	Ridge, brs. NW. & SE., desc.
76.00	Wash, 10 lks. wide, course N., asc.
80.00	<p>Set an iron post 3 ft. long, 3 ins. in diam. 24 ins. in  the ground for cor. of secs. 4, 5, 32 &amp; 33, marked on  brass cap, T 9 S in N.,  T 10 S in S., and  R 13 E, in W. half, 1913 on S. rim,  S 32 in NW.,  S 33 in NE.,  S 4 in SE., and <del>-----</del> No bearings available  S 5 in SW. quad.; <del>-----</del> Pits impracticable.  raise a mound of stone 2 ft. base, <math>1\frac{1}{2}</math> ft. high W. of cor.</p> <p>Land, rolling, broken, mts.  Soil, 3rd rate, gravelly, dry, stony.  Catclaw, cacti, mesquite, paloverde, sparse grass.  At this cor., at noon, I set off <math>19^{\circ}28'</math> N. on the decl.  arc, and observe the sun on the meridian.  The resulting lat. is <math>32^{\circ}36'</math> N.</p>

## Chains.

- N. 89°59' E., bet. secs. 4 & 33.  
Over heavily rolling land, asc. through scattering brush.
- 5.00 Gulch, 10 lks. wide, course NE.
- 40.00 Set an iron post 3 ft. long, 1 in. in diam. 26 ins. in the ground for  $\frac{1}{4}$  sec. cor., marked on brass cap, 1913 in S. rim,  $\frac{1}{4}$  S 33 in N., and S 4 in S. half;  
No bearings available, pits impracticable.  
raise a mound of stone 2 ft. base,  $1\frac{1}{2}$  ft. high N. of cor.  
Thence over heavily rolling land, desc. grad.
- 44.00 Gulch, 10 lks. wide, course N.
- 59.00 Gulch, 20 lks. wide, course SE.
- 75.00 Draw, 2 chs. wide, course NE.
- 80.00 Set an iron post 3 ft. long, 3 ins. in diam. 24 ins. in the ground for cor. of secs. 3, 4, 33 & 34, marked on brass cap, T 9 S in N.,  
T 10 S in S., and  
R 13 E in W. half, 1913 on S. rim,  
S 33 in NW.,  
S 34 in NE.,  
S 3 in SE., and  
S 4 in SW. quad.; ---No bearings available  
Pits impracticable.  
raise a mound of stone 2 ft. base,  $1\frac{1}{2}$  ft. high W. of cor.  
Land, heavily rolling, broken.  
Soil, 3rd rate, gravelly, stony, dry.  
Catclaw, paloverde, mesquite, cacti, fair grass.
- 
- N. 89°59' E., bet. secs. 3 & 34.  
Over heavily rolling land, desc grad. through scattering brush.
- 13.00 Draw, 150 lks. wide, course SE.
- 38.00 Wash, 10 lks. wide, course NE.
- 40.00 Set an iron post 3 ft. long, 1 in. in diam. 26 ins. in the ground for  $\frac{1}{4}$  sec. cor., marked on brass cap, 1913 in S. rim,  $\frac{1}{4}$  S 34 in N., and  
S 3 in S. half; ---No bearings available,  
dig pits 18x18x12 ins. E. & W. of cor. 3 ft. dist., and  
raise a mound of earth  $3\frac{1}{2}$  ft. base,  $1\frac{1}{2}$  ft. high N. of cor.
- 50.00 Wash, 20 lks. wide, course NNE.
- 55.00 Same wash, course SSE.
- 78.00 Same wash, course ENE.
- 80.00 Set an iron post 3 ft. long, 3 ins. in diam. 24 ins. in the ground for cor. of secs. 2, 3, 34 & 35, marked on brass cap, T 9 S in N.,  
T 10 S in S., and  
R 13 E in W. half, 1913 on S. rim,  
S 34 in NW.,  
S 35 in NE.,  
S 2 in SE., and  
S 3 in SW. quad.; from which,  
A mesquite tree 4 ins. diam. brs. N. 54 $\frac{1}{2}$ ° E. 250 lks. dist.,  
marked T 9 S R 13 E S 35 B T.  
A mesquite tree 10 ins. diam. brs. S. 44 $\frac{1}{2}$ ° E. 268 lks. dist.,  
marked T 10 S R 13 E S 2 B T.  
A mesquite tree 8 ins. diam. brs. S. 53 $\frac{1}{2}$ ° W. 360 lks. dist.,  
marked T 10 S R 13 E S 3 B T.  
A mesquite tree 10 ins. diam. brs. N. 82 $\frac{1}{2}$ ° W. 362 lks. dist.,  
marked T 9 S R 13 E S 34 B T.
- Land, broken, rolling.  
Soil, 3rd rate, gravelly, dry.  
Mesquite, catclaw, cacti, fair grass.

20

## North Boundary of T. 10 S., R. 13 E.

Chains.	N. 89°59' E., bet. secs. 2 & 35. Over heavily rolling land, through scattering brush.
2.50	Main road, State highway, brs. NW. & SE., Phoenix to Tucson.
8.50	Wash, 20 lks. wide, course SE.
40.00	Set an iron post 3 ft. long, 1 in. in diam. 26 ins. in the ground for $\frac{1}{4}$ sec. cor., marked on brass cap, 1913 on S. rim, $\frac{1}{4}$ S 35 in N., and S 2 in S. half; from which, A mesquite tree 10 ins. diam. brs. N. 64 $\frac{1}{2}$ ° W. 169 lks. dist., marked $\frac{1}{4}$ S 35 B T. A mesquite tree 8 ins. diam. brs. S. 64 $\frac{1}{2}$ ° E. 73 lks. dist., marked $\frac{1}{4}$ S 2 B T.
42.00	Wash, 20 lks. wide, course NE.
80.00	Set an iron post 3 ft. long, 3 ins. in diam. 24 ins. in the ground for cor. of secs. 1, 2, 35 & 36, marked on brass cap, T 9 S in N., T 10 S in S., and R 13 E in W. half, 1913 on S. rim, S 35 in NW., S 36 in NE., S 1 in SE., and S 2 in SW. quad.; No bearings available, 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 W. of cor. Land, rolling. Soil, 3rd rate, gravelly, dry, loose. Mesquite, catclaw, cacti, fair grass.
	N. 89°59' E., bet. secs. 1 & 36. Over heavily rolling land, through scattering brush.
10.00	Wash, 10 lks. wide, course SE.
19.50	Wash, 10 lks. wide, course NE.
25.00	Wash, 10 lks. wide, course SE.
40.00	Set an iron post 3 ft. long, 1 in. in diam. 26 ins. in the ground for $\frac{1}{4}$ sec. cor., marked on brass cap, 1913 on S. rim, $\frac{1}{4}$ S 36 in N., and S 1 in S. half; from which, A mesquite tree 8 ins. diam. brs. N. 14 $\frac{1}{2}$ ° W. 38 lks. dist., marked $\frac{1}{4}$ S 36 B T. A mesquite tree 10 ins. diam. brs. S. 41 $\frac{1}{2}$ ° W. 116 lks. dist., marked $\frac{1}{4}$ S 1 B T.
80.00	To cor. of Tps. 9 & 10 S., R. 13 E., as described in Book "A". Land, rolling. Soil, 3rd rate, gravelly, dry. Mesquite, catclaw, cacti, good grass.

J. B. W.

## General Description.

The West and North Boundaries of T. 10 S., R. 13 E. run over land in general broken or mountainous, the drainage of the West Bdy. being to the West, and that of the N. bdy. being in general to the North and NE.

There is no water or timber on or near the lines, nor any indications of a mineral character. To the west of the West bdy. the land slopes or drains to the west, entering a broken valley at about two or three miles. A portion of T. 10 S., R. 12 E. should be subdivided.

\*For traverse of T. 10 S., R. 13 E., see page 30.

July 26, 1913.

J. B. W.



Chains.

Aug. 4, 1913. J.B.W.

At 9h a.m., l.m.t., at the cor. of Tps. 9 & 10 S., R. 14 E., recently re-established by W. H. Elliott, and described in book "A",

I set off 17°18½' N. on the decl. arc, and 32°35½' N. on the lat. arc, and determine a meridian with the solar. Thence I run, Var. 13°50' E.

North, on W. bdy. of sec. 31.

Over heavily rolling land, through scattering brush, asc. grad.

(Since the cor. of Tps. 9 & 10 S., R. 13 E., has been established at 5.64 chs. S.0°4' E. of the above described cor., as I run north on the W. bdy. of T. 9 S., R. 14 E. I establish corners at intervals of 40 chs. referring to secs. in T. 9 S., R. 14 E., and also establish the corners on this line at proper intervals of 80 chs. from the SE. cor. of T. 9 S., R. 13 E., referring to secs. in T. 9 S., R. 13 E.)

40.00

Set an iron post 3 ft. long, 1 in. in diam. 26 ins. in the ground for ¼ sec. cor., marked on brass cap, 1913 on S. rim, ¼ S 31 in E. half; from which, A mesquite 13 ins. diam. brs. S.85°E. 267 lks. dist., marked ¼ S 31 B T.

Dig pits 18x18x12 ins. N. & S. of cor. 3 ft. dist., and raise a mound of earth 3½ ft. base, 1½ ft. high E. of cor.

65.00

Wash, 20 lks. wide, course ESE.

74.36

Set an iron post 3 ft. long, 2 ins. in diam. 24 ins. in the ground for cor. of secs. 25 & 36, R 13 E, marked on brass cap, T 9 S, in N. half, and R 14 E, S 30, S 31, in E. half, S 25 in NW., and R 13 E S 36 in SW. quad.; 1913 on S. rim ;

No trees available.

Dig pits 24x24x12 ins. in each sec. 6 ft. dist., and raise a mound of earth 4 ft. base 2 ft. high W. of cor.

80.00

Set an iron post 3 ft. long, 3 ins. in diam. 24 ins. in the ground for cor. of secs. 30 & 31, R 14 E, marked on brass cap, T 9 S, in N. and S 25, R 13 E S 36 in W. half, 1913 in S. rim, S 30 in NE., and S 31 R 14, E in SE. quad., no bearings available;

Dig pits 24x24x12 ins. in each sec. 6 ft. dist., and raise a mound of earth 4 ft. base 2 ft. high E. of cor.

Land, rolling. Soil, 3rd rate, gravelly, dry. Scattering mesquite, catclaw, cacti, fair grass.

North, on W. bdy. of sec. 30.

Over rolling land, asc. grad., through scattering brush. Wash, 90 lks. wide, course ESE.

10.00

40.00

Set an iron post 3 ft. long, 1 in. in diam. 26 ins. in the ground for ¼ sec. cor., marked on brass cap, 1913 in S. rim, ¼ S 30 in E. half; no bearings available, dig pits 18x18x12 ins. N. & S. of cor. 3 ft. dist., and raise a mound of earth 3½ ft. base, 1½ ft. high E. of cor.

65.00

74.36

Top of rise, brs. NE. & SW., desc. grad.

Set an iron post 3 ft. long, 2 ins. in diam. 24 ins. in the ground for cor. of secs. 24 & 25, R. 13 E., marked on brass cap, T 9 S in N., and S 19, S 30, R 14 E, in E. half, 1913 in S. rim, S 24 in NW., and

S 25 R 13 E in SW. quad., no bearings available; dig pits 24x24x12 ins. in each sec. 6 ft. dist., and raise a mound of earth 4 ft. base 2 ft. high W. of cor.

At this cor., at noon, I set off 17°16' N. on the decl. arc, and observe the sun on the meridian. The resulting lat. is 32°37' N.

Chains.	
80.00	<p>Set an iron post 3 ft. long, 3 ins. in diam. 24 ins. in the ground for cor. of secs. 19 &amp; 30, R. 14 E, marked on brass cap, T 9 S in N., and  S 24, S 25, R 13 E, in W. half, 1913 on S. rim,  S 19 in NE., and  S 30, R 14 E, in SE. quad.; no bearings available  dig pits 24x24x12 ins. in each sec. 6 ft. dist., and  raise a mound of earth 4 ft. base, 2 ft. high E. of cor.  Land, broken, rolling. Soil, 3rd rate, gravelly, dry.  Scattering mesquite, catclaw, cacti.</p>
	<p>North, on W. bdy. of sec. 19.</p>
40.00	<p>Over heavily rolling land, desc. grad., through scattering brush.  Set an iron post 3 ft. long, 1 in. in diam. 26 ins. in the ground for <math>\frac{1}{4}</math> sec. cor., marked on brass cap, 1913 in S. rim, <math>\frac{1}{4}</math> S 19 in E. half; no bearings available  dig pits 18x18x12 ins. N. &amp; S. of cor. 3 ft. dist., and  raise a mound of earth <math>3\frac{1}{2}</math> ft. base, <math>1\frac{1}{2}</math> ft. high E. of cor.</p>
52.50	<p>Wash, 50 lks. wide, course WNW.</p>
74.36	<p>Set an iron post 3 ft. long, 2 ins. in diam. 24 ins. in the ground for cor. of secs. 13 &amp; 24, R 13 E, marked on brass cap, T 9 S in N., and  S 18, S 19, R 14 E, in E. half, 1913 in S. rim,  S 13 in NW., and  S 24, R 13 E, in SW. quad. no bearings available  dig pits 24x24x12 ins. in each sec. 6 ft. dist., and  raise a mound of earth 4 ft. base 2 ft. high W. of cor.</p>
75.00	<p>Wash, 90 lks. wide, course W.</p>
80.00	<p>Set an iron post 3 ft. long, 3 ins. in diam. 24 ins. in the ground for cor. of secs. 18 &amp; 19, R 14 E, marked on brass cap, T 9 S in N., and  S 13, S 24, R 13 E, in W. half,  S 18 in NE., and  S 19, R 14 E, in SE. quad.; 1913 on S. rim ;  No bearings available.  Dig pits 24x24x12 ins. in each sec. 6 ft. dist., and  raise a mound of earth 4 ft. base 2 ft. high E. of cor.  Land, broken, heavily rolling.  Soil, 3rd rate, gravelly, dry.  Mesquite and sage brush, catclaw, cacti, fair grass.</p>
	<p>North, on W. bdy. of sec. 18.</p>
	<p>Over heavily rolling land, through scattering brush.</p>
37.50	<p>Dim road, brs. ESE. &amp; WNW.</p>
40.00	<p>Set an iron post 3 ft. long, 1 in. in diam. 26 ins. in the ground for <math>\frac{1}{4}</math> sec. cor., marked on brass cap, 1913 in S. rim;  <math>\frac{1}{4}</math> S 18 in E. half; no bearings available,  dig pits 18x18x12 ins. N. &amp; S. of cor. 3 ft. dist., and  raise a mound of earth <math>3\frac{1}{2}</math> ft. base, <math>1\frac{1}{2}</math> ft. high E. of cor.</p>
45.30	<p>Wash, 70 lks. wide, course WNW.</p>
63.20	<p>Wash, 30 lks. wide, course SW.</p>
63.75	<p>Telephone line, Tucson to Florence, brs. WNW. &amp; ESE.</p>
74.36	<p>Set an iron post 3 ft. long, 2 ins. in diam. 24 ins. in the ground for cor. of secs. 12 &amp; 13, R 13 E, marked on brass cap, T 9 S in N., and  S 7, S 18, R 14 E, in E. half, 1913 in S. rim,  S 12 in NW., and  S 13, R 13 E, in SW. quad. no bearings available  dig pits 24x24x12 ins. in each sec. 6 ft. dist., and  raise a mound of earth 4 ft. base 2 ft. high W. of cor.</p>
80.00	<p>Set an iron post 3 ft. long, 3 ins. in diam. 24 ins. in the ground for cor. of secs. 7 &amp; 18, R 14 E, marked on brass cap, T 9 S, in N., and  S 12, S 13, R 13 E, in W. half; 1913 on S. rim;  S 7 in NE., &amp; S 18 R 14 E in SE. quad., no bearings available  dig pits 24x24x12 ins. in each sec. 6 ft. dist., and  raise a mound of earth 4 ft. base 2 ft. high E. of cor.  Land, rolling. Soil, 3rd rate, gravelly, dry.  Mesquite, catclaw, greasewood, cacti, fair grass.</p>

Chains.	
	North, on W. bdy. of sec. 7. Over heavily rolling land, through dense cacti, and other brush.
30.00	Wash, 40 lks. wide, course SSW.
40.00	Set an iron post 3 ft. long, 1 in. in diam. 26 ins. in the ground for $\frac{1}{4}$ sec. cor., marked on brass cap, 1913 on S. rim, $\frac{1}{4}$ S 7 in E. half; from which, A mesquite tree 6 ins. diam. brs. N. 5° E. 112 lks. dist., marked $\frac{1}{4}$ S 7 B T. Dig pits 18x18x12 ins. N. & S. of cor. 3 ft. dist., and raise a mound of earth $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high E. of cor.
41.70	Wash, 40 lks. wide, course SW., thence along same.
56.00	Leave wash, course S., from NE.
74.36	Set an iron post 3 ft. long, 2 ins. in diam. 24 ins. in the ground for cor. of secs. 1 & 12, R 13 E, marked on brass cap, T 9 S, in N., and S 6, S 7, R 14 E, in E. half; 1913 on S. rim; S 1 in NW., and S 12, R 13 E, in SW. quad. no bearings available, dig pits 24x24x12 ins. in each sec. 6 ft. dist., and raise a mound of earth 4 ft. base 2 ft. high W. of cor.
80.00	Set an iron post 3 ft. long, 3 ins. in diam. 24 ins. in the ground for cor. of secs. 6 & 7, R 14 E, marked on brass cap, T 9 S, in N., and S 1, S 12, R 13 E, in W. half, S 6 in NE., and S 7, R 14 E, in SE. quad.; 1913 on S. rim; dig pits 24x24x12 ins. in each sec. 6 ft. dist., and raise a mound of earth 4 ft. base 2 ft. high E. of cor. from which, one bearing tree only, A mesquite tree 8 ins. diam. brs. N. 33° E. 172 lks. dist., marked T 9 S R 14 E S 6 B T.
	Land, broken, rolling. Soil, 3rd rate, gravelly, dry. Mesquite, catclaw, cacti, greasewood, fair grass.
	North, on W. bdy. of sec. 6. Over heavily rolling land, through scattering brush.
31.00	Wash, 100 lks. wide, course WSW.
40.00	Set an iron post 3 ft. long, 1 in. in diam. 26 ins. in the ground for $\frac{1}{4}$ sec. cor., marked on brass cap, 1913 on S. rim; $\frac{1}{4}$ S 6 in E. half; from which, A mesquite tree 8 ins. diam. brs. S. 15° E. 177 lks. dist., marked $\frac{1}{4}$ S 6 B T. Dig pits 18x18x12 ins. N. & S. of cor. 3 ft. dist., and raise a mound of earth $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high E. of cor.
50.00	Wash, 20 lks. wide, course WSW.
67.70	Wash, 60 lks. wide, course WSW.
74.36	Set an iron post 3 ft. long, 3 ins. in diam. 24 ins. in the ground for cor. of Tps. 8 & 9 S., R. 13 E., marked on brass cap, 1913 in S. rim, R 13 E in W., and R 14 E, T 8 S, S 31, T 9 S, S 6, in E. half; T 8 S, S 36, in NW., and S 1, T 9 S, in SW. quad.; no bearings available, Dig pits 30x24x12 ins., crosswise on each line, N. & S., 4 ft., and W. of cor. 8 ft. dist., and raise a mound of earth 5 ft. base $2\frac{1}{2}$ ft. high W. of cor.
80.00	Set an iron post 3 ft. long, 3 ins. in diam. 24 ins. in the ground for cor. of Tps. 8 & 9 S., R. 14 E., marked on brass cap, R 14 E, in E., and R 13 E, T 8 S, S 36, S 1, T 9 S, in W. half; T 8 S, S 31 in NE., and S 6, T 9 S, in SE. quad.; 1913 on S. rim; Dig pits 30x24x12 ins. crosswise on each line, N. & S. 4 ft., and E. of cor. 8 ft. dist., and raise a mound of earth 5 ft. base $2\frac{1}{2}$ ft. high E. of cor. No bearings available.
	Land, broken, heavily rolling. Soil, 3rd rate, gravelly, dry. Mesquite, cacti, catclaw, greasewood, fair grass. Aug. 4, 1913. J. B. W.

Chains.	
	Aug. 4, 1913. <span style="float: right;">W. H. E.</span>
	At 9h a.m., l.m.t., at the cor. of Tps. 9 & 10 S., Rs. 12 & 13 E., as recently established by J. B. Wright, and hereinbefore described,
	I set off $17^{\circ}18\frac{1}{2}'$ N. on the decl. arc, and $32^{\circ}35\frac{1}{2}'$ N. on the lat. arc, and determine a meridian with the solar.
	Thence I run, as per instructions,
	North, on range line, bet. secs. 31 & 36.
	Over rolling land, through scattering brush.
28.00	Wash, 20 lks. wide, course NW., asc. grad.
40.00	Top of flat low ridge, brs. WNW. & ESE.
	Set an iron post 3 ft. long, 1 in. in diam. 26 ins. in the ground for $\frac{1}{4}$ sec. cor., marked on brass cap, 1913 on S. rim; $\frac{1}{4}$ S 36 in W., and S 31 in E. half; no bearings available, pits impracticable,
	raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high W. of cor.
	Desc. from cor.
45.00	Wash, 20 lks. wide, course NW., asc.
53.40	Ridge, brs. E. & W., thence over small ridges, broken, heavily rolling land.
73.00	House of Mrs. E. M. Guild brs. East, about 25 chs. dist.
75.00	Ridge, brs. E. & W., desc.
80.00	Set an iron post 3 ft. long, 3 ins. in diam. 24 ins. in the ground for cor. of secs. 25, 30, 31 & 36, marked on brass cap, T 9 S, in N. half, 1913 on S. rim,
	R 12 E S 25 in NW.,
	R 13 E S 30 in NE.,
	S 31 in SE., and
	S 36 in SW. quad.; no bearings available.
	Dig pits $18 \times 18 \times 12$ ins. in each sec. $5\frac{1}{2}$ ft. dist., and raise a mound of earth 4 ft. base 2 ft. high W. of cor.
	Land, heavily rolling, broken.
	Soil, 3rd rate, gravelly, dry.
	Mesquite, catclaw, greasewood, cacti, fair grass.
	North, bet. secs. 25 & 30.
	Over rolling land, through scattering brush, desc. grad.
17.00	Rocky gulch, 10 ft. deep, 30 lks. wide, course NE.
27.00	Same gulch, course NW.
35.00	Conical hill brs. East, about 15 chs. dist.
37.00	Wash, 20 lks. wide, course NW.
40.00	Set an iron post 3 ft. long, 1 in. in diam. 26 ins. in the ground for $\frac{1}{4}$ sec. cor., marked on brass cap, 1913 on S. rim; $\frac{1}{4}$ S 25 in W., and S 30 in E. half; No bearings available Pits impracticable
	raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high W. of cor.
	A conical hill brs. West, about 15 chs. dist.,
47.70	Road, brs. NW. & SE.
55.00	Wash, 30 lks. wide, course NW.
59.00	Large boulder on line.
61.50	Wash, 20 lks. wide, course NW.
67.00	Small ridge, brs. E. & W.,
80.00	Set an iron post 3 ft. long, 3 ins. in diam. 24 ins. in the ground for cor. of secs. 19, 24, 25 & 30, marked on brass cap, T 9 S, in N. half, 1913 on S. rim;
	R 12 E S 24 in NW.,
	R 13 E S 19 in NE.,
	S 30 in SE., and
	S 25 in SW. quad.; from which,
	A paloverde tree 8 ins. diam. brs. N. $28\frac{1}{2}^{\circ}$ E. 103 lks. dist., marked T 9 S R 13 E S 19 B T.
	A mesquite tree 12 ins. diam. brs. S. $63\frac{3}{4}^{\circ}$ E. 172 lks. dist., marked T 9 S R 13 E S 30 B T.
	A mesquite tree 8 ins. diam. brs. S. $65^{\circ}$ W. 213 lks. dist., marked T 9 S R 12 E S 25 B T.
	A mesquite tree 15 ins. diam. brs. N. $37\frac{1}{2}^{\circ}$ W. 100 lks. dist., marked T 9 S R 12 E S 24 B T.
	Land, heavily rolling, broken. Soil, 3rd rate, gravelly.
	Mesquite, paloverde, cacti, fair grass.
	At this cor., at noon, I set off $17^{\circ}16'$ N. on the decl. arc, and observe the sun on the meridian.
	The resulting lat. is $32^{\circ}37'$ N.

West Boundary of T. 9 S., R. 13 E.

Chains.

North, bet. secs. 19 & 24.

Over rolling land, through scattering brush.

3.00

Wash, 20 lks. wide, course WNW.

23.00

Wash, 20 lks. wide, course WNW.

40.00

Set an iron post 3 ft long, 1 in. in diam. 26 ins. in the ground for  $\frac{1}{4}$  sec. cor., marked on brass cap, 1913 on S. rim;  $\frac{1}{4}$  S 24 in W., and S 19 in E. half; from which,

A mesquite tree 12 ins. diam. brs. S. 65° E. 45 lks. dist., marked  $\frac{1}{4}$  S 19 B T.

A mesquite tree 8 ins. diam. brs. S. 27° W. 89 lks. dist., marked  $\frac{1}{4}$  S 24 B T.

44.00

Wash, 90 lks. wide, course WNW.

78.00

Wash, 20 lks. wide, course WNW.

80.00

Set an iron post 3 ft. long, 3 ins. in diam. 24 ins. in the ground for cor. of secs. 13, 18, 19 & 24, marked on brass cap, T 9 S, in N. half, 1913 on S. rim, R 12 E S 13 in NW., R 13 E S 18 in NE., S 19 in SE., and S 24 in SW. quad.; from which,

A mesquite tree 8 ins. diam. brs. N. 30° E. 174 lks. dist., marked T 9 S R 15 E S 18 B T.

A mesquite tree 6 ins. diam. brs. S. 16° E. 182 lks. dist., marked T 9 S R 13 E S 19 B T.

A paloverde tree 6 ins. diam. brs. S. 71 $\frac{1}{2}$ ° W. 158 lks. dist., marked T 9 S R 12 E S 24 B T.

A mesquite tree 8 ins. diam. brs. N. 24 $\frac{3}{4}$ ° W. 129 lks. dist., marked T 9 S R 12 E S 13 B T.

Land, rolling, broken.

Soil, 3rd rate, gravelly, dry.

Mesquite, paloverde, ctaclaw, cacti, fair grass.

North, bet. secs. 13 & 18.

Over heavily rolling land, through scattering brush.

1.00

Wash, 50 lks. wide, course WNW., asc. grad.

20.00

Top of E. slope, bet. 2 buttes, brs. E. about 10 chs., and W., about 5 chs. dist., desc.

28.00

Gulch, 20 lks. wide, course ESE., asc.

35.00

Top of rise, brs. E. & W., desc. steep.

40.00

Set an iron post 3 ft. long, 1 in. in diam. 26 ins. in the ground for  $\frac{1}{4}$  sec. cor., marked on brass cap, 1913 on S. rim,  $\frac{1}{4}$  S 13 in W., and S 18 in E. half; No bearings available  
Pits impracticable

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

42.00

Wash, 20 lks. wide, course WNW., thence over rolling land.

55.00

Wash, 30 lks. wide, course WNW.

80.00

Set an iron post 3 ft. long, 3 ins. in diam. 24 ins. in the ground for cor. of secs. 7, 12, 13 & 18, marked on brass cap, T 9 S, in N. half, 1913 on S. rim, R 12 E S 12 in NW., R 13 E S 7 in NE., S 18 in SE., and

S 13 in SW. quad.; Pits impracticable,  
no bearings available.

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

Land, rolling, broken.

Soil, 3rd rate, gravelly, dry.

Mesquite, paloverde, catclaw, cacti, fair grass.

Chains.	
	North, bet. secs. 7 & 12. Over rolling, broken land, through scattering brush.
3.00	Wash, 25 lks. wide, course WNW.
10.00	Wash, 90 lks. wide, course WNW.
31.50	Old road, brs. NW. & SE.
35.60	Main road, Tucson to Phoenix, brs. NW. & SE.
40.00	Set an iron post 3 ft. long, 1 in. in diam. 26 ins. in the ground for $\frac{1}{4}$ sec. cor., marked on brass cap, 1913 on S. rim, $\frac{1}{4}$ S 12 in W., and S 7 in E. half; no bearings available dig pits 18x18x12 ins. N. & S. of cor. 3 ft. dist., and raise a mound of earth $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high W. of cor.
47.00	Wash, 150 lks. wide, course WNW.
55.00	Wash, 200 lks. wide, course WNW.
80.00	Set an iron post 3 ft. long, 3 ins. in diam. 24 ins. in the ground for cor. of secs. 1, 6, 7 & 12, marked on brass cap, T 9 S, in N. half, 1913 on S. rim, R 12 E S 1 in NW., R 13 E S 6 in NE., S 7 in SE., and Pits impracticable S 12 in SW. quad.; no bearings available. Raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high W. of cor. Land, broken, rolling. Soil, 3rd rate gravelly, dry. Mesquite, paloverde, greasewood, cacti, catclaw.
	North, bet. secs. 1 & 6. Over broken, heavily rolling land, through dense brush.
10.50	Dim road, brs. NW. & SE.
	As point for $\frac{1}{4}$ sec. cor. will fall in wash, at
39.50	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., marked on on brass cap, 1913 on S. rim, W C, $\frac{1}{4}$ N. of centre, S 6 in SE., and Pits impracticable S 1 in SW. quad.; no bearings available. raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high W. of cor.
40.00	Wash, 20 lks. wide, course WNW. Point for $\frac{1}{4}$ sec. cor.
55.00	Wash, 20 lks. wide, course WNW.
80.00	Set an iron post 3 ft. long, 3 ins. in diam. 24 ins. in the ground for cor. of Tps. 8 & 9 S., Rs. 12 & 13 E., marked on brass cap, 1913 on S. rim, T 8 S in N., and T 9 S in S. half, R 12 E S 36 in NW., R 13 E S 31 in NE., S 6 in SE., and S 1 in SW. quad.; from which, A mesquite tree 8 ins. diam. brs. N. $11\frac{1}{2}^{\circ}$ E. 72 lks. dist., marked T 8 S R 13 E S 31 B T. A mesquite tree 6 ins. diam. brs. S. $18\frac{3}{4}^{\circ}$ E. 60 lks. dist., marked T 9 S R 13 E S 6 B T. A paloverde tree 8 ins. diam. brs. S. $73\frac{1}{2}^{\circ}$ W. 105 lks. dist., marked T 9 S R 12 E S 1 B T. A paloverde tree 8 ins. diam. brs. N. $55^{\circ}$ W. 185 lks. dist., marked T 8 S R 12 E S 36 B T. Silver Bell peak brs. S. $55^{\circ}15'$ W. Picacho peak brs. S. $80^{\circ}21'$ W. East peak of Black Mts. brs. N. $67^{\circ}41'$ E. Land, broken, rolling. Soil, 3rd rate, gravelly, stony, dry. Mesquite, paloverde, catclaw, cacti, fair grass. August 4, 1913. W. H. E.

Chains.

August 5, 1913. J. B. W.  
 At 8h a.m., l.m.t., at the cor. of Tps. 8 & 9 S., R. 13 E.,  
 recently established by me, & hereinbefore described,  
 I set off 17°03' N. on the decl. arc, and 32°41' N. on  
 the lat. arc, and determine a meridian with the solar.  
 Thence I run,

West, on a random line, on N. bdy. of Tp., setting  
 temp. corners at intervals of 40 chs.

At 5 miles, 78.67 chs., I intersect cor. of Tps. 8 & 9 S.,  
 Rs. 12 & 13 E., recently established by W. H. Elliott,  
 and hereinbefore described, whence I run,

East, on a true line, bet. secs. 6 & 31,  
 Over broken, rolling land, through dense brush.  
 Var. 13°50' E.

38.67 Set an iron post 3 ft. long, 1 in. in diam. 26 ins. in  
 the ground for  $\frac{1}{4}$  sec. cor., marked on brass cap, 1913 on  
 S. rim,  $\frac{1}{4}$  S 31 in N., and  
 S 6 in S. half; from which,  
 A mesquite tree 6 ins. diam. brs. N. 76°W. 100 lks. dist.,  
 marked  $\frac{1}{4}$  S 31 B T.  
 A mesquite tree 8 ins. diam. brs. S. 77 $\frac{1}{2}$ °W. 105 lks. dist.,  
 marked  $\frac{1}{4}$  S 6 B T.

40.00 Wash, 10 lks. wide, course SW.

53.00 Wash, 10 lks. wide, course SW.

78.45 Wash, 10 lks. wide, course SW.

78.67 Set an iron post 3 ft. long, 3 ins. in diam. 24 ins. in  
 the ground for cor. of secs. 5, 6, 31 & 32, marked on  
 brass cap, T 8 S in N.,  
 T 9 S in S., and  
 R 13 E in W. half, 1913 on S. rim,  
 S 31 in NW.,  
 S 32 in NE.,  
 S 5 in SE., and  
 S 6 in SW. quad.; no bearings available,  
 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 W. of cor.  
 Land, broken, heavily rolling.  
 Soil, 3rd rate, stony, gravelly, dry.  
 Mesquite, paloverde, cacti, fair grass.

East, bet. secs. 5 & 32.  
 Over heavily rolling land, through dense brush.

5.00 Wash, 20 lks. wide, course SSW.

10.00 Same wash, course NW., asc.

40.00 Set an iron post 3 ft. long, 1 in. in diam. 26 ins. in  
 the ground for  $\frac{1}{4}$  sec. cor. marked on brass cap, 1913 on  
 S. rim,  $\frac{1}{4}$  S 32 in N., and No bearings available  
 S 5 in S. half; Pits impracticable  
 raise a mound of stone 2 ft. base, 1 $\frac{1}{2}$  ft. high N. of cor.

40.50 Spur, brs. N. & S., desc.

50.00 Wash, 10 lks. wide, course N., asc.

55.00 Spur, brs. N. & S., desc.

58.00 Asc.

61.50 Ridge, brs. N. & S., desc.

80.00 Set an iron post 3 ft. long, 3 ins. in diam. 24 ins. in  
 the ground for cor. of secs. 4, 5, 32 & 33, marked on  
 brass cap, T 8 S in N., and  
 T 9 S in S., and  
 R 13 E, in W. half, 1913 on S. rim,  
 S 32 in NW.,  
 S 33 in NE.,  
 S 4 in SE. and Pits impracticable  
 S 5 in SW. quad.; no bearings available.  
 raise a mound of stone 2 ft. base, 1 $\frac{1}{2}$  ft. high W. of cor.

Land, broken, rolling.

Soil, 3rd rate, gravelly, stony, dry.

Mesquite, cacti, paloverde, good grass.

At this cor., at noon, I set off 17°0' N. on the decl.  
 arc, and observe the sun on the meridian.

The resulting lat. is 32°41' N.

## Chains.

East, bet. secs. 43 & 35.  
 Over heavily rolling, broken land, through dense brush.  
 10.00 Old road, brs. N. & S.  
 28.00 Wash, 20 lks wide, course NW.  
 33.60 Telephone line, brs. NW. & SE.  
 40.00 Set an iron post 3 ft. long, 1 in. in diam. 26 ins. in the ground for  $\frac{1}{4}$  sec. cor., marked on brass cap, 1913 on S. rim,  $\frac{1}{4}$  S 33 in N., and  
 S 4 in S. half; Pits impracticable no bearings available.  
 raise a mound of stone 2 ft. base,  $1\frac{1}{2}$  ft. high N. of cor.  
 80.00 Set an iron post 3 ft. long, 3 ins. in diam. 24 ins. in the ground for cor. of secs. 3, 4, 33 & 34, marked on brass cap, T 8 S in N.,  
 T 9 S in S., and  
 R 13 E in W. half, 1913 on S. rim,  
 S 33 in NW.,  
 S 34 in NE.,  
 S 3 in SE., and  
 S 4 in SW. quad.; from which,  
 A mesquite tree 8 ins. diam. brs. N.  $6\frac{1}{2}^{\circ}$  E. 94 lks. dist., marked T 8 S R 13 E S 34 B T.  
 A paloverde tree 8 ins. diam. brs. S.  $70\frac{3}{4}^{\circ}$  E. 101 lks. dist., marked T 9 S R 13 E S 3 B T.  
 A paloverde tree 6 ins. diam. brs. S.  $25\frac{1}{4}^{\circ}$  W. 201 lks. dist., marked T 9 S R 13 E S 4 B T.  
 A mesquite tree 6 ins. diam. brs. N.  $24\frac{1}{4}^{\circ}$  W. 225 lks. dist., marked T 8 S R 13 E S 33 B T.  
 Land, broken, rolling.  
 Soil, 3rd rate, gravelly, dry.  
 Mesquite, paloverde, cacti, fair grass.

East, bet. secs. 3 & 34.  
 Over broken, rolling land, through dense brush.  
 31.50 Wash, 30 lks, wide, course SSW.  
 40.00 Set an iron post 3 ft. long, 1 in. in diam. 26 ins. in the ground for  $\frac{1}{4}$  sec cor., marked on brass cap, 1913 on S. rim,  $\frac{1}{4}$  S 34 in N., and  
 S 3 in S. half; No bearings available  
 dig pits 18x18x12 ins. N. & W. of cor. 3 ft. dist., and  
 raise a mound of earth  $3\frac{1}{2}$  ft. base,  $1\frac{1}{2}$  ft. high N. of cor.  
 68.90 Wash, 10 lks. wide, course SSW.  
 80.00 Set an iron post 3 ft. long, 3 ins. in diam. 24 ins. in the ground for cor. of secs. 2, 3, 34 & 35, marked, on brass cap, T 8 S in N., T 9 S in S., and  
 R 13 E, in W. half; 1913 on S. rim;  
 S 34 in NW.,  
 S 35 in NE.,  
 S 2 in SE., and  
 S 3 in SW. quad.; No bearings available,  
 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 W. of cor.  
 Land, broken, rolling.  
 Soil, 3rd rate, gravelly, dry.  
 Mesquite, paloverde, cacti.



Chains.

East, bet. secs. 2 & 35.

Over broken, rolling land, through dense cacti.

10.90 Wash, 20 lks. wide, course SSW.

40.00 Set an iron post 3 ft. long, 1 in. in diam. 26 ins. in the ground for  $\frac{1}{4}$  sec. cor., marked on brass cap, 1913 in S. rim,  $\frac{1}{4}$  S 35 in N., and

S 2 in S. half; no bearings available, dig pits 18x18x12 ins. E. & W. of cor. 3 ft. dist., and raise a mound of earth  $3\frac{1}{2}$  ft. base,  $1\frac{1}{2}$  ft. high N. of cor.

80.00 Set an iron post 3 ft. long, 3 ins. in diam. 24 ins. in the ground for cor. of secs. 1, 2, 35 & 36, marked on brass cap, T 8 S in N.,

T 9 S in S., and R 13 E, in W. half, 1913 on S. rim,

S 35 in NW.,

S 36 in NE.,

S 1 in SE., and

S 2 in SW. quad.; no bearings available,

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 W. of cor.

Land, broken, rolling.

Soil, 3rd rate, gravelly, dry.

Mesquite, cacti, fair grass.

East, bet. secs. 1 & 36.

Over broken, rolling land, through dense cacti.

10.00 Wash, 80 lks. wide, course SW.

40.00 Set an iron post 3 ft. long, 1 in. in diam. 26 ins. in the ground for  $\frac{1}{4}$  sec. cor., marked on brass cap, 1913 in S. rim,  $\frac{1}{4}$  S 36 in N., and

S 1 in S. half; no bearings available, dig pits 18x18x12 ins. E. & W. of cor. 3 ft. dist., and raise a mound of earth  $3\frac{1}{2}$  ft. base,  $1\frac{1}{2}$  ft. high N. of cor.

80.00 To cor. of Tps. 8 & 9 S., R. 13 E., hereinbefore described.

Land, broken, rolling.

Soil, 3rd rate, gravelly, dry.

Mesquite, cacti, fair grass.

J.B.W.

General Description.

The East, West, and North Boundaries of T. 9 S., R. 13 E. run over rolling, or broken land, covered in general with mesquite, paloverde, catclaw, and cacti.

There is no water or timber on or near the lines, nor any indications of a mineral character.

The land to the W. of the W. bdy. is rolling, and for the greater part smooth, with some good agricultural land in places. T. 9 S., R. 12 E. should be subdivided. To the north of the N. bdy. the land rises gradually for several miles to the Black Mountains.

August 5, 1913.

J.B.W.

Boundaries of T. 10 S., R. 13 E.

Latitudes, departures, and closing errors.

Line Designated.	True bearing.	Dist.	Latitudes.		Departures.	
			N.	S.	E.	W.
		Chs.	Chs.	Chs.	Chs.	Chs.
South Boundary S., (2nd. Std. Par. S.)	S. 89°51' W.	75.30	-----	0.20	-----	75.30
	West,	404.70	-----	-----	-----	404.70
West Boundary,	North,	480.00	480.00	-----	-----	-----
North Boundary,	N. 89°59' E.	478.93	.14	-----	478.93	-----
East Boundary,	S. 0°04' E.	480.00	-----	480.00	.56	-----
Convergency,			-----	-----	.46	-----
Totals, -----			480.14	480.20	479.95	480.00
			-----	480.14	-----	479.95
Error in lat., -----			-0.06			
Error in dep., -----			-0.05			

J. B. W. & W. H. E.

Boundaries of T. 9 S., R. 13 E.  
Latitudes, departures, and closing errors.

Line Designated.	True bearing.	Dist.	Latitudes.		Departures.	
			N.	S.	E.	W.
		Chs.	Chs.	Chs.	Chs.	Chs.
South Boundary,	S. 89°59' W.	478.93	-----	0.14	-----	478.93
West Boundary,	North,	480.00	480.00	-----	-----	-----
North Boundary,	East,	478.67	-----	-----	478.67	-----
East Boundary,	South,	480.00	-----	480.00	-----	-----
Convergency,			-----	-----	0.46	-----
Totals, -----			480.00	480.14	479.13	478.93
			-----	480.00	478.93	-----
Error in lat., -----			-0.14			
Error in dep., -----			-0.20			

J. B. W. & W. H. E.

Boundaries of  
Northern portion of  
T. 12 S., R. 13 E.  
(From Book of retracements, Completion of subd.,  
and orig. field notes of subd. and bdrs.)

Line Designated:	True bearing.	Dist.	Latitudes.		Departures.	
			N.	S.	E.	W.
		Chs.	Chs.	Chs.	Chs.	Chs.
	West,	81.69	-----	-----	-----	81.69
Subdivisional South boundary	N. 89°57' W.	80.06	0.07	-----	-----	80.06
	S. 89°58' W.	79.97	-----	0.05	-----	79.97
	S. 89°57' W.	80.14	-----	0.07	-----	80.14
	West,	156.24	-----	-----	-----	156.24
West Boundary	North,	316.80	316.80	-----	-----	-----
North Boundary,	East,	478.48	-----	-----	478.48	-----
East Boundary	S. 0° 10' W.	39.82	-----	39.82	-----	0.12
	S. 0° 05' W.	39.82	-----	39.82	-----	0.06
	S. 0° 04' E.	39.70	-----	39.70	0.05	-----
	S. 0° 02' W.	40.00	-----	40.00	-----	0.02
	South,	39.65	-----	39.65	-----	-----
	S. 0° 02' E.	39.75	-----	39.75	-0.02	-----
	S. 0° 02' W.	40.38	-----	40.38	-----	0.02
	S. 0° 10' E.	37.97	-----	37.97	-0.12	-----
Convergency,			-----	-----	-0.30	-----
			316.87	317.21	478.97	478.32
			-----	316.87	478.32	-----
Error in lat., -----			0.34			
Error in dep., -----			-0.65			

J. B. W.

Completion of  
East Boundary of T. 9 S., R. 14 E.

Chains.	
	<p>Aug. 7, 1913. J.B.W.            At 7h a.m., l.m.t., at the cor. of secs. 13 &amp; 24, on the east bdy. of the Tp., which is a granite stone 6x13x5 ins. above ground, marked and witnessed as described by the Surveyor General,            I set off 16931½' N. on the decl. arc, and 32638' N. on the lat. arc, and determine a meridian with the solar. Thence I run, as per instructions,            North, on E. bdy. of sec. 13.            Over rolling mesa land, through scattering mesquite, cacti, good native grass.</p>
1.70	Wash, 30 lks. wide, course NW.
8.94	Closing cor. of secs. 18 & 19, of T. 9 S., R. 15 E., on line. A stone marked & witnessed as described by the Surveyor General
17.55	Road, brs. NW. & SE.
40.00	Set an iron post 3 ft. long, 1 in. in diam. 26 ins. in the ground for ¼ sec. cor., marked on brass cap, 1913 in S. rim, ¼ S 13 in W. half; no bearings available, dig pits 18x18x12 ins. N. & S. of cor. 3 ft. dist., and raise a mound of earth 3½ ft. base, 1½ ft. high W. of cor.
80.00	Set an iron post 3 ft. long, 3 ins. in diam. 24 ins. in the ground for cor. of secs. 12 & 13, marked on brass cap, T 9 S, in N., and S 7, S 18, R 15 E, in E. half, S 12 in NW., and S 13, R 14 E, in SW. quad.; 1913 on S. rim; dig pits 24x24x12 ins. in each sec. 6 ft. dist., and raise a mound of earth 4 ft. base 2 ft. high W. of cor. Land, rolling. (No bearings available) Soil, 3rd rate, gravelly, dry. Mesquite, dense cholla cacti, fair grass.
40.00	<p>North, on E. bdy. of sec. 12.            Over rolling land through scattering brush.            Set an iron post 3 ft. long, 1 in. in diam. 26 ins. in the ground for ¼ sec. cor., marked on brass cap, ¼ S 12 in W. half; 1913 on S. rim; dig pits 18x18x12 ins. N. &amp; S. of cor. 3 ft. dist., and raise a mound of earth 3½ ft. base, 1½ ft. high W. of cor.</p>
50.10	Wash, 80 lks. wide, course NW. (No bearings available)
54.00	Same wash, course NE.
60.00	Same wash, course NW.
80.00	Set an iron post 3 ft. long, 3 ins. in diam. 24 ins. in the ground for cor. of secs. 1 & 12, marked on brass cap, T 9 S in N., and S 6, S 7, R 15 E, in E. half, 1913 on S. rim; S 1 in NW., and S 12, R 14 E, in SW. quad.; raise a mound of stone 2 ft. base, 1½ ft. high W. of cor. No bearings available. Pits, impracticable. Land, rolling. Soil, 3rd rate, gravelly, dry. Mesquite, cacti, catclaw, fair grass.

Chains.

North, on East bdy. of sec. 1.

Over rolling, broken land, through dense brush.

5.00 Wash, 10 lks. wide, course NW.

40.00 Set an iron post 3 ft. long, 1 in. in diam. 26 ins. in the ground for  $\frac{1}{4}$  sec. cor., marked on brass cap, 1913 in S. rim,  $\frac{1}{4}$  S 1 in W. half; no bearings available dig pits 18x18x12 ins. N. & S. of cor. 3 ft. dist., and raise a mound of earth  $3\frac{1}{2}$  ft. base,  $1\frac{1}{2}$  ft. high W. of cor.

80.00 Set an iron post 3 ft. long, 3 ins. in diam. 24 ins. in the ground for cor. of Tps. 8 & 9 S., R. 14 E., (As later developed this cor. becomes the cor. of 4 Tps., and was re-marked accordingly, as hereinafter described)

marked on brass cap, T 8 S in N.,

R 15 E in E.,

T 9 S in S., and

R 14 E. in W. half, 1913 on S. rim,

S 36 in NW.,

S 31 in NE.,

S 6 in SE., and

S 1 in SW. quad.; no trees available;

dig pits 24x24x12 ins., on each line, N., E., and W. 4 ft. and S. of cor. 8 ft. dist., and

raise a mound of earth 5 ft. base  $2\frac{1}{2}$  ft. high S. of cor., from which,Antelope peak, brs. N.  $4^{\circ}45'$  W., a very prominent lone peak.A conical butte near E. end of Catalina Mts. brs. S.  $30^{\circ}21'$  E.,Sentinel peak brs. N.  $70^{\circ}20'$  E., in black hills.Magnetic variation,  $14^{\circ}05'$  E.

August 7, 1913.

J.B.W.

Chains.

August 7, 1913. J.B.W.

At 10h a.m., l.m.t., at the cor. of Tps. 8 & 9 S., R. 14 E. just established by me, and hereinbefore described,

I set off 16°28½' N. on the decl. arc, and 32°41' N. on the lat. arc, and determine a meridian with the solar. Thence I run,

West, on a random line, setting temp. cors. at intervals of 40 chs.

At 6 miles, 0.18 chs., I intersect the E. bdy. of T. 9 S., R. 13 E., whence the cor. of Tps. 8 & 9 S., Rs. 13 & 14 E., brs. North, 28 lks. dist., established by me, and hereinbefore described, whence I run,

S. 89°58' E., on a true line, setting cors. for secs. in T. 9 S., R. 14 E. only (Since the retracements of S. bdy. of T. 9 S., R. 14 E. developed an excess measurement, which will necessitate closing corners from the north tier of secs. 35, 36, 1 & 2, which should fall within limits of alinement.) Var. 14° E.

Over heavily rolling land, through dense brush, cacti, greasewood, catclaw, mesquite, etc.

9.00  
19.65  
40.18

Wash, 20 lks. wide, course SSW.

Wash, 10 lks. wide, course SW.

Set an iron post 3 ft. long, 1 in. in diam. 26 ins. in the ground for ¼ sec. cor., marked on brass cap, 1913 in S. rim, ¼ S 31 in N. half, no bearings available, dig pits 18x18x12 ins. E. & W. of cor. 3 ft. dist., and raise a mound of earth 3½ ft. base, 1½ ft. high N. of cor.

64.75  
80.18

Wash, 30 lks. wide, course SW.

Set an iron post 3 ft. long, 3 ins. in diam. 24 ins. in the ground for cor. of secs. 31 & 32, marked on brass cap, T 8 S in N.,

S 5, S 6, T 9 S, in S., and

R 14 E, in W. half; 1913 on S. rim,

S 31 in NW., and

S 32 in NE. quad.; No bearings available,

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

Land,, rolling.

Soil, 3rd rate, sandy, gravelly, dry, loose.

Cacti, catclaw, mesquite, good grass.

S. 89°58' E., on S. bdy. of sec. 32.

Over rolling land, through scattering brush.

38.40  
40.00

Wash, 20 lks. wide, course S.

Set an iron post 3 ft. long, 1 in. in diam. 26 ins. in the ground for ¼ sec. cor., marked on brass cap, 1913 in S. rim, ¼ S 32 in N. half; no bearings available, dig pits 18x18x12 ins. E. & W. of cor. 3 ft. dist., and raise a mound of earth 3½ ft. base, 1½ ft. high N. of cor.

52.50  
80.00

Wash, 30 lks. wide, course S.

Set an iron post 3 ft. long, 3 ins. in diam. 24 ins. in the ground for cor. of secs. 32 & 33, marked on brass cap, T 8 S in N.,

S 4, S 5, T 9 S, in S., and

R 14 E, in W. half, 1913 on S. rim,

S 32 in NW., and

S 33 in NE. quad.; No bearings available

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

Land, gently rolling mesa.

Soil, 3rd rate, gravelly, sandy, loose, dry, some clay underlying.

Scattering mesquite brush, catclaw, dense cacti, fair grass.

Chains.	
	S. 89°58' E., on S. bdy. of Sec. 33. Over rolling land, through scattering brush.
12.00	Wash, 30 lks. wide, course S., asc. grad.
40.00	Set an iron post 3 ft. long, 1 in. in diam. 26 ins. in the ground for $\frac{1}{4}$ sec. cor., marked on brass cap, 1913 in S. rim, $\frac{1}{4}$ S 33 in N. half; no bearings available, dig pits 18x18x12 ins. E. & W. of cor. 3 ft. dist., and raise a mound of earth $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high N. of cor.
55.00	Top of flat divide, brs. NNE. & SSW., desc. grad.
72.80	Road, brs. N. & S.,
80.00	Set an iron post 3 ft. long, 3 ins. in diam. 24 ins. in the ground for cor. of secs. 33 & 34, marked on brass cap, T 8 S in N., S 33, S 34, T 9 S in S., and R 14 E in W. half, 1913 on S. rim, S 33 in NW., and S 34 in NE. quad.; dig pits 24x24x12 ins. in each sec. 6 ft. dist., and raise a mound of earth 4 ft. base 2 ft. high N. of cor. No bearings available. Land, rolling. Soil, 3rd rate, gravelly, dry. Mesquite brush, catclaw, cacti, good grass.
	<hr/>
	S. 89°58' E., on S. bdy. of sec. 34.
40.00	Over rolling land, through scattering brush, desc. grad. Set an iron post 3 ft. long, 1 in. in diam. 26 ins. in the ground for $\frac{1}{4}$ sec. cor., marked on brass cap, 1913 in S. rim, $\frac{1}{4}$ S 34 in N. half; no bearings available, dig pits 18x18x12 ins. E. & W. of cor. 3 ft. dist., and raise a mound of earth $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high N. of cor.
46.50	Wash, 10 lks. wide, course SE., enter dense brush.
80.00	Set an iron post 3 ft. long, 3 ins. in diam. 24 ins. in the ground for cor. of secs. 34 & 35, marked on brass cap, T 8 S in N., S 2 S 3, T 9 S in S., and R 14 E, in W. half, S 34 in NW. & S 35 in NE. quad, 1913 on S. rim; dig pits 24x24x12 ins. in each sec. 6 ft. dist., and raise a mound of earth 4 ft. base 2 ft. high N. of cor. Land, rolling, broken. (No bearings available.) Soil, 3rd rate, gravelly, dry. Mesquite, catclaw, cacti, fair grass.
	<hr/>
	S. 89°58' E., on S. bdy. of sec. 35.
16.90	Over rolling, broken land, through dense brush. Wash, 20 lks. wide, course NE.
22.00	Wash, 15 lks. wide, course NE.
38.00	Wash, 15 lks. wide, course SE.
38.32	Road, brs. NNW. & SSE., Tucson to Ray, and Winkelman.
40.00	Set an iron post 3 ft. long, 1 in. in diam. 26 ins. in the ground for $\frac{1}{4}$ sec. cor., marked on brass cap, 1913 on S. rim, $\frac{1}{4}$ S 35 in N. half; from which, A mesquite tree 6 ins. diam. brs. N. $65\frac{1}{4}$ ° E. 214 lks. dist., marked $\frac{1}{4}$ S 35 B T. A catclaw tree 4 ins. diam. brs. S. $2\frac{3}{4}$ ° W. 10 lks. dist., marked $\frac{1}{4}$ S 2 B T.
40.30	Wash, 20 lks. wide, course NE.
75.60	Wash, 20 lks. wide, course NE.
80.00	Set an iron post 3 ft. long, 3 ins. in diam. 24 ins. in the ground for cor. of secs. 1, 2, 35 & 36, marked on brass cap, T 8 S in N., T 9 S in S., and R 14 E in W. half; 1913 on S. rim, S 35 in NW., S 36 in NE., S 1 in SE., and S 2 in SW. quad.; No bearings available, 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 W. of cor. Land, broken, rolling. Soil, 3rd rate, gravelly, dry. Mesquite, catclaw, cacti, sparse grass.

North Boundary of T. 9 S., R. 14 E.

Chains. S. 89°58' E., bet. secs. 1 & 36.  
 Over rolling, broken land, through dense brush.  
 10.90 Wash, 40 lks. wide, course N.  
 12.55 Main road, Tucson to Winkelman, brs. NNE. & SSW.  
 34.50 Wash, 40 lks. wide, course N.  
 37.00 Wash, 80 lks. wide, course NNW.  
 40.00 Set an iron post 3 ft. long, 1 in. in dian, 26 ins. in the ground for  $\frac{1}{4}$  sec. cor., marked on brass cap, 1913 in S. rim,  $\frac{1}{4}$  S 36 in N., and S 31 in S. half; no bearings available, dig pits 18x18x12 ins. E. & W. of cor. 3 ft. dist., and raise a mound of earth  $3\frac{1}{2}$  ft. base,  $1\frac{1}{2}$  ft. high N. of cor.  
 80.00 To cor. of Tps. 8 & 9 S., R. 14 E., as heretofore hereinbefore and described.  
 Land, broken, rolling.  
 Soil, 3rd rate, gravelly, dry.  
 Mesquite, catclaw, cacti, fair grass.

General Description.

The East and North boundaries of T. 9 S., R. 14 E. run over rolling or broken land, near the low divide or mesa between the waters of Camp Grant Wash to the North, and the drainage basin of Canada del Oro to the South, a part of the drainage being to the Southwest. There is no water, or timber on or near the lines. The lands to the North of T. 9 S., R. 14 E. are broken and rolling, containing good grazing lands, and several settlements. T. 8 S., R. 14 E. should be subdivided.

Boundaries of T. 9 S., R. 14 E.  
 Latitudes, departures, and closing errors.

Line Designated.	True bearing.	Dist.	Latitudes.		Departures.	
			N.	S.	E.	W.
		Chs.	Chs.	Chs.	Chs.	Chs.
South Boundary,	N. 89°52' W.	40.16	--0.09	-----	-----	40.16
	West,	40.13	-----	-----	-----	40.13
	N. 89°57' W.	40.14	--0.04	-----	-----	40.14
	N. 89°58' W.	40.16	--0.02	-----	-----	40.16
	N. 89°58' W.	40.14	--0.02	-----	-----	40.14
	N. 89°54' W.	40.14	--0.07	-----	-----	40.14
	N. 89°56' W.	40.12	--0.05	-----	-----	40.12
	N. 89°52' W.	40.12	--0.09	-----	-----	40.12
West Boundary,	N. 89°57' W.	159.40	--0.14	-----	-----	159.40
North Boundary,	North,	480.00	480.00	-----	-----	-----
East Boundary,	S. 89°58' E.	480.18	-----	--0.28	480.18	-----
	South,	240.00	-----	240.00	-----	-----
	S. 0°01' E.	40.01	-----	40.01	--0.01	-----
	S. 0°04' W.	39.97	-----	39.97	--0.00	--0.05
	South,	40.03	-----	40.03	-----	-----
	S. 0°03' W.	40.08	-----	40.08	-----	--0.04
	S. 0°02' E.	40.03	-----	40.03	--0.02	-----
	S. 0°03' E.	40.05	-----	40.05	--0.04	-----
Convergency,					--0.46	-----
	Totals,		480.52	480.45	480.71	480.60
			480.45	-----	480.60	-----
	Error in Lat.,		-----	--0.07	-----	-----
	Error in Dep.,		-----	-----	--0.11	-----

August 7, 1913.

*James B. Wright*  
 U. S. Surveyor.

Chains.

Aug. 19, 1913. J. B. W.  
 At 8h a.m., l.m.t., at the cor. of secs. 1, 6, 7 & 12,  
 on E. bdy. of Tp., which is a granite stone 6x8x6 ins.  
 above ground, marked and witnessed as described by the  
 Surveyor General,  
 I set off 12°52' N. on the decl. arc, and 32°40' N. on  
 the lat. arc, and determine a meridian with the solar.  
 Thence I run,

North, bet. secs. 1 & 6,  
 Over broken, mts. land, through scattering scrub  
 mesquite, catclaw, cacti, fair grass.  
 19.00 Ridge, brs. NNE. & SSW., desc. steep.  
 24.00 Wash, 20 lks. wide, course E., asc. steep.  
 29.60 Spur, brs. NE. & SW., desc.  
 37.10 Wash, 30 lks. wide, course E., asc.  
 40.02 The  $\frac{1}{4}$  sec. cor., on line, which is a granite stone 8x6x6  
 ins. above ground, marked and witnessed as described by  
 the Surveyor General.  
 This cor. is on small spur, brs. E. & W., near E. end.  
 Desc.

61.90 Wire fence, brs. WNW. & ESE., in gulch, 10 lks. wide,  
 course E., asc. broken S. slope.

73.47 The orig. cor. of Tps. 8 & 9 S., Rs. 15 & 16 E. brs.  
 N. 89°46' E., 222 lks. dist., which is a granite  
 stone 30x22x12 ins. above ground, marked and witnessed  
 as described by the Surveyor General, which cor. I  
 change to refer to Tps. 8 S., Rs. 15 & 16 E., only,  
 by destroying the notches on S. & W. edges. Md. stone N.  
 \* (As set on true line subsequently.)

Set an iron post 3 ft. long, 3 ins. in diam. 24 ins. in  
 the ground for closing cor. of Tps. 9 S., Rs. 15 & 16  
 E., marked on brass cap, 1913 on S. rim,  
 C C, S. of centre,  
 T 8 S, R 15 E S 36, R 16 E S 31 in N., and  
 T 9 S, in S. half,  
 R 15 E S 1 in SW., and  
 R 16 E S 6 in SE. quad.;

raise a mound of stone 2 ft. base, 1½ ft. high S. of cor.  
 No bearings available, pits impracticable.  
 Cor. is in small cove, draining to SSE., no mountain  
 peaks visible from cor.

Land, broken, mts.  
 Soil, 3rd rate, stony, gravelly, dry, loose.  
 Mesquite, catclaw, cacti, fair grass.

August 19, 1913. J. B. W.

From Page 38

North half of T. 9 S., R. 15 E.,  
 Latitudes, departures and closing errors.

Line Designated.	True bearing.	Dist.	Latitudes.		Departures.	
			N.	S.	E.	W.
		Chs.	Chs.	Chs.	Chs.	Chs.
Subdivisional South Boundary.	N. 89°58' W.	79.90	--0.05	-----	-----	39.90
	N. 89°59' W.	80.02	--0.02	-----	-----	80.02
	S. 89°58' W.	80.00	-----	--0.05	-----	80.00
	West,	80.07	-----	-----	-----	80.07
	West,	80.00	-----	-----	-----	80.00
West,	11.79	-----	-----	-----	11.79	
West Boundary W of secs 6, 7, & 18,	North,	231.06	231.06	-----	-----	-----
North Boundary,	N. 89°46' E.	411.38	--1.67	-----	411.38	-----
East Boundary E of secs 1, 12 & 13,	South,	233.47	-----	233.47	-----	-----
Convergency,			-----	-----	--0.20	-----
Totals, -----			232.80	233.52	411.58	411.78
			-----	232.80	-----	411.58
Error in Lat., -----			-0.72			
Error in Dep., -----			-0.20			



South Boundary of T. 8 S., R. 15 E.

Chains.	Aug. 19, 1913., continued. J.B.W. From the cor. of Tps. 8 S., Rs. 15 & 16 E., hereinbefore described, I run, West, on a random line, on S. bdy. of T. 8 S., R. 15 E., (As by calculation of closures, this line will fall within limits in alinement.) setting temp. cors. at intervals of 40 chs. At 5 miles, 13.60 chs., I fall 168 lks. North of the cor. of Tps. 8 & 9 S., R. 14 E. set by me Aug. 7, 1913 as hereinbefore described, which cor. I now mark for cor. of 4 Tps., whence I run, N. 89°46' E., on a true line, on S. bdy. of sec. 31. Over rolling land, through dense brush, mesquite, catclaw, cacti, good grass.
11.50	Wash, 2 chs. wide, course NNW.
13.60	Set an iron post 3 ft. long, 3 ins. in diam. 24 ins. in the ground for cor. of secs. 31 & 32, marked on brass cap, T 8 S in N., S 6, S 5, T 9 S, in S., and R 15 E, in W. half, 1913 on S. rim, S 31 in NW., and S 32 in NE. quad.; from which, A mesquite tree 8 ins. diam. brs. N. 72° E. 140 lks. dist., marked T 8 S R 15 E S 32 B T. A mesquite tree 16 ins. diam. brs. N. 12½° W. 180 lks. dist., marked T 8 S R 15 E S 31 B T. Land, rolling. Soil, 3rd rate, gravelly, dry.
40.00	N. 89°46' E., on S. bdy. of sec. 32. Over rolling, broken land, through scattering brush. Set an iron post 3 ft. long, 1 in. in diam. 26 ins. in the ground for ¼ sec. cor., marked on brass cap, 1913 in S. rim, ¼ S 32 in N. half; no bearings available, dig pits 18x18x12 ins. E. & W. of cor. 3 ft. dist., and raise a mound of earth 3½ ft. base, 1½ ft. high N. of cor.
70.30	Wash, 10 lks. wide, course NNW.
80.00	Set an iron post 3 ft. long, 3 ins. in diam. 24 ins. in the ground for cor. of secs. 32 & 33, marked on brass cap, 1913 on S. rim; T 8 S in N., S 4, S 5, T 9 S in S., and R 15 E, in W. half; S 32 in NW., and S 33 in NE. quad.; dig pits 24x24x12 ins. in each sec. 6 ft. dist., and raise a mound of earth 4 ft. base 2 ft. high N. of cor. No bearings available. Land, broken, rolling. Soil, 3rd rate, gravelly, dry. Scattering mesquite brush, catclaw, cacti, good grass.
17.10	N. 89°46' E., on S. bdy. of sec. 33. Over rolling land, through scattering brush. Wash, 20 lks. wide, course NNW.
35.90	Wash, 30 lks. wide, course NNW.
40.00	Set an iron post 3 ft. long, 1 in. in diam. 26 ins. in the ground for ¼ sec. cor., marked on brass cap, 1913 in S. rim, ¼ S 33 in N. half, no bearings available, pits impract. raise a mound of stone 2 ft. base, 1½ ft. high N. of cor.
59.20	Ridge, brs. NNW. & SSE., road on same.
71.00	Wash, 20 lks. wide, course NNW.
78.50	Gulch, 20 lks. wide, course NW.
80.00	Set an iron post 3 ft. long, 3 ins. in diam. 24 ins. in the ground for cor. of secs. 33 & 34, marked on brass cap, T 8 S in N., S 3, S 4, T 9 S in S., and R 15 E, in W. half; 1913 on S. rim, S 33 in NW., and S 34 in NE. quad.; no bearings available, dig pits 24x24x12 ins. in each sec. 6 ft. dist., and raise a mound of earth 4 ft. base 2 ft. high N. of cor. Land, rolling. Soil, 3rd rate, gravelly, dry. Mesquite, catclaw, cacti, fair grass.

Chains.	N. 89°46' E., on S. bdy. of sec. 34. Over rolling land, asc.
5.00	Ridge, brs. NW. & SE., desc.
26.00	Wash, 50 lks. wide, course NW.
40.00	Set an iron post 3 ft. long, 1 in. in diam. 26 ins. in the ground for $\frac{1}{4}$ sec. cor., marked on brass cap, 1913 in S. rim, $\frac{1}{4}$ S 34 in N. half; no bearings available, dig pits 18x18x12 ins. E. & W. of cor. 3 ft. dist., and raise a mound of earth $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high N. of cor.
57.00	Wash, 30 lks. wide, course NW., asc.
73.50	Ridge, brs. NNW. & SSE., desc.
80.00	Set an iron post 3 ft. long, 3 ins. in diam. 24 ins. in the ground for cor. of secs. 34 & 35, marked on brass cap, T 8 S in N., S 2, S 3, T 9 S, in S., and R 15 E, in W. half; 1913 on S. rim, S 34 in NW., and S 35 in NE. quad.; no bearings available, dig pits 24x24x12 ins. in each sec. 6 ft. dist., and raise a mound of earth 4 ft. base, 2 ft. high N. of cor. Land, broken, rolling. Soil, 3rd rate, gravelly, dry. Scattering mesquite, catclaw, cacti, good grass.
	N. 89°46' E., on S. bdy. of sec. 35. Over rolling, broken land, desc.
13.00	Wash, 20 lks. wide, course N.
24.00	Wash, 15 lks. wide, course N., asc.
36.00	Ridge, brs. N. & S., desc.
40.00	Set an iron post 3 ft. long, 1 in. in diam. 26 ins. in the ground for $\frac{1}{4}$ sec. cor., marked on brass cap, 1913 in S. rim, $\frac{1}{4}$ S 35 in N. half; pits impracticable, raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high N. of cor.
49.00	Wash, 10 lks. wide, course N., asc. (no beatings available)
57.00	Ridge, brs. N. & S., desc.
68.00	Wash, 50 lks. wide, course NNW., asc. grad.
77.70	Wash, 20 lks. wide, course NW.
80.00	Set an iron post 3 ft. long, 3 ins. in diam. 24 ins. in the ground for cor. of secs. 35 & 36, marked on brass cap, T 8 S in N., S 1, S 2, T 9 S, in S., and R 15 E, in W. half; 1913 on S. rim, S 35 in NW., and S 36 in NE. quad.; no bearings available, dig pits 24x24x12 ins. in each sec. 6 ft. dist., and raise a mound of earth 4 ft. base 2 ft. high N. of cor. Land, broken, heavily rolling. Soil, 3rd rate, gravelly. Mesquite, catclaw, cacti, good grass.
	N. 89°46' E., on S. bdy. of sec. 36. Over heavily rolling, broken land, asc. grad.
7.50	Dividing ridge, brs. NNE. & SSE., desc.
29.50	Wash, 30 lks. wide, course NNE.,
40.00	Set an iron post 3 ft. long, 1 in. in diam. 26 ins. in the ground for $\frac{1}{4}$ sec. cor., marked on brass cap, 1913 in S. rim, $\frac{1}{4}$ S 36 in N. half, no bearings available, dig pits, 18x18x12 ins. E. & W. of cor. 3 ft. dist. and raise a mound of earth 3 ft. base, $1\frac{1}{2}$ ft. high N. of cor.
48.50	Ridge, brs. NE. & SW. desc. grad. along SSE. slope.
55.95	Wire fence, brs. NE. & SW.
77.78	Closing cor. of Tps. 9 S. R. 15 & 16 E. on line hereinbefore described.
80.00	To cor. of Tps. 8 S., Rs. 15 & 16 E., hereinbefore described. Land, broken, rolling. Soil, 3rd rate, gravelly, dry. Mesquite, catclaw, cacti, good grass.

August 19, 1913.

For traverse of N. half of T. 9 S., R. 15 E., see page 36, this book.

J.B.W.

Chains.

August 23, 1913. J.B.W.  
 At 7h a.m., l.m.t., at the cor. of Tps. 8 & 9 S.,  
 Rs. 14 & 15 E., recently established by me, as  
 hereinbefore described,  
 I set off  $11^{\circ}33\frac{1}{2}'$  N. on the decl. arc, and  $32^{\circ}41'$  N. on  
 the lat. arc, and determine a meridian with the solar.  
 Thence I run, as per instructions,  
 North, on range line, bet. secs. 31 & 36.  
 Over rolling, broken land, desc. gradually, through  
 dense catclaw, and mesquite brush, cacti, sparse grass.  
 31.00 Wash, 40 lks. wide, course NW.  
 40.00 Set an iron post 3 ft. long, 1 in. in diam. 26 ins. in  
 the ground for  $\frac{1}{4}$  sec. cor., marked on brass cap, 1913 in  
 S.rim,  $\frac{1}{4}$  S 36 in W., and  
 S 31 in E. half; no bearings available,  
 dig pits 18x18x12 ins. N. & S. of cor. 3 ft. dist., and  
 raise a mound of earth  $3\frac{1}{2}$  ft. base,  $1\frac{1}{2}$  ft. high W. of cor.  
 41.00 Enter valley of Camp Grant Wash, brs. NNE. & SSW.  
 69.10 Main road, Tucson to Winkelman and San Pedro, brs.  
 NNE. & SSW.  
 71.00 Enter Camp Grant wash, course NNE.  
 78.20 Leave wash.  
 80.00 Set an iron post 3 ft. long, 3 ins. in diam. 24 ins. in  
 the ground for cor. of secs. 25, 30, 31 & 36, marked on  
 brass cap, T 8 S in N.,  
 R 15 E, in E., and  
 R 14 E, in W. half; 1913 on S. rim ;  
 S 25 in NW.,  
 S 30 in NE.,  
 S 31 in SE., and  
 S 36 in SW. quad.; no bearings available,  
 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 W. of cor.  
 Land, rolling. Soil, 2nd & 3rd rate, sandy, gravelly,  
 loamy, loose, dry.  
 Mesquite, catclaw, cacti, sparse grass.

North, bet. secs. 25 & 30.  
 Over valley of draw, through dense brush.

9.00 Leave draw of wash, brs. NNE., asc. grad.  
 40.00 Set an iron post 3 ft. long, 1 in. in diam. 26 ins. in di  
 the ground for  $\frac{1}{4}$  sec. cor., marked on brass cap, 1913 in  
 S.rim,  $\frac{1}{4}$  S 25 in W., and  
 S 30 in E. half; no bearings available,  
 dig pits 18x18x12 ins. N. & S. of cor. 3 ft. dist., and  
 raise a mound of earth  $3\frac{1}{2}$  ft. base,  $1\frac{1}{2}$  ft. high W. of cor.  
 43.80 Wash, 30 lks. wide, course ESE.  
 58.90 Wash, 20 lks. wide, course ESE.  
 80.00 Set an iron post 3 ft. long, 3 ins. in diam. 24 ins. in  
 the ground for cor. of secs. 19, 24, 25 & 30, marked on  
 brass cap, T 8 S in N.,  
 R 15 E in E., and  
 R 14 E in W. half, 1913 on S. rim,  
 S 24 in NW.,  
 S 19 in NE.,  
 S 30 in SE., and  
 S 25 in SW. quad.;  
 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 W. of cor.  
 No bearings available.  
 Land, heavily rolling, broken.  
 Soil, 3rd rate, gravelly, sandy, loose, dry.  
 Mesquite, catclaw, cacti, sparse grass.

Chains.	
	North, bet. secs. 19 & 24. Over heavily rolling, broken land, through scattering brush.
16.00	Road, brs. ESE. & WNW.
17.50	Wash, 150 lks. wide, course ENE.
30.00	Asc.
35.00	Ridge, brs. E. & W., desc.
40.00	Set an iron post 3 ft. long, 1 in. in diam. 26 ins. in the ground for $\frac{1}{4}$ sec. cor., marked on brass cap, 1913 in S. rim, $\frac{1}{4}$ S 24 in W., and S 19 in E. half; no bearings available, dig pits 18x18x12 ins. N. & S. of cor. 3 ft. dist., and raise a mound of earth $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high W. of cor.
44.00	Wash, 20 lks. wide, course ENE.
54.00	Asc.
60.00	Ridge, brs. E. & W., desc.
65.00	Foot, brs. E. & W.
72.00	Wash, 20 lks. wide, course ENE.
80.00	Set an iron post 3 ft. long, 3 ins. in diam. 24 ins. in the ground for cor. of secs. 13, 18, 19 & 24, marked on brass cap, T 8 S in N., R 15 E in E., and R 14 E in W. half, 1913 on S. rim, S 13 in NW., S 18 in NE., S 19 in SE., and S 24 in SW. quad.; 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 W. of cor. No bearings available. Land, broken, heavily rolling. Soil, 3rd rate, gravelly, dry, loose. Catclaw, mesquite, cacti, fair grass. At this cor., at noon, I set off $11^{\circ}28\frac{1}{2}'$ N. on the decl. arc, and observe the sun on the meridian. The observed lat. is $32^{\circ}43'$ N.
	North, bet. secs. 13 & 18. Over rolling, broken land, through dense brush, asc.
6.00	Ridge, brs. ENE. & WSW., desc.
10.50	Wash, 20 lks. wide, course ENE
15.50	Wash, 25 lks. wide, course ENE.
24.00	Wash, 30 lks. wide, course ENE.
30.00	Wash, 40 lks. wide, course ENE.
40.00	Set an iron post 3 ft. long, 1 in. in diam. 26 ins. in the ground for $\frac{1}{4}$ sec. cor., marked on brass cap, 1913 in S. rim, $\frac{1}{4}$ S 13 in W., and S 18 in E. half; no bearings available, dig pits 18x18x12 ins. N. & S. of cor. 3 ft. dist., and raise a mound of earth $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high W. of cor.
47.00	Wash, 10 lks. wide, course SE. As the cor. point of secs. 7, 12, 13 & 18 will fall in wash, at
79.85	Set an iron post 3 ft. long, 3 ins. in diam. 24 ins. in the ground for witness cor. to cor. of secs. 7, 12, 13 & 18, marked on brass cap, 1913 on S. rim, W C, N. of centre, T 8 S in N., R 15 E in E., and R 14 E in W. half, S 12 in NW., S 7 in NE., S 18 in SE., and S 13 in SW. quad.; from which, A catclaw tree 6 ins. diam. brs. N. $34\frac{1}{4}^{\circ}$ E. 58 lks. dist., marked T 8 S R 15 E S 7 B T. A mesquite tree 10 ins. diam. brs. S. $82\frac{1}{2}^{\circ}$ E. 180 lks. dist., marked T 8 S R 15 E S 18 B T. A mesquite tree 8 ins. diam. brs. S. $76\frac{1}{4}^{\circ}$ W. 49 lks. dist., marked T 8 S R 14 E S 13 B T. A mesquite tree 8 ins. diam. brs. N. $84\frac{1}{2}^{\circ}$ W. 120 lks. dist., marked T 8 S R 14 E S 12 B T.
80.00	To cor. point in wash, 10 lks. wide, course ESE. Land, rolling, broken. Soil, 3rd rate, gravelly. Fair grass.

West Boundary of T. 8 S., R. 15 E.

Chains.

North, bet. secs. 7 & 12, from cor. point in wash.  
 Over heavily rolling land, through scattering brush.

3.00 Wash, 20 lks. wide, course ESE.  
 10.00 Wash, 20 lks. wide, course E.  
 27.00 Wash, 110 lks. wide, course ENE.  
 40.00 Set an iron post 3 ft. long, 1 in. in diam. 26 ins. in the ground for  $\frac{1}{4}$  sec. cor., marked on brass cap, 1913 on S. rim,  $\frac{1}{4}$  S 12 in W., and S 7 in E. half; from which,  
 A mesquite tree 8 ins. diam. brs. S.  $26\frac{1}{2}^{\circ}$  E. 52 lks. dist., marked  $\frac{1}{4}$  S 7 B T.  
 A mesquite tree 6 ins. diam. brs. N.  $44\frac{1}{2}^{\circ}$  W. 83 lks. dist., marked  $\frac{1}{4}$  S 12 B T.

Asc. from cor.  
 49.00 Ridge, brs. E. & W., desc.  
 57.00 Wash, 20 lks. wide, course ENE.  
 80.00 Set an iron post 3 ft. long, 3 ins. in diam. 24 ins. in the ground for cor. of secs. 1, 6, 7 & 12, marked on brass cap, T 8 S in N., R 15 E in E., and R 14 E in W. half, 1913 on S. rim, S 1 in NW., S 6 in NE., S 7 in SE., and S 12 in SW. quad.;  
 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 W. of cor. No bearings available.  
 Land, broken, heavily rolling.  
 Soil, 3rd rate, gravelly, dry.  
 Mesquite, cacti, catclaw, fair grass.

North, bet. secs. 1 & 6.  
 Over heavily rolling, broken land, through dense brush.

20.00 Wash, 150 lks. wide, course ESE., asc.  
 25.00 Ridge, brs. E. & W., desc.  
 36.00 Wash, 10 lks. wide, course ESE.  
 40.00 Set an iron post 3 ft. long, 1 in. in diam. 26 ins. in the ground for  $\frac{1}{4}$  sec. cor., marked on brass cap, 1913 in S. rim,  $\frac{1}{4}$  S 1 in W., and S 6 in E. half; no bearings available,  
 dig pits 18x18x12 ins. N. & S. of cor. 3 ft. dist., and raise a mound of earth  $3\frac{1}{2}$  ft. base,  $1\frac{1}{2}$  ft. high W. of cor.

59.00 Wash, 20 lks. wide, course ESE., asc. grad.  
 80.00 Set an iron post 3 ft. long, 3 ins. in diam. 24 ins. in the ground for cor. of Tps. 7 & 8 S., Rs. 14 & 15 E., marked on brass cap,  
 T 7 S in N.,  
 T 8 S in S.,  
 R 15 E in E., and  
 R 14 E in W. half, 1913 on S. rim;  
 S 36 in NW.,  
 S 31 in NE.,  
 S 6 in SE., and  
 S 1 in SW. quad.;

dig pits 24x24x12 ins. on each line, E. W., and N., 4 ft., and S. of cor. 8 ft. dist., and raise a mound of earth 5 ft. base  $2\frac{1}{2}$  ft. high S. of cor. No trees of sufficient size in limits or available.  
 This cor. is situated in a small depression of broken mesa, from which no natural objects are visible.  
 Land, broken, heavily rolling.  
 Soil, 3rd rate, gravelly, dry, loose.  
 Catclaw, mesquite and other brush, cacti, fair grass.

General Description.

The west boundary of T. 8 S., R. 15 E. runs over a broken rolling country, covered in general with dense brush. The land to the west rises gradually to the Black Mountains, about 5 miles dist. T. 8 S., R. 14 E. should be subdivided. August 23, 1913. J. B. W.

## Chains.

	<p>August 26, 1913. J. B. W. At 7h 30m a.m., l.m.t., at the cor. of Tps. 7 &amp; 8 S., Rs. 15 &amp; 16 E., recently re-established by me, as described in book "A", I set off 10°31' N. on the decl. arc, and 32°46' N. on the lat. arc, and determine a meridian with the solar. From the above described cor., a flag at the cor. of Tps. 7 &amp; 8 S., Rs. 14 &amp; 15 E., across the valley of Camp Grant Wash is plainly visible, and after making proper allowance for tangential bearing due to curvature, brs. N. 89°59' W. Therefore I run, on true line, N. 89°59' W., bet. secs. 1 &amp; 36. Over broken mts. land, through scattering catclaw and cacti, good native grass, granite gravel formation. Desc. grad.</p>
10.70	Wash, 30 lks. wide, course NW., asc.
23.20	Old road, brs. NNW. & SSE.
30.00	Ridge, brs. N. & S., desc.
38.00	Wash, 20 lks. wide, course N., asc.
40.00	Set an iron post 3 ft. long, 1 in. in diam. 26 ins. in the ground for $\frac{1}{4}$ sec. cor., marked on brass cap, $\frac{1}{4}$ S 36 in N., and S 1 in S. half; 1913 on S. rim; No bearings available. Dig pits 18x18x12 ins. E. & W. of cor. 3 ft. dist., and raise a mound of earth $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high N. of cor.
65.00	Spur, brs. WNW. & ESE., desc.
76.00	Gulch, 80 lks. wide, course WNW., asc.
80.00	Set an iron post 3 ft. long, 3 ins. in diam. 24 ins. in the ground for cor. of secs. 1, 2, 35 & 36, marked on brass cap, T 7 S in N., T 8 S in S., and R 15 E in W. half, 1913 on S. rim, S 35 in NW., S 36 in NE., S 1 in SE., and S 2 in SW. quad.; No bearings available, pits impracticable. Raise a mound of stone 2 ft. base $1\frac{1}{2}$ ft. high W. of cor. From this cor., a large monument on top of Antelope Peak brs. N. 43°39' W., about 9 miles dist. Land, mts., broken. Soil, 3rd rate, gravelly, dry. Scattering catclaw, cacti, good native grass.
	N. 89°59' W., bet. secs. 2 & 35. Over broken mts. land, asc.
10.00	Ridge, brs. WNW. & ESE., desc.
16.00	Gulch, 40 lks. wide, course NNW., asc.
36.00	Ridge, brs. NW. & SE., desc.
40.00	Set an iron post 3 ft. long, 1 in. in diam. 26 ins. in the ground for $\frac{1}{4}$ sec. cor., marked on brass cap, 1913 in S. rim, $\frac{1}{4}$ S 35 in N., and S 2 in S. half; no bearings available pits impracticable, raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high N. of cor.
46.00	Gulch 30 lks. wide, course NW., asc.
58.00	Ridge, brs. NNW. & SSE., desc.
73.00	Foot of slope, enter Camp Grant draw, brs. NE. & SW.
80.00	Set an iron post 3 ft. long, 3 ins. in diam. 24 ins. in the ground for cor. of secs. 2, 3, 34 & 35, marked on brass cap, T 7 S in N., T 8 S in S., and R 15 E in W. half, 1913 on S. rim, S 34 in NW., S 35 in NE., S 2 in SE., and S 3 in SW. quad.; from which, A mesquite tree 6 ins. diam. brs. N. $14\frac{1}{2}$ ° E. 136 lks. dist., marked T 7 S R 15 E S 35 B T. A catclaw tree 4 ins. diam. brs. S. $5\frac{1}{2}$ ° E. 6 lks. dist., marked T 8 S R 15 E S 2 B T. A catclaw tree 4 ins. diam. brs. S. $79\frac{1}{2}$ ° W. 105 lks. dist., marked T 8 S R 15 E S 3 B T. A mesquite tree 4 ins. diam. brs. N. $46\frac{1}{4}$ ° W. 91 lks. dist., marked T 7 S R 15 E S 34 B T. Land, mts., broken. Soil, 3rd rate, gravelly, dry. Scattering

Chains.

N. 89°59' W., bet. secs. 3 & 34.  
 Over gently rolling valley, through dense mesquite and catclaw.

0.20 Road, Tucson to Winkelman, brs. N. & S.  
 8.00 Enter Camp Grant Wash, course NE.  
 26.00 Leave wash.  
 37.00 Leave valley, brs. NE. & SW., asc. grad.  
 40.00 Set an iron post 3 ft. long, 1 in. in diam. 26 ins. in the ground for  $\frac{1}{4}$  sec. cor., marked on brass cap,  $\frac{1}{4}$  S 34 in N., and S 3 in S. half; 1913 on S. rim;  
 No bearings available. Pits impracticable.  
 Raise a mound of stone 2 ft. base, 1 $\frac{1}{2}$  ft. high N. of cor.  
 80.00 Set an iron post 3 ft. long, 3 ins. in diam. 24 ins. in the ground for cor. of secs. 3, 4, 33 & 34, marked on brass cap, T 7 S in N., T 8 S in S., and R 15 E in W. half, 1913 on S. rim ; S 33 in NW., S 34 in NE., S 3 in SE., and S 4 in SW. quad.; from which,  
 A mesquite tree 8 ins. diam. brs. N. 77° E. 97 lks. dist., marked T 7 S R 15 E S 34 B T.  
 A mesquite tree 8 ins. diam. brs. N. 88° W. 105 lks. dist., marked T 7 S R 15 E S 33 B T.  
 No other trees available, pits impracticable.  
 Raise a mound of stone 2 ft. base, 1 $\frac{1}{2}$  ft. high W. of cor.  
 Land, rolling.  
 Soil, 3rd rate, sandy, gravelly, dry, loose.  
 Mesquite, catclaw, cacti, sparse grass.  
 At this cor. at noon, I set off 10° 26 $\frac{1}{2}$ ' N. on the decl. arc, and observe the sun on the meridian.  
 The resulting lat. is 32° 48' N.

6

N. 89°59' W. bet. secs. 4 & 33.  
 Over broken mesa land, asc. grad., through scattering brush, dense cacti.

7.00 Ridge, brs. WNW. & ESE., desc. grad.  
 32.00 Enter draw, course ENE.  
 39.00 Wash, 5 lks. wide, course ENE.  
 40.00 Set an iron post 3 ft. long, 1 in. in diam. 26 ins. in the ground for  $\frac{1}{4}$  sec. cor., marked on brass cap, 1913 on S. rim,  $\frac{1}{4}$  S 33 in N., and S 4 in S. half; No trees available, dig pits 18x18x12 ins. E. & W. of cor. 3 ft. dist., and raise a mound of earth 3 $\frac{1}{2}$  ft. base, 1 $\frac{1}{2}$  ft. high N. of cor.  
 53.00 Leave draw, asc. grad.  
 80.00 Set an iron post 3 ft. long, 3 ins. in diam. 24 ins. in the ground for cor. of secs. 4, 5, 32 & 33, marked on brass cap, T 7 S in N., T 8 S in S., and R 15 E in W. half, 1913 on S. rim, S 32 in NW., S 33 in NE., S 4 in SE., and S 5 in SW. quad.;  
 No bearings available, pits impracticable.  
 Raise a mound of stone 2 ft. base, 1 $\frac{1}{2}$  ft. high W. of cor.  
 Land, rolling, broken.  
 Soil, 3rd rate, gravelly, dry.  
 Mesquite, catclaw, cacti, fair grass.

Chains. N. 89° 59' W., bet. secs. 5 & 32.  
 Over heavily rolling land, through dense brush.  
 30.00 Wash, 50 lks. wide, course SE.  
 40.00 Set an iron post 3 ft. long, 1 in. in diam. 26 ins. in  
 the ground for  $\frac{1}{4}$  sec. cor., marked on brass cap, 1913 on  
 S. rim,  $\frac{1}{4}$  S 32 in N., and  
 S 5 in S. half; no bearings available.  
 dig pits 18x18x12 ins. E. & W. of cor. 3 ft. dist., and  
 raise a mound of earth  $3\frac{1}{2}$  ft. base,  $1\frac{1}{2}$  ft. high N. of cor.  
 79.53 Wash, 90 lks. wide, course SE.  
 80.00 Set an iron post 3 ft. long, 3 ins. in diam. 24 ins. in  
 the ground for cor. of secs. 5, 6, 31 & 32, marked on  
 brass cap, T 7 S in N.,  
 T 8 S in S., and  
 R 15 E in W. half, 1913 on S. rim,  
 S 31 in NW.,  
 S 32 in NE.,  
 S 5 in SE., and  
 S 6 in SW. quad.;  
 Raise a mound of stone 2 ft. base,  $1\frac{1}{2}$  ft. high W. of cor.  
 No bearings available, pits impracticable.  
 Land, heavily rolling.  
 Soil, 3rd rate, gravelly, dry.  
 Mesquite, cacti, catclaw, fair grass.

12.18 N. 89° 59' W., bet. secs. 6 & 31.  
 Over rolling land.  
 To cor. of Tps. 7 & 8 S., Rs. 14 & 15 E., as recently  
 established by me, and hereinbefore described.  
 Land, rolling.  
 Soil, 3rd rate, gravelly, dry.  
 Mesquite, catclaw, cacti, fair grass.

J.B.W.

General Description.  
 The North boundary of T. 8 S., R. 15 E. runs over mts.,  
 broken land, covered in general with a fair growth of  
 mesquite and catclaw, and in places with dense cholla  
 cacti.  
 There is no water or timber on or near the line.  
 The soil is a formation from the decomposition of  
 granite and conglomerate.

J.B.W.

T. 8 S., R. 15 E.

Latitudes, departures, and closing errors.

Line Designated.	True bearing.	Dist.	Latitudes.		Departures.	
			N.	S.	E.	W.
		Chs.	Chs.	Chs.	Chs.	Chs.
South Boundary,	S. 89° 46' W.	413.60	-----	1.68	-----	413.60
West Boundary,	North,	480.00	480.00	-----	-----	-----
North Boundary,	S. 89° 59' E.	412.18	-----	0.12	412.18	-----
	S. 0° 20' E.	40.02	-----	40.02	0.24	-----
	S. 0° 05' W.	39.96	-----	39.96	-----	0.06
	S. 0° 04' E.	39.60	-----	39.60	0.05	-----
	S. 0° 02' W.	39.82	-----	39.82	-----	0.02
	S. 0° 03' W.	39.67	-----	39.67	-----	0.03
East Boundary,	S. 0° 21' E.	39.48	-----	39.48	0.24	-----
	S. 0° 05' W.	39.85	-----	39.85	-----	0.06
	S. 0° 15' E.	39.69	-----	39.69	0.18	-----
	South,	79.94	-----	79.94	-----	-----
	S. 0° 05' W.	40.07	-----	40.07	-----	0.06
	S. 0° 07' E.	39.95	-----	39.95	-0.08	-----
Convergenc			-----		0.40	-----
	Totals,	-----	480.00	479.85	413.37	413.83
			479.85	-----	-----	413.37
	Error in lat.,	-----	-0.15	Error in dep.,	-----	-0.46

August 26, 1913.

J.B.W.



Chains.

Sept. 1, 1913. W. H. E.  
 At 8h a.m., l.m.t., at the cor. of Tps. 7 & 8 S., Rs. 14 & 15 E., recently established by J. B. Wright, and hereinbefore described,  
 I set off 8°23' N. on the decl. arc, and 32°46' N. on the lat. arc, and determine a meridian with the solar. Thence I run, on range line, North, bet. secs. 31 & 36.  
 Var. 14° E.  
 Over heavily rolling, broken land, through scattering mesquite, catclaw, cacti.

6.00  
 35.00  
 40.00  
 45.00  
 51.50  
 80.00

Wash, 20 lks. wide, course SE.  
 Wash, 20 lks. wide, course ENE.  
 Set an iron post 3 ft. long, 1 in. in diam. 26 ins. in the ground for  $\frac{1}{4}$  sec. cor., marked on brass cap, 1913 on S. rim,  $\frac{1}{4}$  S 36 in W., and S 31 in E. half; no trees available; dig pits 18x18x12 ins. N. & S. of cor. 3 ft. dist., and raise a mound of earth  $3\frac{1}{2}$  ft. base,  $1\frac{1}{2}$  ft. high W. of cor.  
 Wash, 20 lks. wide, course NE.  
 Wash, 10 lks. wide, course ESE.  
 Set an iron post 3 ft. long, 3 ins. in diam. 24 ins. in the ground for cor. of secs. 25, 30, 31 & 36, marked on brass cap, T 7 S in N. half, 1913 on S. rim, R 14 E S 25 in NW., R 15 E S 30 in NE., S 31 in SE., and S 36 in SW. quad.; 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 W. of cor. No bearings available.  
 Land, broken, heavily rolling.  
 Soil, 3rd rate, gravelly, dry.  
 Cacti, catclaw, mesquite, fair grass.

2.00  
 25.00  
 33.50  
 40.00  
 46.50  
 63.00  
 64.00  
 75.00  
 80.00

North, bet. secs. 25 & 30.  
 Over broken mts. land, through dense brush.  
 Wash, 50 lks. wide, course ESE., asc. grad.  
 Ridge, brs. NE. & SW., desc.  
 Wash, 10 lks. wide, course NE.  
 Set an iron post 3 ft. long, 1 in. in diam. 26 ins. in the ground for  $\frac{1}{4}$  sec. cor., marked on brass cap, 1913 on S. rim,  $\frac{1}{4}$  S 25 in W., and S 30 in E. half; from which,  
 A mesquite tree 8 ins. diam. brs. S.  $39\frac{1}{2}$  E. 133 lks. dist., marked  $\frac{1}{4}$  S 30 B T.  
 A mesquite tree 6 ins. diam. brs. S.  $12\frac{1}{4}$  W. 83 lks. dist., marked  $\frac{1}{4}$  S 25 B T.  
 Wash, 30 lks. wide, course NE.  
 Wash, 25 lks. wide, course ENE.  
 Dim road, brs. ENE. & WSW.  
 Wash, 50 lks. wide, course ENE.  
 Set an iron post 3 ft. long, 3 ins. in diam. 24 ins. in the ground for cor. of secs. 19, 24, 25 & 30, marked on brass cap, T 7 S in N. half, 1913 on S. rim, R 14 E S 24 in NW., R 15 E S 19 in NE., S 30 in SE., and S 25 in SW. quad.; from which,  
 A mesquite tree 10 ins. diam. brs. S.  $3^{\circ}$  W. 117 lks. dist., marked T 7 S R 14 E S 25 B T.  
 No other bearings available.  
 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 W. of cor.  
 Land, broken, mts.  
 Soil, 3rd rate, gravelly, dry.  
 Cacti, catclaw, mesquite, fair grass.  
 At this cor. at noon, I set off 8°18' N. on the decl. arc, and observe the sun on the meridian.  
 The resulting lat. is 32°48' N.

Chains.	
	North, bet. secs. 19 & 24. Over mts., broken land, through dense brush.
14.00	Ridge, brs. ENE. & WSW., desc.
23.00	Wash, 20 lks. wide, course ESE., asc.
27.30	Ridge, brs. SE. & NW., desc.
33.50	Wash, 10 lks. wide, course SE., asc.
40.00	Set an iron post $\frac{3}{4}$ ft. long, 1 in. in diam. 26 ins. in the ground for $\frac{1}{4}$ sec. cor., marked on brass cap, 1913 in S. rim, $\frac{1}{4}$ S 24 in W., and $\frac{1}{4}$ S 19 in E. half; <del>1913</del> pits impracticable raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high W. of cor.
42.50	Ridge, brs. ENE. & WSW., desc.
58.00	Wash, 20 lks. wide, course ENE.
68.00	Wash, 20 lks. wide, course SE., asc.
71.00	Ridge, brs. SE. & NW., desc.
79.00	Wash, 15 lks. wide, course SE., asc.
80.00	Set an iron post $\frac{3}{4}$ ft. long, $\frac{3}{4}$ ins. in diam. 24 ins. in the ground for cor. of secs. 13, 18, 19 & 24, marked on brass cap, T 7 S in N. half, 1913 on S. rim, R 14 E S 13 in NW., R 15 E S 18 in NE., S 19 in SE., and S 24 in SW. quad.; No bearings available, pits impracticable. Raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high W. of cor. Land, mts., broken. Soil, 3rd rate, gravelly, stony, dry. Mesquite, catclaw, greasewood, cacti, fair grass. Sept. 1, 1913.

W.H.E.

	W. H. E. Sept. 2, 1913. At 8h a.m., l.m.t., at the cor. of secs. 13, 18, 19 & 24, above described, I set off $89^{\circ}01'$ N. on the decl. arc, and $32^{\circ}48\frac{1}{2}'$ N. on the lat. arc, and determine a meridian with the solar. Thence I run, North, bet. secs. 13 & 18. Over mts., broken land, asc., through dense brush.
10.00	Ridge, brs. E. & W., desc.
14.50	Wash, 10 lks. wide, course ESE., asc.
22.00	Ridge, brs. E. & W., desc.
36.00	Enter draw, course E.
40.00	point for $\frac{1}{4}$ sec. cor., in wash, 2 chs. wide, course ESE.
41.80	Set an iron post $\frac{3}{4}$ ft. long, 1 in. in diam. 26 ins. in the ground for witness cor. to $\frac{1}{4}$ sec. cor., marked on brass cap, W C $\frac{1}{4}$ S. of centre, 1913 on S. rim, S 13 in NW., and <del>no bearings available</del> S 18 in NE. quad.; <del>pits impracticable,</del> raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high W. of cor.
42.50	Road, brs. ESE. & WNW.
44.00	Leave draw, asc.
64.50	Ridge, brs. E. & W., desc. steep.
78.50	Wash, 10 lks. wide, near head, course SW., asc.
80.00	Set an iron post $\frac{3}{4}$ ft. long, $\frac{3}{4}$ ins. in diam. 24 ins. in the ground for cor. of secs. 7, 12, 13 & 18, marked on brass cap, T 7 S in N. half, 1913 on S. rim, R 14 E S 12 in NW., R 15 E S 7 in NE., S 18 in SE., and S 13 in SW. quad.; No bearings available, pits impracticable. Raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high W. of cor. Land, broken, mts. Soil, 3rd rate, gravelly, dry, stony. Mesquite, greasewood, catclaw, cacti, sparse grass.

West Boundary of T. 7 S., R. 15 E.

Chains.

North, bet. secs. 7 & 12.  
Over broken mts. land, asc. through dense brush.

5.00 Ridge, brs. SE. & NW., desc.  
10.00 Wash, 10 lks. wide, course SE.  
16.00 Wash, 20 lks. wide, course SE., asc.  
35.00 Ridge, brs. SE. & NW., desc.  
40.00 Set an iron post 3 ft. long, 1 in. in diam. 26 ins. in the ground for  $\frac{1}{4}$  sec. cor., marked on brass cap, 1913 on S. rim,  $\frac{1}{4}$  S 12 in W., and ~~no bearings available,~~ S 7 in E. half; ~~pits impracticable,~~ raise a mound of stone 2 ft. base,  $1\frac{1}{2}$  ft. high W. of cor.

41.00 Wash, 10 lks. wide, course SE., asc.  
50.00 Ridge, brs. SE. & NW., desc.  
53.00 Wash, 20 lks. wide, course SE., asc.  
58.00 Ridge, brs. SE. & NW., desc.  
59.00 Wash, 30 lks. wide, course SE., asc. grad.  
69.00 Wash, 20 lks. wide, course SE., asc. steep.  
79.00 Ridge, brs. SE. & NW., desc.  
80.00 Set an iron post 3 ft. long, 3 ins. in diam., 24 ins. in the ground for cor. of secs. 1, 6, 7 & 12, marked on brass cap, T 7 S in N. half, 1913 on S. rim, R 14 E S 1 in NW., R 15 E S 6 in NE., S 7 in SE., and ~~no bearings available,~~ S 12 in SW. quad.; ~~pits impracticable,~~ raise a mound of stone 2 ft. base,  $1\frac{1}{2}$  ft. high W. of cor.

Land, broken, mts. Soil, 3rd rate, gravelly, dry.  
Mesquite, greasewood, catclaw, cacti, sparse grass.  
At this cor. at noon, clouds obscure the sun;  
impracticable to observe the lat.

North, bet. secs. 1 & 6.  
Over broken land, through dense brush, desc.

7.00 Wash, 20 lks. wide, course SE.  
12.00 Wash, 10 lks. wide, course SE., asc.  
22.00 Ridge, brs. SE. & NW., desc.  
25.00 Wash, 20 lks. wide, course SE.  
30.00 Wash, 20 lks. wide, course SE., asc.  
39.00 Ridge, brs. SE. & NW., desc.  
40.00 Set an iron post 3 ft. long, 1 in. in diam. 26 ins. in the ground for  $\frac{1}{4}$  sec. cor., marked on brass cap, 1913 on S. rim,  $\frac{1}{4}$  S 1 in W., and ~~no bearings available,~~ S 6 in E. half; ~~pits impracticable,~~ raise a mound of stone 2 ft. base,  $1\frac{1}{2}$  ft. high W. of cor.

45.00 Wash, 20 lks. wide, course SE., asc.  
47.00 Ridge, brs. SE. & NW., desc.  
49.00 Wash, 20 lks. wide, course SE., asc.  
55.00 Ridge, brs. SE. & NW., desc.  
60.00 Wash, 20 lks. wide, course SE., asc. grad.  
79.00 Low ridge, brs. E. & W., desc.  
80.00 Set an iron post 3 ft. long, 3 ins. in diam. 24 ins. in the ground for cor. of Tps. 6 & 7 S., Rs. 14 & 15 E., marked on brass cap, 1913 on S. rim, T 6 S in N., T 7 S in S., R 15 E in E., and R 14 E in W. half, S 36 in NW., S 31 in NE., S 6 in SE., and ~~pits impracticable,~~ S 1 in SW. quad.; ~~No bearings available.~~ Raise a mound of stone 4 ft. base,  $2\frac{1}{2}$  ft. high S. of cor.

Land, broken, mts. Soil, 3rd rate, gravelly, stony, dry.  
Catclaw, cacti, greasewood, mesquite, fair grass.

General Description.

The W. bdy. of T. 7 S., R. 15 E. runs over a broken, dry country, covered with cacti, scrub mesquite, and other brush. There is no water or timber on or near the line. Good grazing land lies to the west of the line.  
Sept. 2, 1913. W. H. E.

Chains.

W. H. E.

Sept. 5, 1913.  
 At 7h a.m., l.m.t., at the cor. of Tps. 6 & 7 S., R. 15 E.,  
 reestablished by J. B. Wright, and described  
 in book "A",  
 I set off  $7^{\circ}40\frac{1}{2}'$  N. on the decl. arc, and  $32^{\circ}51'$  N. on  
 the lat. arc, and determine a meridian with the solar.  
 Thence I run,  
 West, on a random line.  
 Since the falling of the W. bdy. of T. 7 S., R. 16 E.  
 to the west, is 5.90 chs., as shown in re-survey of  
 said line by J. B. Wright, and noted in book "A",  
 pages 21-23, therefore, at  
 34.10 on random line, set temp.  $\frac{1}{4}$  sec. cor.,  
 74.10 Set temp. cor. of secs. 1, 2, 35 & 36.  
 Continuing my random line west from this point,  
 setting temp. cors. at intervals of 40 chs.; at  
 4 miles, 11.48 chs., from above temp. cor. of secs.  
 1, 2, 35 & 36, or total dist. of N. bdy. of Tp. of  
 5 miles, 5.58 chs., I intersect W. bdy. of Tp. at a  
 point 35 lks. S. of the cor. of Tps. 6 & 7 S., Rs. 14 &  
 15 E., as established by me, hereinbefore described,  
 whence I run, on a true line,  
 S.  $89^{\circ}57'$  E., bet. secs. 6 & 31.  
 Var.  $14^{\circ}05'$  E.  
 Over mts. land, desc. grad., through scattering brush.  
 9.50 Wash, 40 lks. wide, course SE.  
 11.48 Set an iron post 3 ft. long, 3 ins. in diam. 24 ins. in  
 the ground for cor. of secs. 5, 6, 31 & 32, marked on  
 brass cap, T 6 S in N.,  
 T 7 S in S., and  
 R 15 E in W. half, 1913 on S. rim,  
 S 31 in NW.,  
 S 32 in NE.,  
 S 5 in SE., and  
 S 6 in SW. quad.; from which,  
 A mesquite tree 8 ins. diam. brs. S.  $22\frac{1}{2}^{\circ}$  W. 165 lks. dist.,  
 marked T 7 S R 15 E S 6 B T.  
 No other bearings available, pits impracticable.  
 Raise a mound of stone 2 ft. base,  $1\frac{1}{2}$  ft. high W. of cor.  
 Land, mts. Soil, 3rd rate, gravelly. mesquite, cacti.

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S.  $89^{\circ}57'$  E., bet. secs. 5 & 32.  
 Over mts. land, asc., through scattering brush.  
 10.00 Ridge, brs. SE. & NW., thence along N. slope.  
 40.00 Set an iron post 3 ft. long, 1 in. in diam. 26 ins. in  
 the ground for  $\frac{1}{4}$  sec. cor., marked on brass cap, 1913 in  
 S. rim,  $\frac{1}{4}$  S 32 in N., and  
 S 5 in S. half; ~~1913~~ no bearings available,  
 pits impracticable,  
 raise a mound of stone 2 ft. base,  $1\frac{1}{2}$  ft. high N. of cor.  
 43.00 Same ridge as above, brs. ENE. & WSW.  
 60.00 Same ridge, brs. SE. & NW., desc.  
 68.00 Wash, 40 lks. wide, course SE.  
 80.00 Set an iron post 3 ft. long, 3 ins. in diam. 24 ins. in  
 the ground for cor. of secs. 4, 5, 32 & 33, marked on  
 brass cap, T 6 S in N.,  
 T 7 S in S., and  
 R 15 E in W. half, 1913 on S. rim,  
 S 32 in NW.,  
 S 33 in NE.,  
 S 4 in SE., and  
 S 5 in SW. quad.; ~~1913~~ no bearings available,  
 pits impracticable,  
 raise a mound of stone 2 ft. base,  $1\frac{1}{2}$  ft. high W. of cor.  
 Land, mts., broken.  
 Soil, 3rd rate, gravelly, stony, dry.  
 Mesquite, catclaw, cacti, fair grass.  
 At this cor. at noon, I set off  $7^{\circ}35'$  N. on the decl. arc,  
 and observe the sun on the meridian.  
 The resulting lat. is  $32^{\circ}51'$  N.

Chains.	
	S. 89°57' E., bet. secs. 4 & 33. Over mts. land, along S. slope, through scattering brush.
11.00	Enter draw, course ENE.
16.00	Wash, 2 chs. wide, course ENE.
40.00	Set an iron post 3 ft. long, 1 in. in diam. 26 ins. in the ground for $\frac{1}{4}$ sec. cor., marked on brass cap, 1913 on S. rim, $\frac{1}{4}$ S 33 in N., and S 4 in S. half; from which, A mesquite tree 6 ins. diam. brs. S. 36°W. 230 lks. dist., marked $\frac{1}{4}$ S 4 B T. A catclaw tree 4 ins. diam. brs. N. 63 $\frac{1}{2}$ °W. 71 lks. dist., marked $\frac{1}{4}$ S 33 B T.
46.00	Wash, 80 lks. wide, course NE.
50.00	Leave draw, asc.
66.00	Gulch, 40 lks. wide, course NNE., asc. steep.
76.00	N. side of spur, brs. NNE. & SSW., near N. end, thence a along N. slope.
80.00	Set an iron post 3 ft. long, 3 ins. in diam. 24 ins. in the ground for cor. of secs. 3, 4, 33 & 34, marked on brass cap, T 6 S in N., T 7 S in S., and R 15 E in W. half, 1913 on S. rim, S 33 in NW., S 34 in NE., S 3 in SE., and pits impracticable, S 4 in SW. quad.; no bearings available; raise a mound of stone 2 ft. base, 1 $\frac{1}{2}$ ft. high W. of cor. Land, mts. Soil, 3rd rate, gravelly, stony, dry. Sparse mesquite, catclaw, cacti, good native grass.
	S. 89°57' E., bet. secs. 3 & 34. Over mts. land, along broken N. slope., desc.
7.00	Gulch, 30 lks. wide, course N.
19.00	Gulch, 30 lks. wide, course N., asc.
38.00	Ridge, brs. ENE. & SW., desc. SE. slope.
40.00	Set an iron post 3 ft. long, 1 in. in diam. 26 ins. in the ground for $\frac{1}{4}$ sec. cor., marked on brass cap, 1913 in S. rim, $\frac{1}{4}$ S 34 in N., and no bearings available, S 3 in S. half; pits impracticable, raise a mound of stone 2 ft. base, $\frac{1}{2}$ ft. high N. of cor.
65.00	Wash, 20 lks. wide, course ESE., asc. grad.
80.00	Set an iron post 3 ft. long, 3 ins. in diam. 24 ins. in the ground for cor. of secs. 2, 3, 34 & 35, marked on brass cap, T 6 S in N., T 7 S in S., and R 15 E in W. half, 1913 on S. rim, S 34 in NW., S 35 in NE., S 2 in SE., and pits impracticable, S 3 in SW. quad.; no bearings available; raise a mound of stone 2 ft. base, 1 $\frac{1}{2}$ ft. high W. of cor. Land, mts., broken. Soil, 3rd rate, gravelly, stony, dry. Sparse mesquite, catclaw, dense clumps of cacti, good native grass.

## Chains.

S. 89°57' E. bet. secs. 2 & 35.  
 Over mts. land, asc. grad., through dense cholla cacti.  
 Ridge, brs. ESE. & NW., desc. grad.  
 7.00  
 40.00 Set an iron post 3 ft. long, 1 in. in diam. 26 ins. in  
 the ground for  $\frac{1}{4}$  sec. cor., marked on brass cap,  
 $\frac{1}{4}$  S 35 in N., and  
 S 2 in S. half; 1913 on S. rim;  
 dig pits 18x18x12 ins. E. & W. of cor. 3 ft. dist., and  
 raise a mound of earth  $3\frac{1}{2}$  ft. base,  $1\frac{1}{2}$  ft. high N. of cor.  
 46.50 Wash, 30 lks. wide, course ENE.  
 68.00 Same wash, 30 lks. wide, course ESE.  
 77.50 Same wash, 2 chs. wide, course ENE., asc.  
 80.00 Set an iron post 3 ft. long, 3 ins. in diam. 24 ins. in  
 the ground for cor. of secs. 1, 2, 35 & 36, marked on  
 brass cap, T 6 S in N.,  
 T 7 S in S., and  
 R 15 E in W. half, 1913 on S. rim,  
 S 35 in NW.,  
 S 36 in NE.,  
 S 1 in SE., and  
 S 2 in SW. quad.; from which,  
 A mesquite tree 14 ins. diam. brs. S. 30°W. 23 lks. dist.,  
 marked T 7 S R 15 E S 2 B T.  
 No other bearings available, pits, impracticable.  
 Raise a mound of stone 2 ft. base,  $1\frac{1}{2}$  ft. high W. of cor.  
 Land, mts., broken.  
 Soil, 3rd rate, gravelly, dry.  
 Mesquite, catclaw, in washes, dense cholla cacti.

S. 89°57' E., bet. secs. 1 & 36.  
 Over broken, heavily rolling land, through jungle of  
 cholla cacti.  
 33.00 Spur, brs. NE. & SW., desc. grad.  
 40.00 Set an iron post 3 ft. long, 1 in. in diam. 26 ins. in  
 the ground for  $\frac{1}{4}$  sec. cor., marked on brass cap, 1913 on  
 S. rim,  $\frac{1}{4}$  S 36 in N., and  
 S 1 in S. half; no bearings available.  
 dig pits 18x18x12 ins. E. & W. of cor. 3 ft. dist., and  
 raise a mound of earth and stone  $3\frac{1}{2}$  ft. base,  $1\frac{1}{2}$  ft. high  
 N. of cor.  
 42.00 Wash, 10 lks. wide, course ENE.  
 50.00 Spur, brs. NNW. & SSE., near N. end.  
 60.00 Wash, 20 lks. wide, course ESE.  
 65.00 Same wash, 40 lks. wide, course ENE., asc. grad.  
 70.00 Flat spur, brs. NE. & SW., desc.  
 74.10 To cor. of Tps. 6 & 7 S., R. 15 E., reestablished by  
 J. B. Wright, and described in book "A".  
 Land, broken, heavily rolling.  
 Soil, 3rd rate, gravelly, dry.  
 Cacti, mesquite, catclaw, sage brush, fair grass.

W. H. E.

## General Description.

The north boundary of T. 7 S., R. 15 E. runs over a  
 broken, mts., or heavily rolling country, descending  
 gradually from the west to the east.  
 The land is covered with a fair growth of native grass,  
 with considerable mesquite and catclaw in the washes,  
 and dense cacti on the rolling ridges to the east.  
 The land to the north continues broken, draining to  
 the east into the San Pedro River.  
 T. 6 S., R. 15 E. contains much good grazing land,  
 but little land suitable for agriculture.  
 There is no water or timber on or near the surveyed  
 line. The formation is in general a granite gravel  
 or conglomerate, with outcroppings of syenite or  
 porphyry in places. No indications of a mineral  
 character noted.

Sept. 3, 1913.

W. H. E.

Latitudes, Departures, and closing errors.

Line Designated	True bearing.	Dist.	Latitudes.		Departures.	
			N.	S.	E.	W.
		Chs.	Chs.	Chs.	Chs.	Chs.
South Boundary,	N. 89°59' W.	412.18	0.12			412.18
West Boundary,	North,	480.00	480.00			
North Boundary,	S. 89°57' E.	405.58		0.35	405.58	
	South,	3.12		3.12		
East Boundary,	S. 0°17' E.	39.83		39.83	0.20	
	S. 0°12' E.	39.90		39.90	0.14	
	S. 0°48' E.	397.15		397.11	5.56	
Convergency,					0.40	
Totals,			480.12	480.31	411.88	412.18
				480.12		412.88
Error in Lat.,			-0.19			
Error in Dep.,			-0.30			

Sept. 3, 1913.

J.B.W. & W.H.E.

Chains.	
	Sept. 21, 1913. J.B.W. At 7h a.m., l.m.t., at the cor. of Tps. 13 & 14 S., Rs. 9 & 10 E., which is a granite stone 10x8x6 ins. above ground, marked and witnessed as described by the Surveyor General, lat. $32^{\circ}15'33''$ N., Long. $111^{\circ}22'02''$ W., I set off $0^{\circ}50\frac{1}{2}'$ N. on the decl. arc, and $32^{\circ}15\frac{1}{2}'$ N. on the lat. arc, and determine a meridian with the solar. Thence I run, as per instructions, West, bet. secs. 1 & 36. Over rolling land, through dense brush, paloverde, mesquite, catclaw, greasewood, cacti. Var. $13^{\circ}50'$ E.
6.00	Wash, 30 lks. wide, course N.
40.00	Set an iron post 3 ft. long, 1 in. in diam. 26 ins. in the ground for $\frac{1}{4}$ sec. cor., marked on brass cap, 1913 on S. rim, $\frac{1}{4}$ S 36 in N., and S 1 in S. half; from which, A mesquite tree 10 ins. diam. brs. N. $76\frac{1}{2}^{\circ}$ W. 64 lks. dist., marked $\frac{1}{4}$ S 36 B T. A catclaw tree 7 ins. diam. brs. S. $67\frac{1}{2}^{\circ}$ W. 122 lks. dist., marked $\frac{1}{4}$ S 1 B T.
42.50	Wash, 30 lks. wide, course N.
61.50	Road, brs. NW. & SE.
80.00	Set an iron post 3 ft. long, 3 ins. in diam. 24 ins. in the ground for cor. of secs. 1, 2, 35 & 36, marked on brass cap, T 13 S in N., T 14 S in S., and R 9 E in W. half, 1913 on S. rim, S 35 in NW., S 36 in NE., S 1 in SE., and S 2 in SW. quad.; from which, A mesquite tree 8 ins. diam. brs. N. $40^{\circ}$ E. 206 lks. dist., marked T 13 S R 9 E S 36 B T. A mesquite tree 6 ins. diam. brs. S. $55^{\circ}$ E. 172 lks. dist., marked T 14 S R 9 E S 1 B T. A mesquite tree 4 ins. diam. brs. S. $54^{\circ}$ W. 87 lks. dist., marked T 14 S R 9 E S 2 B T. A mesquite tree 4 ins. diam. brs. N. $73\frac{3}{4}^{\circ}$ W. 89 lks. dist., marked T 13 S R 9 E S 35 B T.
	Land, rolling, broken. Soil, 3rd rate, gravelly, dry. Mesquite, paloverde, catclaw, cacti, fair grass.
	West, bet. secs. 2 & 35. Over rolling, broken land, through dense brush.
9.00	Wash, 20 lks. wide, course N.
25.00	Wash, 15 lks. wide, course N.
38.50	Wash, 30 lks. wide, course N.
39.65	As cor. point will fall in wash, at 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., marked on brass cap, W C $\frac{1}{4}$ W. of centre, 1913 on S. rim, S 35 in NE., and S 2 in SE. quad.; from which, A catclaw tree 6 ins. diam. brs. N. $49\frac{3}{4}^{\circ}$ E. 116 lks. dist., marked $\frac{1}{4}$ S 35 W C B T. A paloverde tree 8 ins. diam. brs. S. $5^{\circ}$ W. 138 lks. dist., marked $\frac{1}{4}$ S 2 W C B T.
40.00	Wash, 40 lks. wide, course N. True point for $\frac{1}{4}$ sec. cor.
51.00	Wash, 30 lks. wide, course NNW.
62.00	Wash, 20 lks. wide, course N.
70.00	Wash, 30 lks. wide, course N.
80.00	Set an iron post 3 ft. long, 3 ins. in diam. 24 ins. in the ground for cor. of secs. 2, 3, 34 & 35, marked on brass cap, T 13 S in N., T 14 S in S., and R 9 E in W. half, 1913 on S. rim, S 34 in NW., S 35 in NE., S 2 in SE., and S 3 in SW. quad.; from which,



## Chains.

- A paloverde tree 8 ins.diam.brs.N.27°E. 80 lks. dist.,  
marked T 13 S R 9 E S 35 B T.  
A paloverde tree 10 ins.diam.brs.S.7°E. 45 lks. dist.,  
marked T 14 S R 9 E S 2 B T.  
A paloverde tree 8 ins.diam.brs.S.48½°W.85 lks. dist.,  
marked T 14 S R 9 E S 3 B T.  
A paloverde tree 6 ins.diam.brs.N.32°W. 87 lks. dist.,  
marked T 13 S R 9 E S 34 B T.

Land, broken, rolling.

Soil, 3rd rate, sandy, gravelly, loose, dry.

Paloverde, mesquite, catclaw, greasewood, cacti, fair grass.

West, bet. secs. 3 & 34.

Over rolling, broken land, through dense brush.

15.00 Wash, 30 lks. wide, course N.

35.00 Wash, 30 lks. wide, course NNE.

40.00 Set an iron post 3 ft. long, 1 in. in diam. 26 ins. in  
the ground for ¼ sec. cor., marked on brass cap, 1913 on  
S. rim, ¼ S 34 in N., and  
S 3 in S. half; from which,

A paloverde tree 7 ins.diam.brs.N.50°W. 150 lks. dist.,  
marked ¼ S 34 B T.

A paloverde tree 9 ins.diam.brs.S.49¾°W. 37 lks. dist.,  
marked ¼ S 3 B T.

46.70 Wash, 30 lks. wide, course NNE.

53.60 Wash, 60 lks. wide, course NE.

80.00 Set an iron post 3 ft. long, 3 ins. in diam. 24 ins. in  
the ground for cor. of secs. 3, 4, 33 & 34, marked on  
brass cap, T 13 S in N.,  
T 14 S in S., and  
R 9 E in W. half, 1913 on S. rim,  
S 33 in NW.,  
S 34 in NE.,  
S 3 in SE., and  
S 4 in SW. quad.; from which,

A paloverde tree 8 ins.diam.brs.N.20¼°E.190 lks. dist.,  
marked T 13 S R 9 E S 34 B T.

A paloverde tree 9 ins.diam.brs.S.36¼°E. 78 lks. dist.,  
marked T 14 S R 9 E S 3 B T.

A paloverde tree 4 ins.diam.brs.S.41°W. 170 lks. dist.,  
marked T 14 S R 9 E S 4 B T.

A paloverde tree 6 ins.diam.brs.N.58°W. 126 lks. dist.,  
marked T 13 S R 9 E S 33 B T.

Land, broken, heavily rolling.

Soil, 3rd rate, gravelly, dry.

Mesquite, paloverde, ironwood, greasewood, catclaw,  
cacti, sparse grass.

At this cor., at noon, I set off 0°44' N. on the decl.  
arc, and observe the sun on the meridian.

The resulting lat. is 32°16' N.

South Boundary of T. 13 S., R. 9 E.

Chains.	West, bet. secs. 4 & 33.
11.00	Over heavily rolling, broken land, through dense brush.
40.00	Road, brs. NE. & SW., asc. grad. Set an iron post 3 ft. long, 1 in. in diam. 26 ins. in the ground for $\frac{1}{4}$ sec. cor., marked on brass cap, 1913 on S. rim, $\frac{1}{4}$ S 33 in N., and S 4 in S. half; from which,
	A paloverde tree 14 ins. diam. brs. S. 69° E. 68 lks. dist., marked $\frac{1}{4}$ S 4 B T.
	A paloverde tree 12 ins. diam. brs. N. 29° W. 76 lks. dist., marked $\frac{1}{4}$ S 33 B T.
55.00	Asc.
78.00	Top of dividing ridge, in saddle, brs. N. & S., desc.
80.00	Set an iron post 3 ft. long, 3 ins. in diam. 24 ins. in the ground for cor. of secs. 4, 5, 32 & 33, marked on brass cap, T 13 S in N., T 14 S in S., and R 9 E in W. half, 1913 on S. rim, S 32 in NW., S 33 in NE., S 4 in SE., and S 5 in SW. quad.; from which,
	A paloverde tree 6 ins. diam. brs. N. 39° E. 78 lks. dist., marked T 13 S R 9 E S 33 B T.
	A paloverde tree 4 ins. diam. brs. S. 76° E. 35 lks. dist., marked T 14 S R 9 E S 4 B T.
	A paloverde tree 6 ins. diam. brs. S. 31° W. 21 lks. dist., marked T 14 S R 9 E S 5 B T.
	A paloverde tree 6 ins. diam. brs. N. 30° W. 36 lks. dist., marked T 13 S R 9 E S 32 B T.
	Land, broken, mts.
	Soil, 3rd rate, gravelly, dry, loose, stony.
	Paloverde, mesquite, catclaw, cacti, fair grass.
	<hr/>
	West, bet. secs. 5 & 32.
5.00	Over mts. land, desc. through dense brush.
22.50	Gulch, 40 lks. wide, course WNW.
33.70	Gulch, 50 lks. wide, course SW.
40.00	Gulch, 40 lks. wide, course SW.
	Set an iron post 3 ft. long, 1 in. in diam. 26 ins. in the ground for $\frac{1}{4}$ sec. cor., marked on brass cap, 1913 on S. rim, $\frac{1}{4}$ S 32 in N., and S 5 in S. half; from which,
	A paloverde tree 7 ins. diam. brs. N. 17° W. 60 lks. dist., marked $\frac{1}{4}$ S 32 B T.
	A paloverde tree 8 ins. diam. brs. S. 84° E. 71 lks. dist., marked $\frac{1}{4}$ S 5 B T.
76.40	Wash, 30 lks. wide, course SW.
80.00	Set an iron post 3 ft. long, 3 ins. in diam. 24 ins. in the ground for cor. of secs. 5, 6, 31 & 32, marked on brass cap, T 13 S in N., T 14 S in S., and R 9 E in W. half, 1913 on S. rim, S 31 in NW., S 32 in NE., S 5 in SE., and S 6 in SW. quad.; from which,
	A paloverde tree 12 ins. diam. brs. N. 63° E. 50 lks. dist., marked T 13 S R 9 E S 32 B T.
	A paloverde tree 12 ins. diam. brs. S. 7 $\frac{1}{2}$ ° E. 57 lks. dist., marked T 14 S R 9 E S 5 B T.
	A paloverde tree 14 ins. diam. brs. S. 24° W. 54 lks. dist., marked T 14 S R 9 E S 6 B T.
	A paloverde tree 10 ins. diam. brs. N. 55° W. 66 lks. dist., marked T 13 S R 9 E S 31 B T.
	Land, mts., broken.
	Soil, 3rd rate, stony, gravelly, dry.
	Paloverde, mesquite, greasewood, cacti, fair grass.

Chains.

West, bet. secs. 6 &amp; 31.

- 5.00 Over broken, heavily rolling land, through dense brush.  
 Gulch, 30 lks. wide, course SSW., asc.  
 20.00 Ridge, brs. S. & N., desc.  
 30.00 Desc. grad. on mesa, extends to S. & W.  
 40.00 Set an iron post 3 ft. long, 1 in. in diam. 26 ins. in  
 the ground for  $\frac{1}{4}$  sec. cor., marked on brass cap, 1913 on  
 S. rim,  $\frac{1}{4}$  S 31 in N., and  
 S 6 in S. half; from which,  
 An ironwood tree 10 ins. diam. brs. N.  $7^{\circ}$  W. 19 lks. dist.,  
 marked  $\frac{1}{4}$  S 31 B T.  
 A paloverde tree 10 ins. diam. brs. S.  $50^{\circ}$  E. 85 lks. dist.,  
 marked  $\frac{1}{4}$  S 6 B T.  
 \* 78.00 Set temp. cor. of Tps. 13 & 14 S., Rs. 8 & 9 E., at the  
 theoretic distance. Sept. 21, 1913.

J.B.W.

J.B.W.

Sept. 22, 1913.

At 7h a.m., l.m.t., at the cor. of Tps. 12 & 13 S.,  
 Rs. 8 & 9 E., heretofore described in book "A",  
 I set off  $0^{\circ}27'$  N. on the decl. arc, and  $32^{\circ}21'$  N. on  
 the lat. arc, and determine a meridian with the solar.  
 thence I project a line due South, as per instructions,  
 to an intersection with my East and West line on S.  
 bdy. of the Tp.,

I intersect said line at

\* 77.90

On line west bet. secs. 6 & 31, at which point I  
 Set an iron post 3 ft. long, 3 ins. in diam. 24 ins. in  
 the ground for cor. of Tps. 13 & 14 S., Rs. 8 & 9 E.,  
 marked on brass cap, 1913 on S. rim,  
 T 13 S in N.,  
 T 14 S in S.,  
 R 9 E in E., and  
 R 8 E in W. half,  
 S 36 in NW.,  
 S 31 in NE.,  
 S 6 in SE., and  
 S 1 in SW. quad.; from which,  
 An ironwood tree 14 ins. diam. brs. N.  $43\frac{1}{2}^{\circ}$  E. 50 lks. dist.,  
 marked T 13 S R 9 E S 31 B T.  
 A paloverde tree 8 ins. diam. brs. S.  $8\frac{1}{2}^{\circ}$  E. 36 lks. dist.,  
 marked T 14 S R 9 E S 6 B T.  
 A paloverde tree 8 ins. diam. brs. S.  $37^{\circ}$  W. 60 lks. dist.,  
 marked T 14 S R 8 E S 1 B T.  
 A paloverde tree 12 ins. diam. brs. N.  $41^{\circ}$  W. 108 lks. dist.,  
 marked T 13 S R 8 E S 36 B T.  
 A high sharp peak in Silver Bell Mts. brs. N.  $0^{\circ}35'$  E.  
 North peak of Roskrige Range brs. S.  $20^{\circ}37'$  W.  
 Black Mountain brs. N.  $73^{\circ}38'$  W.  
 Magnetic variation  $13^{\circ}50'$  E.

Line bet. secs. 6 & 31, S. bdy. of T. 13 S., R. 9 E.  
 Land, rolling, broken.  
 Soil, 3rd rate, sandy, gravelly, dry, loose.  
 Paloverde, mesquite, ironwood, cacti, fair grass.

## General Description.

The S. bdy. of T. 13 S., R. 9 E. runs over rolling,  
 broken land, covered in general with a dense growth  
 of paloverde, ironwood, greasewood, sahuaro and other  
 cacti. The soil is a sedimentary conglomerate  
 from the erosion and decomposition of volcanic or  
 igneous stone, and is of little value.  
 There is no water along or near the line, nor any  
 timber of commercial value.

The land to the south rises over a succession of broken  
 hills and ridges of volcanic origin, trending to the  
 South and East.

September 22, 1913.

J.B.W.

Chains.	Sept. 22, 1913, (Continued.) From the cor. of Tps. 13 & 14 S., Rs. 8 & 9 E., just established by me, and hereinbefore described, I run, North, on a true line bet. secs. 31 & 36. Over rolling, broken land, through dense brush, cacti, paloverde, mesquite, ironwood, catclaw, greasewood, fair native grass. Var. 13°50' E.
17.90	Wash, 50 lks. wide, course WSW.
27.80	Wash, 15 lks. wide, course WSW.
40.00	Set an iron post 3 ft. long, 1 in. in diam. 26 ins. in the ground for $\frac{1}{4}$ sec. cor., marked on brass cap, 1913 on S. rim, $\frac{1}{4}$ S 36 in W., and S 31 in E. half; from which, A paloverde tree 14 ins. diam. brs. S. 88° E. 86 lks. dist., marked $\frac{1}{4}$ S 31 B T. No other tree available, pits impracticable. Raise a mound of stone 2 ft. base, 1 $\frac{1}{2}$ ft. high W. of cor.
69.00	Gulch, 10 lks. wide, course WSW., asc. grad.
80.00	Set an iron post 3 ft. long, 3 ins. in diam. 24 ins. in the ground for cor. of secs. 25, 30, 31 & 36, marked on brass cap, T 13 S in N. half, 1913 on S. rim, R 8 E S 25 in NW., R 9 E S 30 in NE., S 31 in SE., and S 36 in SW. quad.; No trees of sufficient size in limits, pits impracticable. Raise a mound of stone 2 ft. base, 1 $\frac{1}{2}$ ft. high W. of cor. Land, broken, rolling. Soil, 3rd rate, gravelly, dry, loose. Paloverde, ironwood, mesquite, greasewood, fair grass.
	North, bet. secs. 25 & 30. Over heavily rolling land, through dense greasewood, paloverde, cacti.
6.60	Gulch, 30 lks. wide, course W., asc.
20.00	Spur, brs. W. & E., desc.
30.00	Gulch, 30 lks. wide, course WSW., asc.
40.00	Set an iron post 3 ft. long, 1 in. in diam. 26 ins. in the ground for $\frac{1}{4}$ sec. cor., marked on brass cap, 1913 on S. rim, $\frac{1}{4}$ S 25 in W., and S 30 in E. half; from which, A paloverde tree 8 ins. diam. brs. N. 35° E. 28 lks. dist., marked $\frac{1}{4}$ S 30 B T. A paloverde tree 10 ins. diam. brs. N. 69° W. 69 lks. dist., marked $\frac{1}{4}$ S 25 B T.
60.00	Ridge, brs. W. & E., desc.
72.00	Gulch, 30 lks. wide, course WNW.
80.00	Set an iron post 3 ft. long, 3 ins. in diam. 24 ins. in the ground for cor. of secs. 19, 24, 25 & 30, marked on brass cap, T 13 S in N. half, 1913 on S. rim, R 8 E S 24 in NW., R 9 E S 19 in NE., S 30 in SE., and S 25 in SW. quad.; from which, A paloverde tree 9 ins. diam. brs. N. 27° E. 109 lks. dist., marked T 13 S R 9 E S 19 B T. A paloverde tree 8 ins. diam. brs. S. 30° E. 31 lks. dist., marked T 13 S R 9 E S 30 B T. A paloverde tree 9 ins. diam. brs. S. 21° W. 35 lks. dist., marked T 13 S R 8 E S 25 B T. A paloverde tree 8 ins. diam. brs. N. 81° W. 45 lks. dist., marked T 13 S R 8 E S 24 B T.
	Land, broken, rolling. Soil, 3rd rate, gravelly, dry, loose. Paloverde, ironwood, greasewood, cacti, good native grass. At this cor., at noon, I set off 0°20 $\frac{1}{2}$ ' N. on the decl. arc, and observe the sun on the meridian. The resulting lat. is 32°17 $\frac{1}{2}$ ' N.

Chains.	North, bet. secs. 19 & 24. Over heavily rolling land, through dense brush.
1.60	Gulch, 20 lks. wide, course W., asc.
13.00	Ridge, brs. E. & W., desc.
25.00	Gulch, 20 lks. wide, course WNW.
40.00	Set an iron post 3 ft. long, 1 in. in diam. 26 ins. in the ground for $\frac{1}{4}$ sec. cor., marked on brass cap, 1913 on S. rim, $\frac{1}{4}$ S 24 in W., and S 19 in E. half; from which, A paloverde tree 10 ins. diam. brs. N. 17° E. 77 lks. dist., marked $\frac{1}{4}$ S 19 B T. A paloverde tree 14 ins. diam. brs. N. 1° W. 152 lks. dist., marked $\frac{1}{4}$ S 24 B T.
62.30	Road, brs. NE. & SW.
80.00	Set an iron post 3 ft. long, 3 ins. in diam. 24 ins. in the ground for cor. of secs. 13, 18, 19 & 24, marked on brass cap, T 13 S in N. half, 1913 on S. rim, R 8 E S 18 in NW., R 9 E S 18 in NE., S 19 in SE., and S 24 in SW. quad.; from which, A mesquite tree 10 ins. diam. brs. N. 46° E. 48 lks. dist., marked T 13 S R 9 E S 18 B T. A mesquite tree 10 ins. diam. brs. S. 59° E. 137 lks. dist., marked T 13 S R 9 E S 19 B T. A paloverde tree 9 ins. diam. brs. S. 66° W. 183 lks. dist., marked T 13 S R 8 E S 24 B T. A paloverde tree 9 ins. diam. brs. N. 89 $\frac{1}{2}$ ° W. 137 lks. dist., marked T 13 S R 8 E S 23 B T.
	Land, broken, rolling. Soil, 3rd rate, gravelly, sandy, loose, dry. Paloverde, mesquite, cacti, fair grass.
	North, bet. secs. 13 & 18. Over gently rolling land, through dense brush.
40.00	Set an iron post 3 ft. long, 1 in. in diam. 26 ins. in the ground for $\frac{1}{4}$ sec. cor., marked on brass cap, 1913 on S. rim, $\frac{1}{4}$ S 13 in W., and S 18 in S. half; from which, A paloverde tree 8 ins. diam. brs. S. 29° E. 17 lks. dist., marked $\frac{1}{4}$ S 18 B T. A paloverde tree 15 ins. diam. brs. S. 54° W. 47 lks. dist., marked $\frac{1}{4}$ S 13 B T.
47.00	Low pass, brs. E. & W., desc. gently.
80.00	Set an iron post 3 ft. long, 3 ins. in diam. 24 ins. in the ground for cor. of secs. 7, 12, 13 & 18, marked on brass cap, T 13 S in N. half, 1913 on S. rim, R 8 E S 12 in NW., R 9 E S 7 in NE., S 18 in SE., and S 13 in SW. quad.; no bearings available, 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 W. of cor.
	Land, rolling. Soil, 3rd rate, sandy, loose, gravelly, dry. Mesquite, paloverde, greasewood, cacti, fair grass.

Chains.

North, bet. secs. 7 & 12.  
 Over gently rolling land, through dense brush.  
 9.10 Road, brs. NW. & SE.  
 40.00 Set an iron post 3 ft. long, 1 in. in diam. 26 ins. in the ground for  $\frac{1}{4}$  sec. cor., marked on brass cap, 1913 on S. rim,  $\frac{1}{4}$  S 12 in W., and S 7 in E. half; from which,  
 A paloverde tree 10 ins. diam. brs. N.  $5\frac{1}{2}^{\circ}$  E. 61 lks. dist., marked  $\frac{1}{4}$  S 7 B T.  
 A paloverde tree 6 ins. diam. brs. N.  $46^{\circ}$  W. 125 lks. dist., marked  $\frac{1}{4}$  S 12 B T.  
 68.20 Road, brs. WNW. & ESE., asc. grad.  
 80.00 Set an iron post 3 ft. long, 3 ins. in diam. 24 ins. in the ground for cor. of secs. 1, 6, 7 & 12, marked on brass cap, T 13 S in N. half, 1913 on S. rim, R 8 E S 1 in NW., R 9 E S 6 in NE., S 7 in SE., and S 12 in SW. quad.; from which,  
 A paloverde tree 6 ins. diam. brs. N.  $69^{\circ}$  E. 67 lks. dist., marked T 13 S R 9 E S 6 B T.  
 A paloverde tree 4 ins. diam. brs. S.  $64^{\circ}$  E. 163 lks. dist., marked T 13 S R 9 E S 7 B T.  
 A paloverde tree 4 ins. diam. brs. S.  $5\frac{1}{2}^{\circ}$  W. 41 lks. dist., marked T 13 S R 8 E S 12 B T.  
 A paloverde tree 6 ins. diam. brs. N.  $44^{\circ}$  W. 40 lks. dist., marked T 13 S R 8 E S 1 B T.  
 Land, rolling.  
 Soil, 3rd rate, sandy, gravelly, loose, dry.  
 Paloverde, greasewood, mesquite, cacti, fair grass.

North, bet. secs. 1 & 6.  
 Over mts. land, asc. steep rocky SW. slope.  
 5.00 Rocky hill, brs. NW. & SE., desc. steep.  
 28.00 Foot, brs. NW. & SE., thence over rolling land, through dense brush.  
 40.00 Set an iron post 3 ft. long, 1 in. in diam. 26 ins. in the ground for  $\frac{1}{4}$  sec. cor., marked on brass cap, 1913 on S. rim,  $\frac{1}{4}$  S 1 in W., and S 6 in E. half; from which,  
 A paloverde tree 6 ins. diam. brs. N.  $4\frac{1}{4}^{\circ}$  E. 60 lks. dist., marked  $\frac{1}{4}$  S 6 B T.  
 A paloverde tree 6 ins. diam. brs. N.  $31^{\circ}$  W. 92 lks. dist., marked  $\frac{1}{4}$  S 1 B T.  
 43.20 Wash, 20 lks. wide, course E.  
 54.70 Road, brs. WNW. & ESE.  
 79.88 To orig. cor. of Tps. 12 & 13 S., Rs. 8 & 9 E., as heretofore described in book "A".  
 Land, mts., rolling.  
 Soil, 2nd & 3rd rate, sandy, stony, gravelly, dry.  
 Paloverde, mesquite, catclaw, cacti, greasewood, sparse native grass.

General Description.

The West bdy. of T. 13 S., R. 9 E. runs over broken, or heavily rolling land in the south portion, becoming smoother in the northern portion.  
 There is no water or timber along or near the line.  
 The land to the west is in general rolling or broken, descending gradually into the smooth valley of Santa Rosa Wash, which extends about 20 miles to the west, trending to the NE. & SW. The lands to the west should be subdivided, there being much good agricultural or grazing land in the valley to the west.

Sept. 22, 1913.

J. B. W.

Boundaries of T. 13 S., R. 9 E.

Latitudes, Departures and closing errors.

Line Designated.	True bearing.	Dist.	Latitudes.		Departures.	
			N.	S.	E.	W.
		Chs.	Chs.	Chs.	Chs.	Chs.
South Boundary,	West,	477.90	-----	-----	-----	477.90
West Boundary,	North,	479.88	479.88	-----	-----	-----
North Boundary,	N. 89°58'E.	477.25	0.28	-----	477.25	-----
East Boundary,	S. 0°02'E.	480.00	-----	480.00	0.28	-----
Convergency,			-----	-----	0.47	-----
Totals,-----			480.16	480.00	478.00	477.90
			480.00	-----	477.90	-----
Error in Latitude,--			0.16			
Error in Departure,-----					-0.10	

September 22, 1913.

J.B.W.

West Boundary of T. 11 S., R. 9 E.

Chains.

Oct. 5, 1913. J. B. W.

At 8h a.m., l.m.t., at the cor. of Tps. 11 & 12 S.,

Rs. 8 & 9 E., recently re-established by me, an iron post, as described in book "A", of re-surveys,

I set off 4°38' S. on the decl. arc, and 32°26' N. on the lat. arc, and determine a meridian with the solar.

Thence I run, as per instructions,

North, on W. bdy. of Tp., bet. secs. 31 & 36.

Var. 14°30' E.

Over heavily rolling, broken land, through dense paloverde, greasewood, cacti, mesquite, ironwood, fair grass.

5.30 Wash, 30 lks. wide, course SE.

14.20 Wash, 20 lks. wide, course E.

40.00 Set an iron post 3 ft. long, 1 in. in diam. 26 ins. in the ground for 1/4 sec. cor., marked on brass cap, 1913 on S. rim, 1/4 S 36 in W., and

S 31 in E. half; from which,

A paloverde tree 4 ins. diam. brs. N. 79 1/2° W. 79 lks. dist., marked 1/4 S 36 B T.

A paloverde tree 6 ins. diam. brs. N. 13 1/4° E. 210 lks. dist., marked 1/4 S 31 B T.

44.50 Wash, 20 lks. wide, course NE.

55.40 Wash, 40 lks. wide, course NE.

72.00 Wash, 10 lks. wide, course SE.

78.30 Road, brs. NE. & SW.

80.00 Set an iron post 3 ft. long, 3 ins. in diam. 24 ins. in the ground for cor. of secs. 25 30, 31 & 36, marked on brass cap, T 11 S in N. half, 1913 on S. rim,

R 8 E S 25 in NW.,

R 9 E S 30 in NE.,

S 31 in SE., and

S 36 in SW. quad.; from which,

A paloverde tree 6 ins. diam. brs. N. 60° E. 50 lks. dist., marked T 11 S R 9 E S 30 B T.

A paloverde tree 6 ins. diam. brs. S. 32 1/2° E. 97 lks. dist., marked T 11 S R 9 E S 31 B T.

A paloverde tree 6 ins. diam. brs. S. 24° W. 81 lks. dist., marked T 11 S R 8 E S 36 B T.

A paloverde tree 4 ins. diam. brs. N. 72° W. 196 lks. dist., marked T 11 S R 8 E S 25 B T.

Land, broken, rolling. Soil, 3rd rate, gravelly, dry. Paloverde, greasewood, fair grass, cacti.

North, bet. secs. 25 & 30.

Over rolling land, through dense brush.

2.00 Wash, 40 lks. wide, course ENE.

11.00 Wash, 10 lks. wide, course ESE.

29.00 Wash, 15 lks. wide, course E.

40.00 Set an iron post 3 ft. long, 1 in. in diam. 26 ins. in the ground for 1/4 sec. cor., marked on brass cap, 1913 on S. rim, 1/4 S 25 in W., and

S 30 in E. half; from which,

A paloverde tree 8 ins. diam. brs. S. 76° E. 91 lks. dist., marked 1/4 S 30 B T.

A paloverde tree 6 ins. diam. brs. S. 44 1/2° W. 110 lks. dist., marked 1/4 S 25 B T.

44.00 Wash, 10 lks. wide, course E.

53.60 Wash, 15 lks. wide, course E.

69.00 Wash, 20 lks. wide, course E., asc.

77.80 Ridge, brs. E. & W., desc.

80.00 Set an iron post 3 ft. long, 3 ins. in diam. 24 ins. in the ground for cor. of secs. 19, 24, 25 & 30, marked on brass cap, T 11 S in N. half, 1913 on S. rim,

R 8 E S 24 in NW.,

R 9 E S 19 in NE.,

S 30 in SE., and

S 25 in SW. quad.; from which,

An ironwood tree 6 ins. diam. brs. N. 49° E. 76 lks. dist., marked T 11 S R 9 E S 19 B T.

A paloverde tree 6 ins. diam. brs. S. 75° E. 34 lks. dist., marked T 11 S R 9 E S 30 B T.



## Chains.

An ironwood tree 6 ins. diam. brs. S.  $33\frac{1}{2}^{\circ}$  W. 141 lks. dist.,  
marked T 11 S R 8 E S 25 B T.  
A paloverde tree 6 ins. diam. brs. N.  $11\frac{1}{2}^{\circ}$  W. 31 lks. dist.,  
marked T 11 S R 8 E S 24 B T.  
Land, broken, heavily rolling. Soil, 3rd rate, gravelly.  
Paloverde, ironwood, greasewood, cacti, fair grass.

North, bet. secs. 19 & 24.

Over rolling, broken land, through dense brush.  
11.20 Wash, 20 lks. wide, course NE.  
23.50 Wash, 14 lks. wide, course NNE.  
40.00 Set an iron post 3 ft. long, 1 in. in diam. 26 ins. in  
the ground for  $\frac{1}{4}$  sec. cor., marked on brass cap, 1913 on  
S. rim,  $\frac{1}{4}$  S 24 in W., and  
S 19 in E. half from which,  
A paloverde tree 8 ins. diam. brs. S.  $72^{\circ}$  E. 32 lks. dist.,  
marked  $\frac{1}{4}$  S 19 B T.  
A paloverde tree 10 ins. diam. brs. N.  $66^{\circ}$  W. 42 lks. dist.,  
marked  $\frac{1}{4}$  S 24 B T.  
80.00 Set an iron post 3 ft. long, 3 ins. in diam. 24 ins. in  
the ground for cor. of secs. 13, 18, 19 & 24, marked on  
brass cap, T 11 S in N. half, 1913 on S. rim,  
R 8 E S 13 in NW.,  
R 9 E S 18 in NE.,  
S 19 in SE., and  
S 24 in SW. quad.; from which,  
A paloverde tree 14 ins. diam. brs. N.  $74^{\circ}$  E. 134 lks. dist.,  
marked T 11 S R 9 E S 18 B T.  
A paloverde tree 6 ins. diam. brs. S.  $26\frac{1}{2}^{\circ}$  E. 63 lks. dist.,  
marked T 11 S R 9 E S 19 B T.  
A paloverde tree 6 ins. diam. brs. S.  $60^{\circ}$  W. 26 lks. dist.,  
marked T 11 S R 8 E S 24 B T.  
A paloverde tree 10 ins. diam. brs. N.  $43^{\circ}$  W. 83 lks. dist.,  
marked T 11 S R 8 E S 13 B T.  
Land, broken, rolling.  
Soil, 3rd rate, gravelly, dry.  
Mesquite, paloverde, greasewood, cacti, fair grass.  
At this cor., at noon, I set off  $4^{\circ}42\frac{1}{2}'$  S. on the decl. a  
arc, and observe the sun on the meridian.  
The resulting lat. is  $32^{\circ}28'$  N.

North, bet. secs. 13 & 18.

Over rolling land, through dense brush.  
8.60 Road, Silver Bell to Tucson, brs. WNW. & ESE.  
8.80 On N. side of road,  
Set a mesquite post 6 ins. diam., flattened, 20 ins. in  
the ground for witness point, marked W P, T 11 S on S.,  
R 8 E on W., and R 9 E on E. faces. Post 2 ft. above ground.  
29.00 Asc. steep.  
35.00 Top of rocky hill, brs. E. & W., desc. steep.  
40.00 Set an iron post 3 ft. long, 1 in. in diam. 26 ins. in  
the ground for  $\frac{1}{4}$  sec. cor., marked on brass cap, 1913 on  
S. rim,  $\frac{1}{4}$  S 13 in W., and S 18 in E. half; from which,  
A paloverde tree 7 ins. diam. brs. S.  $86^{\circ}$  W. 22 lks. dist.,  
marked  $\frac{1}{4}$  S 13 B T.  
A paloverde tree 8 ins. diam. brs. N.  $67\frac{1}{2}^{\circ}$  E. 20 lks. dist.,  
marked  $\frac{1}{4}$  S 18 B T.  
44.00 Foot of main slope, brs. E. & W., desc. grad.  
77.00 Wash, 20 lks. wide, course WNW.  
79.50 Wash, 30 lks. wide, course W.  
80.00 Set an iron post 3 ft. long, 3 ins. in diam. 24 ins. in  
the ground for cor. of secs. 7, 12, 13 & 18, marked on  
brass cap, T 11 S in N. half, 1913 on S. rim,  
R 8 E S 12 in NW.,  
R 9 E S 17 in NE.,  
S 18 in SE., and  
S 13 in SW. quad.; from which,

Chains.

A paloverde tree 4 ins.diam.brs.N.81°E. 75 lks. dist.,  
marked T 11 S R 9 E S 7 B T.

A paloverde tree 4 ins.diam.brs.S.64°E. 82 lks. dist.,  
marked T 11 S R 9 E S 18 B T.

A paloverde tree 9 ins.diam.brs.S.50°W. 63 lks. dist.,  
marked T 11 S R 8 E S 13 B T.

A paloverde tree 14 ins.diam.brs.N.78½°W.210 lks.dist.,  
marked T 11 S R 8 E S 12 B T.

Land, rolling, broken.  
Soil, 3rd rate, gravelly, dry.  
Paloverde, mesquite, cacti, greasewood, fair grass.

North, bet. secs. 7 & 12.  
Over rolling land, through dense brush.

39.50 Wash, 20 lks. wide, course W.

40.00 Set an iron post 3 ft. long, 1 in. in diam".26 ins. in  
the ground for ¼ sec. cor., marked on brass cap, 1913 on  
S. rim, ¼ S 12 in W., and  
S 7 in E. half; from which,  
A paloverde tree 14 ins.diam.brs.S.59°E. 12 lks. dist.,  
marked ¼ S 7 B T.

A paloverde tree 8 ins.diam.brs.S.36°W. 53 lks. dist.,  
marked ¼ S 12 B T.

43.00 Wash, 30 lks. wide, course W., asc.

61.00 Ridge, brs. E. & W., desc.

71.00 Gulch, 10 lks. wide, course ENE.

80.00 Set an iron post 3 ft. long, 3 ins. in diam. 24 ins. in  
the ground for cor. of secs. 1, 6, 7 & 12,marked on  
brass cap, T 11 S in N. half, 1913 on S. rim,  
R 8 E S 1 in NW.,  
R 9 E S 6 in NE.,  
S 7 in SE., and  
S 12 in SW. quad.; from which,  
A paloverde tree 10 ins.diam.brs.N.38°E. 15 lks. dist.,  
marked T 11 S R 9 E S 6 B T.

A paloverde tree 8 ins.diam.brs.S.64°E. 86 lks. dist.,  
marked T 11 S R 9 E S 7 B T.

A paloverde tree 7 ins.diam.brs.S.69°W. 56 lks. dist.,  
marked T 11 S R 8 E S 12 B T.

A paloverde tree 8 ins.diam.brs.N.16°W. 69 lks. dist.,  
marked T 11 S R 8 E S 1 B T.

Land, broken, rolling.  
Soil, 3rd rate, gravelly, dry, loose.  
Paloverde, mesquite, greasewood, cacti, fair grass.

North, bet. secs. 1 & 6.  
Over rolling land, through dense brush.

15.00 Wash, 30 lks. wide, course NE.

32.50 Wash, 20 lks. wide, course NW. J.B.W.

35.00 Leave point on line. Oct. 5, 1913.

J.B.W. -----  
Oct. 13, 1913.

In connection with re-survey of 2nd Std. par S., at  
35.10 Intersect 2nd Std. Par. S., whence  
Std. ¼ sec. cor. on S. bdy. of Sec. 36, T. 10 S.,  
R. 8 E. brs. West, 1.85 chs. dist., an iron post,  
re-established by me as described in book "B".  
AT POINT OF INTERSECTION  
Set an iron post 3 ft. long, 3 ins. in diam. 24 ins. in  
the ground for closing cor. of Tps. 11 S.,Rs. 8 & 9 E.,  
marked on brass cap, 1913 on S. rim,  
C C, S. of centre,  
T 10 S, R 8 E S 36, R 9 E S 31, in N., and  
T 11 S in S. half,  
R 8 E S 1 in SW., and  
R 9 E S 6 in SE. quad.; from which,  
A paloverde tree 10 ins.diam.brs.S.54°E. 69 lks. dist.,  
marked T 11 S R 9 E S 6 C C B T.

A paloverde tree 12 ins.diam.brs.S.23½°W.75 lks. dist.,  
marked T 11 S R 8 E S 1 C C B T.

Land, broken, rolling. Soil, 3rd rate, gravelly, dry.  
Paloverde, mesquite, greasewood, cacti, sparse grass.  
J.B.W. Oct. 13, 1913.

West Boundary of T. 11 S., R. 9 E.

General Description.

The West Boundary of T. 11 S., R. 9 E., as surveyed by me runs over heavily rolling broken land, covered with dense paloverde, greasewood, cacti, mesquite, and other desert shrubs.

There is no water or timber on or near the line. The land to the west lies along the North end of the Silver Bell Mountains, being heavily rolling, broken, or mountainous.

J.B.W.

Boundaries of T. 11 S., R. 9 E.  
Latitudes, departures, and closing errors.

Line Designated.	True bearing.	Dist.	Latitudes.		Departures.	
			N.	S.	E.	W.
		Chs.	Chs.	Chs.	Chs.	Chs.
South Boundary,	N. 89°43' W.	477.60	2.37	-----	-----	477.60
West Boundary,	North,	435.10	435.10	-----	-----	-----
North Boundary, (2nd Std. Par. South)	East,	476.37	-----	-----	476.37	-----
East Boundary,	South,	436.04	-----	436.04	-----	-----
Convergency,	-----	-----	-----	-----	0.42	-----
Totals, -----			437.47	436.04	476.79	477.60
			436.04	-----	-----	476.79
Error in Lat., -----			1.43	Error in Dep., --	0.81	

Oct. 13, 1913.

J.B.W.

Chains.

J. B. W.

Oct. 16, 1913.  
 At 7h 30m a.m., l.m.t., at the Std. cor. of T. 10 S.,  
 R. 8 E., recently reestablished by me, and described in  
 book "B", lat. 32°30'25" N., long. 111°32'50" W.  
 I set off 8°46' S. on the decl. arc, and 32°30½' N. on  
 the lat. arc, and determine a meridian with the solar.  
 (Since the retracements of E. & N. bdrs. of this Tp.  
 indicate that the west bdy. of the Tp. can be  
 run within limits of alinement,)

Thence I run,  
 North, on a random line, on W. bdy. of Tp., setting  
 temp. corners at intervals of 40 and 50 chs.

At 5 miles, 78.19 chs., the cor. of Tps. 9 & 10 S.,  
 Rs. 7 & 8 E. brs. East, 278 lks. dist., as recently  
 re-established by W. H. Elliott, and described in  
 book "A"

The course of my true line is therefore N. 0°20' E.  
 Therefore from the above cor., I run,

S. 0°20' W. on a true line, on West bdy. of sec. 6.

Over nearly level plain, through scattering greasewood,  
 setting cors. common to 3 secs. in R. 8 E. only.

38.19 Set an iron post 3 ft. long, 1 in. in diam. 26 ins. in  
 the ground for ¼ sec. cor., marked on brass cap, 1913 on  
 S. rim, ¼ S 6 in E. half; no bearings available.

Dig pits 18x18x12 ins. N. & S. of cor. 3 ft. dist., and  
 raise a mound of earth 3½ ft. base, 1½ ft. high E. of cor.

78.19 Set an iron post 3 ft. long, 3 ins. in diam. 24 ins. in  
 the ground for cor. of secs. 6 & 7, marked on  
 brass cap, T 10 S in N., and

S 1, S 12, R 7 E, in W. half, 1913 on S. rim,

S 6 in NE., and

S 7, R 8 E, in SE. quad.;

no bearings available.

Dig pits 24x24x12 ins. in each sec. 6 ft. dist., and  
 raise a mound of earth 4 ft. base 2 ft. high E. of cor.

Land, rolling, level.

Soil, 2nd & 3rd rate, sandy, loamy, loose, dry.

Greasewood, cacti, scrub mesquite, fair grass.

At this cor., at noon, I set off 8°52' S. on the decl.  
 arc, and observe the sun on the meridian.

The resulting lat. is 32°34' N.

S. 0°20' W., on West bdy. of sec. 7.

Over nearly level land, through scattering greasewood  
 Road, bears E. and W. Land, through scattering greasewood.

9.70 40.00 Set an iron post 3 ft. long, 1 in. in diam. 26 ins. in  
 the ground for ¼ sec. cor., marked on brass cap, 1913 on  
 S. rim, ¼ S 7 in E. half; no bearings available.

Dig pits 18x18x12 ins. N. & S. of cor. 3 ft. dist., and  
 raise a mound of earth 3½ ft. base, 1½ ft. high E. of cor.

9.70 80.00 Soil, 2nd rate, sandy, loamy, loose, dry.

80.00 Set an iron post 3 ft. long, 3 ins. in diam. 24 ins. in  
 the ground for cor. of secs. 7 & 18, marked on  
 brass cap, T 10 S in N., and

S 12, S 13, R 7 E, in W. half, 1913 on S. rim,

S 7 in NE., and

S 18, R 8 E in SE. quad.; from which,

A mesquite tree 8 ins. diam. brs. N. 38° E. 158 lks. dist.,  
 marked T 10 S R 8 E S 7 B T.

A mesquite tree 8 ins. diam. brs. S. 29° E. 198 lks. dist.,  
 marked T 10 S R 8 E S 18 B T.

Land, level, gently undulating, drains to NNW.

Soil, 2nd rate, sandy, loamy, loose, dry.

Greasewood, cacti, few mesquites and paloverde.

Chains.	S. 0° 20' W. on West bdy. of sec. 18. Over gently undulating land, through dense brush.
40.00	Set an iron post 3 ft. long, 1 in. in diam. 26 ins. in the ground for $\frac{1}{4}$ sec. cor., marked on brass cap, 1913 on S. rim, $\frac{1}{4}$ S 18 in E. half; no bearings available. Dig pits 18x18x12 ins. N. & S. of cor. 3 ft. dist., and raise a mound of earth $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high E. of cor.
80.00	Set an iron post 3 ft. long, 3 ins. in diam. 24 ins. in the ground for cor. of secs. 18 & 19, marked on brass cap, T 10 S in N., and S 13, S 24, R 7 E, in W. half, 1913 on S. rim, S 18 in NE., and S 19, R 8 E, in SE. quad.; no bearings avail. Dig pits 24x24x12 ins. in each sec. 6 ft. dist., and raise a mound of earth 4 ft. base 2 ft. high E. of cor. Land, level, gently undulating, drains NW. Soil, 2nd & 3rd rate, loamy, sandy, loose, dry. Greasewood, cacti, paloverde, mesquite brush.
	S. 0° 20' W. on West bdy. of sec. 19. Over gently undulating land, through dense brush.
16.00	Wash, 25 lks. wide, course NW.
35.00	Wash, 30 lks. wide, course NW.
40.00	Set an iron post 3 ft. long, 1 in. in diam. 26 ins. in the ground for $\frac{1}{4}$ sec. cor., marked on brass cap, 1913 on S. rim, $\frac{1}{4}$ S 19 in E. half; from which, A mesquite tree 16 ins. diam. brs. N. 21° E. 242 lks. dist., marked $\frac{1}{4}$ S 19 B T. A mesquite tree 10 ins. diam. brs. S. 89° E. 162 lks. dist., marked $\frac{1}{4}$ S 19 B T.
80.00	Set an iron post 3 ft. long, 3 ins. in diam. 24 ins. in the ground for cor. of secs. 19 & 30, marked on brass cap, T 10 S in N., and S 24, S 25, R 7 E, in W. half, 1913 on S. rim, S 19 in NE., and S 30, R 8 E in SE. quad.; from which, An ironwood tree 24 ins. diam. brs. S. 35° E. 213 lks. dist., marked T 10 S R 8 E S 30 B T. No other bearings available. Dig pits 24x24x12 ins. in each sec. 6 ft. dist., and raise a mound of earth 4 ft. base 2 ft. high E. of cor. Land, gently rolling. Soil, 3rd rate, sandy, gravelly, loose, dry. Greasewood, paloverde, scrub mesquite, cacti.
	S. 0° 20' W. on West bdy. of sec. 30. Over gently rolling plain, through dense brush.
40.00	Set an iron post 3 ft. long, 1 in. in diam. 26 ins. in the ground for $\frac{1}{4}$ sec. cor., marked on brass cap, 1913 on S. rim, $\frac{1}{4}$ S 30 in E. half; from which, An ironwood tree 6 ins. diam. brs. N. 49° E. 195 lks. dist., marked $\frac{1}{4}$ S 30 B T. An ironwood tree 6 ins. diam. brs. S. 60° E. 72 lks. dist., marked $\frac{1}{4}$ S 30 B T.
80.00	Set an iron post 3 ft. long, 3 ins. in diam. 24 ins. in the ground for cor. of secs. 30 & 31, marked on brass cap brass cap, T 10 S in N., and S 25, S 36, R 7 E, in W. half, 1913 on S. rim, S 30 in NE., and S 31, R 8 E, in SE. quad.; from which, A paloverde tree 8 ins. diam. brs. N. 82° E. 240 lks. dist., marked T 10 S R 8 E S 30 B T. An ironwood tree 9 ins. diam. brs. S. 85° E. 322 lks. dist., marked T 10 S R 8 E S 31 B T. Land, rolling gently. Soil, 3rd rate, gravelly, dry. Paloverde, ironwood, greasewood, scrub mesquite, cacti.

West Boundary of T. 10 S., R. 8 E.

Chains.

40.00 S. 0° 20' W. on West bdy. of sec. 31.  
Over gently rolling plain, through dense brush.  
Set an iron post 3 ft. long, 1 in. in diam. 26 ins. in the ground for  $\frac{1}{4}$  sec. cor., marked on brass cap, 1913 on S. rim,  $\frac{1}{4}$  S 31 in E. half; from which,  
An ironwood tree 20 ins. diam. brs. S.  $1\frac{1}{4}$ ° E. 78 lks. dist., marked  $\frac{1}{4}$  S 31 B T. pits impracticable,  
Raise a mound of stone 2 ft. base,  $1\frac{1}{2}$  ft. high E. of cor.

49.00 Wash, 30 lks. wide, course WNW.

63.00 Wash, 30 lks. wide, course NW.

74.70 Wash, 15 lks. wide, course NW.

80.00 To Std. cor. of Tp. 10 S., R. 8 E., reestablished by me as described in Book "B".

Land, rolling.  
Soil, 3rd rate, gravelly, dry.  
Paloverde, ironwood, greasewood, cacti, fair grass.

General Description.

The west boundary of T. 10 S., R. 8 E., as surveyed by me runs over a smooth or gently undulating valley covered in general with dense undergrowth of greasewood, paloverde, ironwood, mesquite and cacti.

The land to the west is smooth, and open for the greater part of T. 10 S., R. 7 E., which should be subdivided.

October 16, 1913.  
J.B.W.

T. 10 S., R. 8 E.  
Latitudes, departures, and closing errors.

Line designated..	True bearing.	Dist.	Latitudes.		Departures.	
			N.	S.	E.	W.
South boundary (2nd Std. Par. S.)	West,	Chs. 479.98	Chs.	Chs.	Chs.	Chs.
West Boundary,	N. 0°20'E.	478.19	478.19		2.78	479.98
North boundary	N. 89°16'E.	477.30	6.11		477.26	
East Boundary,						
Sec. 1	South,	83.87		83.87		
Sec. 12	S. 0°10'E.	39.98		39.98	0.11	
Sec. 12	S. 0°05'W.	40.09		40.09		0.06
East boundary	S. 0°07'W.	80.06		80.06		0.16
Sec. 24	S. 0°21'W.	40.00		40.00		0.24
Sec. 24	S. 0°03'W.	40.00		40.00		0.03
Sec. 25	S. 0°13'W.	80.17		80.17		0.30
Sec. 26	S. 0°07'W.	80.02		80.02		0.16
Convergency,					0.46	
Totals,			484.30 484.19	484.19	480.61	480.93 480.61
Error in Lat.,			0.11	Error in Dep.,		0.32

J.B.W.

Chains.

Oct. 24, 1913. W. H. E.  
 At 8h a.m., l.m.t., at the cor. of Tps. 7 & 8 S.,  
 Rs. 8 & 9 E., which is a mesquite post, marked and  
 witnessed as described by the Surveyor General,  
 (Later changed to iron post, common to Tps. 7 & 8 S.,  
 R. 8 E. as described in Book "A"),  
 I set off 11°40' S. on the decl. arc, and 32°46' N. on the  
 lat. arc, and determine a meridian with the solar.  
 Thence I run,  
 East, on a random line,  
 (The topography of the land, and location of camp  
 making this more convenient.)  
 Set temp.  $\frac{1}{4}$  sec. cor.  
 Set temp. cor. of secs. 5, 6, 31 & 32.  
 Thence I set temp. corners at intervals of 40 chs.  
 At 476.40 chs. on my random line, the cor. of  
 Tps. 7 & 8 S., Rs. 9 & 10 E. brs. South, 396 lks. dist.,  
 which is a granite stone 10x10x6 ins. above ground,  
 marked and witnessed as described by the Surveyor  
 General. Oct. 24, 1913.

36.00  
76.00

W.H.E.

W.H.E.  
 Oct. 25, 1913.  
 The falling of my random line being out of limits,  
 it becomes necessary to run my true line due west from  
 the cor. of Tps. 7 & 8 S., Rs. 9 & 10 E. Therefore,  
 At 9h a.m., l.m.t. at the cor. of Tps. 7 & 8 S., Rs. 9 &  
 10 E., as above described,  
 I set off 12°02' S. on the decl. arc, and 32°46' N. on  
 the lat. arc, and determine a meridian with the solar.  
 Thence I run, on a true line,  
 West, bet. secs. 1 & 36.  
 Over rolling land, asc. grad. through scattering cacti,  
 greasewood, paloverde, fair native grass.  
 Leave valley, brs. N. & S., asc.  
 Set an iron post 3 ft. long, 1 in. in diam. 26 ins. in  
 the ground for  $\frac{1}{4}$  sec. cor., marked on brass cap, 1913 on  
 S. rim,  $\frac{1}{4}$  S 36 in N., and  
 S 1 in S. half;  
 No bearings available, pits impracticable.  
 Raise a mound of stone 2 ft. base, 1 $\frac{1}{2}$  ft. high N. of cor.  
 Asc. steep from cor.  
 Rock spur, brs. SE. & NW., thence along stony S. slope.  
 Set an iron post 3ft. long, 3 ins. in diam. 24 ins. in  
 the ground for cor. of secs. 1, 2, 35 & 36, marked on  
 brass cap, T 7 S in N.,  
 T 8 S in S., and  
 R 9 E in W. half, 1913 on S. rim,  
 S 35 in NW.,  
 S 36 in NE.,  
 S 1 in SE., and pits impracticable,  
 S 2 in SW. quad.; no bearings available,  
 raise a mound of stone 2 ft. base, 1 $\frac{1}{2}$  ft. high W. of cor.  
 Land, rolling, mts.  
 Soil, 2nd & 3rd rate, sandy, loamy, stony, dry.  
 Greasewood, paloverde, cacti, fair grass.

35.00  
40.00

56.00  
80.00

10.00  
35.00

40.00

54.00

West, bet. secs. 2 & 35.  
 Over mts. land, desc. steep SW. slope, through  
 scattering brush.  
 Gulch, 30 lks. wide, course S., asc. prec.  
 Rocky ridge, brs. SSW. & NNE., from peak to N., desc.  
 steep SW. slope. Low divide or saddle 20 chs. SW.  
 Set an iron post 3 ft. long, 1 in. in diam. 26 ins. in  
 the ground for  $\frac{1}{4}$  sec. cor., marked on brass cap, 1913 on  
 S. rim,  $\frac{1}{4}$  S 35 in N., and no bearings available,  
 S 2 in S. half; pits impracticable,  
 raise a mound of stone 2 ft. base, 1 $\frac{1}{2}$  ft. high N. of cor.  
 Gulch, 30 lks. wide, course NW., thence along stony,  
 broken N. slope.

North Boundary of T. 8 S., R. 9 E.

Chains.

80.00 Set an iron post 3 ft. long, 3 ins. in diam. 24 ins. in the ground for cor. of secs. 2, 3, 34 & 35, marked on brass cap, T 7 S in N., T 8 S in S., and R 9 E in W. half, 1913 on S. rim, S 34 in NW., S 35 in NE., S 2 in SE., and S 3 in SW. quad.; no bearings available, pits impracticable, raise a mound of stone 2 ft. base, 1 1/2 ft. high W. of cor. Land, mts., broken, rough. Soil, 3rd rate, stony, dry. Paloverde, greasewood, cacti, fair grass.

West, bet. secs. 3 & 34.

Over rough, broken, mts. land, along N. slope, asc. spur.  
1.00  
11.00 Spur, brs. N. & S., thence along prec. NW. slope, desc.  
40.00 Set an iron post 3 ft. long, 1 in. in diam. 26 ins. in the ground for 1/4 sec. cor., marked on brass cap, 1913 in S. rim, 1/4 S 34 in N., and S 3 in S. half; no bearings available, pits impracticable, raise a mound of stone 2 ft. base, 1 1/2 ft. high N. of cor.

45.00 Foot of prec. descent, brs. NE. & SW.  
46.00 Asc. steep NNE. slope.  
50.00 Highest point of N. slope of Picacho Mts., brs. N. & S., desc. prec. NW. slope.

80.00 Set an iron post 3 ft. long, 3 ins. in diam. 24 ins. in the ground for cor. of secs. 3, 4, 33 & 34, marked on brass cap, T 7 S in N., T 8 S in S., and R 9 E in W. half, 1913 on S. rim, S 33 in NW., S 34 in NE., S 3 in SE., and S 4 in SW. quad.; pits impracticable, no bearings available, raise a mound of stone 2 ft. base, 1 1/2 ft. high W. of cor. Land, rough, mts., broken. Soil, 4th rate, stony, dry. Paloverde, cacti, sparse grass. At this cor., at noon, I set off 12°05' S. on the decl. arc, and observe the sun on the meridian. The resulting lat. is 32°46' N.

West, bet. secs. 4 & 33.

Over mts. land, desc. prec. NW. slope.  
8.00 Foot of prec. descent, brs. NE. & SW.  
17.00 Asc. prec. stony NE. slope.  
24.50 Rocky spur, brs. NNW. & SSE., desc. prec. NW. slope.  
40.00 Foot of main slope, brs. NNE. & SSW.  
Set an iron post 3 ft. long, 1 in. in diam. 26 ins. in the ground for 1/4 sec. cor., marked on brass cap, 1913 in S. rim, 1/4 S 33 in N., and S 4 in S. half; no bearings available, pits impracticable, raise a mound of stone 2 ft. base, 1 1/2 ft. high N. of cor.

45.00 Foot of slope, brs. NE. & SW., enter valley.

48.00 Wash, 20 lks. wide, course NNE.

73.00 Wash, 10 lks. wide, course NNE.

76.80 Road, brs. NE. & SW.

80.00 Set an iron post 3 ft. long, 3 ins. in diam. 24 ins. in the ground for cor. of secs. 4, 5, 32 & 33, marked on brass cap, T 7 S in N., T 8 S in S., and R 9 E in W. half; 1913 on S. rim, S 32 in NW., S 33 in NE., S 4 in SE., and S 5 in SW. quad.; from which,

An ironwood tree 10 ins. diam. brs. N. 76°E. 210 lks. dist., marked T 7 S R 9 E S 33 B T.

An ironwood tree 10 ins. diam. brs. S. 62°E. 80 lks. dist., marked T 8 S R 9 E S 4 B T.



Chains.

No other bearings available,  
Dig pits 18x18x12 ins. in each sec.  $5\frac{1}{2}$  ft. dist., and  
raise a mound of stone covered with earth 4 ft. base  
2 ft. high W. of cor.

Land, mts., rolling.

Soil, 3rd rate, stony, gravelly, sandy.

Paloverde, ironwood, greasewood, cacti, sparse grass.

West, bet. secs. 5 & 32.

Over gently rolling land, through dense brush.

15.00 Wash, 15 lks. wide, course NW.

22.70 Road, brs. N. & S.

35.40 Wash, 10 lks. wide, course NNW.

40.00 Set an iron post 3 ft. long, 1 in. in diam. 26 ins. in  
the ground for  $\frac{1}{4}$  sec. cor., marked on brass cap, 1913 on  
S. rim,  $\frac{1}{4}$  S 32 in N., and

S 5 in S. half; no bearings available,

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

65.60 Wash, 15 lks. wide, course NNW.

80.00 Set an iron post 3 ft. long, 3 ins. in diam. 24 ins. in  
the ground for cor. of secs. 5, 6, 31 & 32, marked on  
brass cap, T 7 S in N.,

T 8 S in S., and

R 9 E in W. half, 1913 on S. rim,

S 31 in NW.,

S 32 in NE.,

S 5 in SE., and

S 6 in SW. quad.; no bearings available.

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 W. of cor.

Land, rolling. Soil, 3rd rate, sandy, gravelly, dry.

Paloverde, greasewood, cacti, sparse grass.

West, bet. secs. 6 & 31.

Over gently undulating land, through dense brush.

4.40 Wash, 15 lks. wide, course NNW.

13.10 Road, brs. NE. & SW.

40.00 Set an iron post 3 ft. long, 1 in. in diam. 26 ins. in  
the ground for  $\frac{1}{4}$  sec. cor., marked on brass cap, 1913 on  
S. rim,  $\frac{1}{4}$  S 31 in N., and S 6 in S. half;

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

53.10 Old road, brs. NNE. & SSW.

65.40 Wash, 15 lks. wide, course NNE.

76.40 Intersect E. bdy. of T. 8 S., R. 8 E., whence cor. of  
Tps. 7 & 8 S., Rs. 8 & 9 E. brs. N.  $0^{\circ}25'$  E. 3.96 chs.  
dist., (Later changed to refer to 2 Tps. as described in Book "A")

Set an iron post 3 ft. long, 3 ins. in diam. 24 ins. in  
the ground for closing cor. of Tps. 7 & 8 S., R. 9 E.,  
marked on brass cap, 1913 on S. rim,

C C, W. of centre,

R 9 E in E., and

T 7 S, S 36, S 1, T 8 S, R 8 E, in W. half,

T 7 S, S 31 in NE., and

T 8 S, S 6 in SE. quad.; from which,

A mesquite tree 10 ins. diam. brs. N.  $66\frac{3}{4}^{\circ}$  E. 72 lks. dist.,  
marked T 7 S R 9 E S 31 B T.

A mesquite tree 12 ins. diam. brs. S.  $78^{\circ}$  E. 228 lks. dist.,  
marked T 8 S R 9 E S 6 B T.

Silver Bell Peak brs. S.  $5^{\circ}26'$  W.

Picacho Peak brs. S.  $22^{\circ}50'$  E.

High peak, near W. end of Superstition mts. brs. N.  $1^{\circ}02'$  E.

Land, gently rolling. Soil, 2nd rate, sandy, loamy, loose.

Paloverde, mesquite, greasewood, cacti, sparse grass.

W.H.E.

#### General Description.

The N. bdy. of T. 8 S., R. 9 E. runs over rough mts. land  
across the N. end of the Picacho Mts., the west 2 miles  
being in the valley. No water no timber along the line.  
Oct. 25, 1913.

W. H. E.

Boundaries of T. 8 S., R. 9 E.

Latitudes, departures and closing errors.

Line Designated.	True bearing.	Dist.	Latitudes.		Departures.		
			N.	S.	E.	W.	
		Chs.	Chs.	Chs.	Chs.	Chs.	Chs.
South Boundary,	N. 89°56' W.	479.46	0.56	-----	-----	479.46	
West boundary,	N. 0°11' E.	160.52	160.52	-----	0.51	-----	
	N. 0°25' E.	318.28	318.28	-----	2.31	-----	
North Boundary,	East,	476.40	-----	-----	476.40	-----	
East boundary,	South,	320.00	-----	320.00	-----	-----	
East boundary	S. 0°1' W.	40.01	-----	40.01	-----	-----	.01
	S. 0°2' E.	80.06	-----	80.06	-----	0.02	-----
CONVERGENCY		40.04	-----	40.04	-----	.02	-----
Totals, -----			479.36	480.11	479.72	479.47	
				479.36	479.47		
Error in Lat., -----				0.75			
Error in Dep., -----					0.25		

Oct. 25, 1913.

J. B. W., and W. H. E.

Random Line, East Bdy. of T. 7 S., R. 9 E.  
Completion of East Bdy. of T. 6 S., R. 9 E.

Chains.

Nov. 3, 1913. J.B.W.  
 At 8h a.m., l.m.t., at the cor. of secs. 25, 30, 31 & 36, on the E. bdy. of T. 7 S., R. 9 E., which is a mesquite post, marked and witnessed as described by the Surveyor General,  
 I set off  $14^{\circ}58\frac{1}{2}'$  S. on the decl. arc, and  $32^{\circ}47'$  N. on the lat. arc, and determine a meridian with the solar. Thence I run, as per instructions,  
 North, on a random line, setting temp. cors. at intervals of 40 chs., for a distance of 5 miles, where I set temp. cor. of Tps. 6 & 7 S., Rs. 9 & 10 E.

J.B.W.

J.B.W. Completion of E. Bdy. of T. 6 S., R. 9 E.  
 At 2h p.m., l.m.t., at cor. of secs. 25, 30, 31 & 36, T. 6 S., R. 9 E., which is a granite stone 10x8x6 ins. above ground, marked and witnessed as described by the Surveyor General,

I set off  $15^{\circ}05'$  S. on the decl. arc, and  $32^{\circ}52'$  N. on the lat. arc, and determine a meridian with the solar. Thence I run, as per instructions, Var.  $14^{\circ}30'$  E., South, on a true line bet. secs. 31 & 36.

Over rolling, broken land, through dense greasewood, cact, sage brush, and paloverde.

- 6.00 Gulch, 20 lks. wide, course NW.
  - 18.00 W. point of spur from ESE.
  - 26.00 Gulch, 80 lks. wide, course NW.
  - 35.00 Gulch, 50 lks. wide, course NNE., asc.
  - 40.00 Set an iron post 3 ft. long, 1 in. in diam. 26 ins. in the ground for  $\frac{1}{4}$  sec. cor., marked on brass cap, 1913 on S. rim,  $\frac{1}{4}$  S 36 in W., and pits impracticable, S 31 in E. half; no bearings available, raise a mound of stone 2 ft. base,  $1\frac{1}{2}$  ft. high W. of cor.
  - 45.00 Asc. steep N. slope.
  - 60.00 Ridge, brs. W. & E., 400 ft. above valley, desc. steep.
  - 80.00 Set an iron post 3 ft. long, 3 ins. in diam. 24 ins. in the ground for cor. of Tps. 6 S., Rs. 9 & 10 E., marked on brass cap, 1913 on S. rim,  
 T 6 S in N., and  
 T 7 S, S 1, R 9 E, S 6, R 10 E, in S. half,  
 R 9 E S 36 in NW., and  
 R 10 E S 31 in NE. quad.; from which,  
 A paloverde tree 9 ins. diam. brs. N.  $74\frac{1}{2}^{\circ}$  W. 107 lks. dist., marked T 6 S R 9 E S 36 B T.  
 A paloverde tree 8 ins. diam. brs. N.  $58\frac{1}{2}^{\circ}$  E. 21 lks. dist., marked T 6 S R 10 E S 31 B T.
- Land, rolling, mts., broken.  
 Soil, 3rd rate, gravelly, stony, dry.  
 Paloverde, greasewood, cacti, sparse grass.  
 The above cor. was marked for cor. of 2 Tps. for the reason that my random line on E. Bdy. of T. 8 S., R. 9 E. is 260 lks. to W., which falling being out of limits for 5 miles of random line will necessitate a closing cor. for Tps. 7 S., Rs. 9 & 10 E.

Nov. 3, 1913.

J.B.W.

Completion of South Boundary of T. 6 S., R. 9 E.

Chains.	<p>Nov. 4, 1913. <span style="float: right;">J.B.W.</span>          At 8h a.m., l.m.t., at the cor. of Tps. 6 S., Rs. 9 &amp; 10 E.,          established by me, and hereinbefore described,          I set off 15°17' S. on the decl. arc, and 32°51' N. on          the lat. arc, and determine a meridian with the solar.          Thence I run, as per instructions,          West, on a random line, on S. bdy. of Sec. 36.</p>
40.00	Set temp. $\frac{1}{4}$ sec. cor.
81.64	The orig. cor. of secs. 1, 2, 35 & 36 brs. North, 57 lks. dist., which is a granite stone 10x5x6 ins. above ground, marked and witnessed as described by the Surveyor General, whence I run, S. 89°36' E. on a true line on S. bdy. of sec. 36. Over rolling, broken land, asc. grad. through dense paloverde, cacti, greasewood.
16.00	Gulch, 30 lks. wide, course WNW., asc.
27.50	Spur, brs. SW. & NE., desc.
32.00	Gulch, 30 lks. wide, course SW., asc. steep.
40.82	Set an iron post 3 ft. long, 1 in. in diam. 26 ins. in the ground for $\frac{1}{4}$ sec. cor., sec. 36, marked on brass cap, $\frac{1}{4}$ S 36 in N. half; 1913 on S. rim; No bearings available, pits impracticable.
44.70	Raise mound of stone, 2 ft. base, 1 1/2 ft. high, N. of cor.
44.70	Ridge, brs. NE. & SSW., thence along rough broken SSE. slope.
68.00	Desc. SE. slope.
71.00	Gulch, 25 lks. wide, course SE.
79.04	Intersect my random line N. on E. bdy. of T. 7 S., R. 9 E., at 4 miles, 78.03 chs. N. of cor. of secs. 25, 30, 31 & 36, Set an iron post 3 ft. long, 3 ins. in diam. 24 ins. in the ground for closing cor. of Tps. 7 S., Rs. 9 & 10 E., marked on brass cap, 1913 on S. rim, C C, S. of centre, T 7 S in S., and T 6 S, R 9 E S 36, R 10 E S 31, in N. half, S 6, R 10 E in SE., and S 1, R 9 E in SW. quad.; from which, A paloverde tree 4 ins. diam. brs. S. 73° E. 27 lks. dist., marked T 7 S R 10 E S 6 C C B T. A paloverde tree 6 ins. diam. brs. S. 73° W. 42 lks. dist., marked T 7 S R 9 E S 1 C C B T.
79.90	Gulch, 30 lks. wide, course SSW.
81.64	To cor. of Tps. 6 S., Rs. 9 & 10 E., hereinbefore described. Land, rolling, mts., broken. Soil, 3rd rate, gravelly, stony, dry. Paloverde, cacti, greasewood, sparse grass.
	J.B.W.
	<p>J.B.W.          Retracement of line bet. secs. 35 &amp; 36,          T. 6 S., R. 9 E.          A gross error of closure developing from my survey of          the S. and E. bdy. of sec. 36, of T. 6 S., R. 9 E.,          I test my own alinement and measurement, and finding          same correct, I run,          from the cor. of secs. 35 &amp; 36, S. bdy. T. 6 S., R. 9 E.,          North, bet. secs. 35 &amp; 36.          Over rolling land, through dense brush.</p>
9.00	Gulch, 30 lks. wide, course WNW., asc.
18.00	Spur, brs. W. & E., desc.
30.00	Foot of slope, brs. E. & W.
40.02	Old $\frac{1}{4}$ sec. cor. brs. East, 134 lks. dist., which is a granite stone 8x6x6 ins. above ground, properly marked, with mound of stone to W.
80.05	Old cor. of secs. 25, 26, 35 & 36 brs. East, 154 lks. dist., which is a granite stone 9x6x6 ins. above ground, properly marked, with mound of stone to W. True bearing of 1st half mile this line is N. 1°55' E. True bearing of N. half this line is N. 0°17' E.
	November 4, 1913. <span style="float: right;">J.B.W.</span>

Chains.	Nov. 4, 1913. J.B.W. From the closing cor. of Tps. 7 S., Rs. 9 & 10 E., established by mesandher, in before described, me, I run, as per instructions, South, on a true line, bet. secs. 1 & 6. Over broken, heavily rolling land, desc. grad., through dense paloverde, greasewood, cacti, sparse grass.
3.00	Gulch, 40 lks. wide, course SW.
11.40	Gulch, 60 lks. wide, course SW.
38.03	Set an iron post 3 ft. long, 1 in. in diam. 26 ins. in the ground for $\frac{1}{4}$ sec. cor., marked on brass cap, 1913 on S. rim, $\frac{1}{4}$ S 1 in W., and S 6 in E. half; from which, A paloverde tree 6 ins. diam. brs. S. 68° E. 34 lks. dist., marked $\frac{1}{4}$ S 6 B T. A paloverde tree 6 ins. diam. brs. N. 37° W. 25 lks. dist., marked $\frac{1}{4}$ S 1 B T.
43.00	Spur, brs. W. & E., near W. point, desc.
68.00	Gulch, 40 lks. wide, course WSW.
78.03	Point for cor. of secs. 1, 6, 7 & 12 falls in gulch, 40 lks. wide, course SW.
78.73	Set an iron post 3 ft. long, $\frac{3}{8}$ ins. in diam. 24 ins. in the ground for witness cor. to cor. of secs. 1, 6, 7 & 12, marked on brass cap, 1913 on S. rim, W C, N. of centre, T 7 S in N. half, R 9 E S 1 in NW., R 10 E S 6 in NE., S 7 in SE., and S 12 in SW. quad.; from which, A paloverde tree 6 ins. diam. brs. N. 32° E. 192 lks. dist., marked T 7 S R 10 E S 6 W C B T. A paloverde tree 6 ins. diam. brs. S. 56° E. 153 lks. dist., marked T 7 S R 10 E S 7 W C B T. A paloverde tree 8 ins. diam. brs. S. 48 $\frac{1}{2}$ ° W. 37 lks. dist., marked T 7 S R 9 E S 12 W C B T. A paloverde tree 8 ins. diam. brs. N. 79° W. 91 lks. dist., marked T 7 S R 9 E S 1 W C B T.
	Land, broken, mts. Soil, 3rd rate, gravelly, stony, dry. Paloverde, greasewood, cacti, sparse grass. At this cor., at noon, I set off 15° 21 $\frac{1}{2}$ ' S. on the decl. arc, and observe the sun on the meridian. The resulting lat. is 32° 51' N.
0.70	From the cor. point of secs. 1, 6, 7 & 12, I run, South, bet. secs. 7 & 12, over rolling broken land, Witness cor. as above described, through dense brush.
19.00	Wash, 40 lks. wide, course NW.
23.00	Wash, 40 lks. wide, course NW.
28.40	Road, brs. W. & SE.
40.00	Set an iron post 3 ft. long, 1 in. in diam. 26 ins. in the ground for $\frac{1}{4}$ sec. cor., marked on brass cap, 1913 on S. rim, $\frac{1}{4}$ S 12 in W., and S 7 in E. half; from which, A paloverde tree 9 ins. diam. brs. S. 15° W. 100 lks. dist., marked $\frac{1}{4}$ S 12 B T. A paloverde tree 6 ins. diam. brs. N. 10° E. 111 lks. dist., marked $\frac{1}{4}$ S 7 B T.
41.00	Asc. steep.
55.00	Ridge, brs. E. & W., desc. steep.
68.00	Foot of main slope, brs. NE. & SSW., desc. grad.
80.00	Set an iron post 3 ft. long, $\frac{3}{8}$ ins. in diam. 24 ins. in the ground for cor. of secs. 1, 12, 13 & 18, marked on brass cap, T 7 S in N. half, 1913 on S. rim, R 9 E S 12 in NW., R 10 E S 7 in NE., S 18 in SE., and S 13 in SW. quad.; from which,

Completion of East Boundary of T. 7 S., R. 9 E.

Chains.	<p>A paloverde tree 10 ins.diam.brs.N.39°E. 40 lks. dist., marked T 7 S R 10 E S 7 B T.</p> <p>A paloverde tree 8 ins.diam.brs.S.59°E. 163 lks. dist., marked T 7 S R 10 E S 18 B T.</p> <p>A paloverde tree 6 ins.diam.brs.S.48°W. 118 lks. dist., marked T 7 S R 9 E S 13 B T.</p> <p>A paloverde tree 8 ins.diam.brs.N.86<sup>3</sup>/<sub>4</sub>°W. 99 lks. dist., marked T 7 S R 9 E S 12 B T.</p> <p>Land, broken, mts. Soil, 3rd rate, gravelly, stony, dry. Paloverde, cacti, greasewood, fair grass in places.</p>
13.50 40.00	<p>South, bet. secs. 13 &amp; 18. Over rolling, broken land, through dense brush. Wash, 20 lks. wide, course SW. Set an iron post 3 ft. long, 1 in. in diam. 26 ins. in the ground for <sup>1</sup>/<sub>4</sub> sec. cor., marked on brass cap, 1913 on S. rim, <sup>1</sup>/<sub>4</sub> S 13 in W., and S 18 in E. half; from which, A paloverde tree 12 ins.diam.brs.N.86°W. 70 lks. dist., marked <sup>1</sup>/<sub>4</sub> S 13 B T. A paloverde tree 6 ins.diam.brs.N.8<sup>3</sup>/<sub>4</sub>°E. 222 lks. dist., marked <sup>1</sup>/<sub>4</sub> S 18 B T.</p>
63.90	Wash, 30 lks. wide, course W.
66.50	Road, brs. NE. & SW.
75.00	Wash, 60 lks. wide, course NW.
80.00	<p>Set an iron post 3 ft. long, 3 ins. in diam. 24 ins. in the ground for cor. of secs. 13, 18, 19 &amp; 24, marked on brass cap, T 7 S in N. half, 1913 on S. rim, R 9 E S 13 in NW., R 10 E S 18 in NE., S 19 in SE., and S 24 in SW. quad.; from which, A paloverde tree 8 ins.diam.brs.N.29°E. 115 lks. dist., marked T 7 S R 10 E S 18 B T. A paloverde tree 9 ins.diam.brs.S.81°E. 28 lks. dist., marked T 7 S R 10 E S 19 B T. A paloverde tree 8 ins.diam.brs.S.74°W. 161 lks. dist., marked T 7 S R 9 E S 24 B T. A paloverde tree 8 ins.diam.brs.N.84°W. 124 lks. dist., marked T 7 S R 9 E S 13 B T.</p> <p>Land, broken, rolling. Soil, 3rd rate, gravelly, dry. Paloverde, cacti, greasewood, sparse grass.</p>
7.60	South, bet. secs. 19 & 24. Over rolling land, through dense brush. Road, brs. NW. & SE., asc.
32.65	Spur, brs. E. & W., desc.
40.00	Point for <sup>1</sup> / <sub>4</sub> sec. cor., in wash, 30 lks. wide, course SE.
40.35	<p>Set an iron post 3 ft. long, 1 in. in diam. 26 ins. in the ground for witness cor. to <sup>1</sup>/<sub>4</sub> sec. cor., marked on brass cap, W C <sup>1</sup>/<sub>4</sub> N. of centre, 1913 on S. rim, S 19 in SE., and S 24 in SW. quad.; from which, A paloverde tree 6 ins.diam.brs.N.54°W. 73 lks. dist., marked <sup>1</sup>/<sub>4</sub> S 24 W C B T. A paloverde tree 9 ins.diam.brs.S.64°E. 51 lks. dist., marked <sup>1</sup>/<sub>4</sub> S 19 W C B T.</p>
47.90	Foot of slope, brs. NE. & SW. Wash, 40 lks. wide, course SE.
69.60	Wash, 20 lks. wide, course SE.
80.00	<p>Set an iron post 3 ft. long, 3 ins. in diam. 24 ins. in the ground for cor. of secs. 19, 24, 25 &amp; 30, marked on brass cap, T 7 S in N. half, 1913 on S. rim, R 9 E S 24 in NW., R 10 E S 19 in NE., S 30 in SE., and S 25 in SW. quad.; from which,</p>

Completion of  
East Boundary of T. 7 S., R. 9 E.

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Chains.

- A paloverde tree 8 ins.diam.brs.N.25°E. 128 lks. dist., marked T 7 S R 10 E S 19 B T.
- A paloverde tree 8 ins.diam.brs.S.60°E. 231 lks. dist., marked T 7 S R 10 E S 30 B T.
- A paloverde tree 8 ins.diam.brs.S.84½°W. 63 lks. dist., marked T 7 S R 9 E S 25 B T.
- A paloverde tree 9 ins.diam.brs.N.42°W. 132 lks. dist., marked T 7 S R 9 E S 24 B T.

Land, broken, rolling.  
Soil, 3rd rate, gravelly, sandy, loose, dry.  
paloverde, greasewood, cacti, sparse grass.

South, bet. secs. 25 & 30.

Over rolling land, through scattering brush.

6.00 Wash, 10 lks. wide, course ESE.

40.00 Set an iron post 3 ft. long, 1 in. in diam. 26 ins. in the ground for ¼ sec. cor., marked on brass cap, 1913 on S. rim, ¼ S 25 in W., and S 30 in E. half; from which,

A paloverde tree 8 ins.diam.brs.S.67°W. 122 lks. dist., marked ¼ S 25 B T.

A mesquite tree 10 ins.diam.brs.N.76½°E. 158 lks. dist., marked ¼ S 30 B T.

46.00 Wash, 20 lks. wide, course ESE.

49.00 Wash, 20 lks. wide, course ESE.

68.90 Wash, 20 lks. wide, course ESE.

80.00 To cor. of secs. 25, 30, 31 & 36, hereinbefore described. Land, rolling. Soil, 3rd rate, gravelly, sandy, loose. Paloverde, scrub mesquite, greasewood, fair grass.

J.B.W.

General Description.

The E. bdy. of T. 7 S., R. 9 E., as completed by me runs over heavily rolling or broken land in the northern portion, along near the divide of the broken hills of the Picacho Mts., descending into the valley to the SE. in the southern part of the line. There is no water nor timber on or near the line.

J.B.W.

Boundaries of T. 7 S., R. 9 E.  
Latitudes, departures, and closing errors.

Line Designated.	True bearing.	Dist.	Latitudes.		Departures.	
			N.	S.	E.	W.
South Boundary,	West,	476.40	Chs.	Chs.	Chs.	Chs.
E.Bdy. T8S, R8E,	N. 0°25'E.	3.96	3.96	-----	0.03	-----
E.Bdy. T7S, R8E,	N. 0°09'E.	478.57	478.57	-----	1.26	-----
S.Bdy. T6S, R9E,	S. 89°25'E.	155.32	-----	1.22	155.32	-----
	S. 89°23'E.	160.28	-----	1.73	160.28	-----
	S. 89°30'E.	40.09	-----	0.35	40.09	-----
	S. 89°20'E.	40.08	-----	0.47	40.08	-----
	S. 89°36'E.	79.04	-----	0.56	79.04	-----
East Boundary,	South,	478.03	-----	478.03	-----	-----
Convergency,			-----	-----	0.46	-----
	Totals, -----		482.53	482.36	476.56	476.40
			482.36	-----	476.40	-----
			0			
	Error in Lat., -----		0.17			
	Error in Dep., -----				0.16	

Nov. 4, 1913.

*Jesse B Wright*  
*William B. Elliott*

U. S. Surveyors.

FOR FINAL OATHS OF UNITED STATES SURVEYORS  
*Jesse B. Wright and William H. Elliott.*  
see Book "A"

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

U. S. Surveyor.

Subscribed by said \_\_\_\_\_, and sworn to before me }  
this \_\_\_\_\_ day of \_\_\_\_\_, 191\_\_\_\_



APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,  
*Phoenix Arizona* DECEMBER 30, 1914

The foregoing field notes of the survey of \_\_\_\_\_  
*Township Exteriors*  
*South and East of the*  
*Gila and Salt River Base and Meridian*  
*in the State of Arizona.*

executed by *Jesse B. Wright and William H. Elliott, U.S. Surveyors*  
under ~~his~~ special instructions dated *May 28th, 1913 for Group No 30*, having been  
critically examined, and the necessary corrections and explanations made, the said field notes, and the  
surveys they describe, are hereby approved.

*Frank S. Ingalls*  
U. S. Surveyor General  
of Arizona.

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