

Book D.

BOOK 4093

FIELD NOTES

of the

survey of a portion of the East boundaries of Townships 12 South,
 Ranges 5 $\frac{1}{2}$, 6 and 7 East; and the ^{re-}survey of the West half of the line
 between sections 18 and 19, Township 12 South, Range 6 East.

Of the Gila and Salt River Meridian,

In the State of Arizona

EXECUTED BY

Francis E. Joy, U. S. Cadastral Engineer

In the capacity of U. S. Surveyor..., under Special Instructions dated November 15,
19 33, issued by the District Cadastral Engineer to govern surveys included in Group
 No. 195, which were approved by the Commissioner of the General Land
 Office, March 9, 19 34, and Assignment Instructions dated December 1, 19 33.

Survey commenced December 10, 19 33.

Survey completed December 17, 19 33.

4093

4093

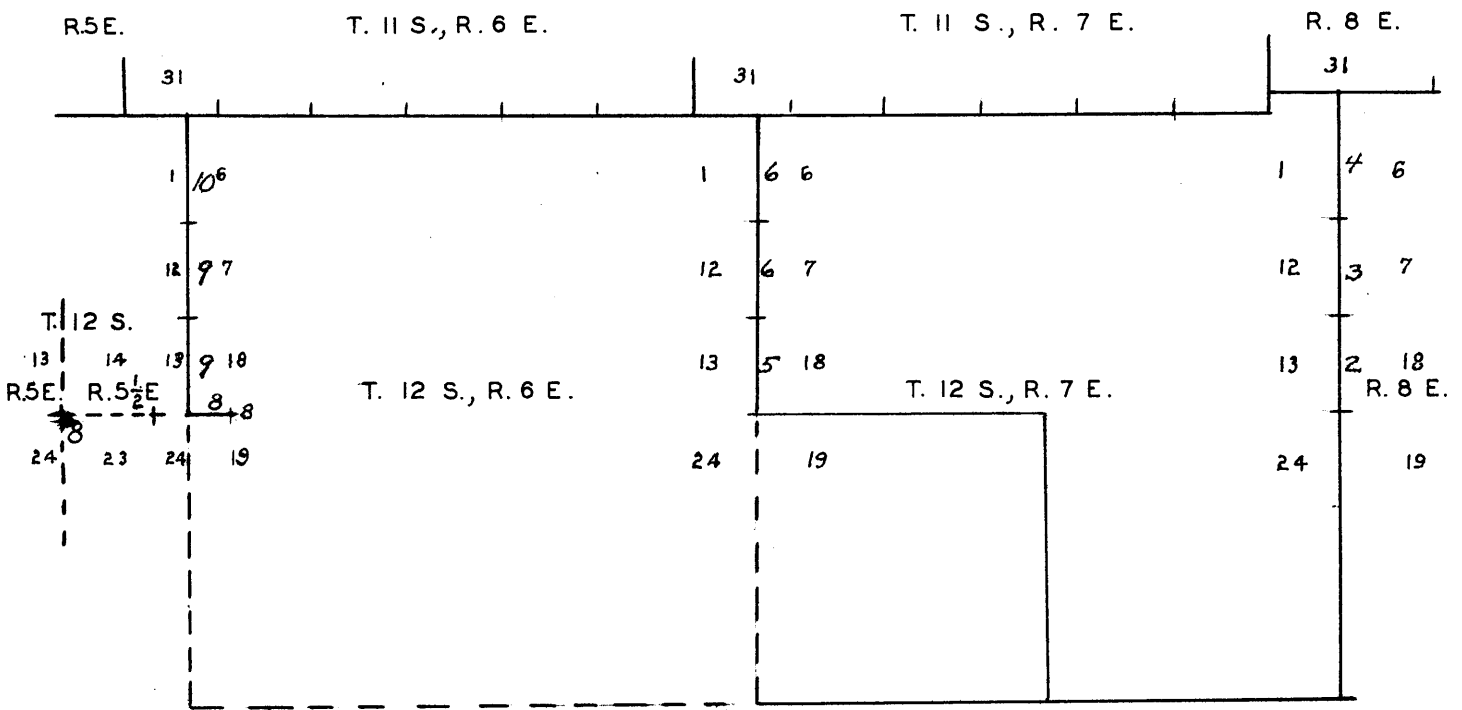
INDEX DIAGRAM.

Township....., *Range*.....

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INDEX DIAGRAM

BOOK 4093



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A PORTION OF THE EAST BOUNDARY OF T. 12 S., R. 7 E.

BOOK 4093

The survey of portions of the east boundaries of Tps. 12 S., Rs. 5 $\frac{1}{2}$, 6 and 7 E., and necessary retracements were executed with a Buff and Buff light mountain transit, Serial No. 16723, constructed in accordance with the standard specifications of the General Land Office. The horizontal circle has a diameter of 4 $\frac{1}{2}$ inches, with two double opposite verniers reading to single minutes; the vertical circle has a diameter of 4 inches, with one double vernier reading to single minutes. The instrument is equipped with the improved Smith solar attachment; radius of the latitude arc 2 $\frac{1}{2}$ inches, and of the declination arc 3 $\frac{1}{2}$ inches, each with verniers reading to single minutes. The instrument was in good condition, and having been placed in satisfactory adjustment prior to beginning the survey, and tested and found free from appreciable error, was approved by the district cadastral engineer on December 1, 1933. I examine all the instrumental adjustments before making the field tests hereinafter recorded.

The directions of all lines were determined by the solar transit method. The measurements were made with a Lallie steel tape, 5 chains in length, graduated every link for the first 100 links, and the remainder at intervals of 10 links. The tape was tested by comparison with a Keuffel and Esser standard and found correct. The measurements were made on the slope, and the vertical angle of each interval was ascertained by a clinometer in good adjustment; the horizontal equivalents are entered in the field note record.

The data furnished with the special instructions gives the geographic position of the SE. cor. of T. 12 S., R. 7 E., as follows: latitude 32° 19' 43" N., and longitude 111° 34' 44" W.

December 10, 1933, at camp near the cor. of secs. 17, 18, 19 and 20, T. 12 S., R. 7 E., at 5h 00m 31s p.m., l.m.t., or 5h 26m 51s p.m. by my watch, which reads correct 105th meridian time as determined from a Western Union clock, I make an hour angle observation on Polaris, east of the meridian, for latitude and azimuth, three each with the telescope in direct and reversed positions, reading the vertical angle, and reading the horizontal deflection angle from a sharp pointed tree on sky line, about 5 miles distant, in the direction N-E to Polaris.

Mean horizontal angle, tree to Polaris	2° 33' 30"
Azimuth of Polaris	58' 00" E.
True bearing to tree	N. 1° 35' 00" W.
Mean observed vertical angle	33° 03' 00"
Reduced latitude	32° 21' 58" N.

December 11, 1933, every hour from 8 to 11 a.m., and from 1 to 4 p.m., I make proper settings on the arcs of the solar attachment and ascertain that the resulting orientation of the instrument, when compared with the meridian established by Polaris observation, has a maximum error of less than 1 $\frac{1}{2}$ '.

I repeat the tests of the arcs daily by noon observation, and verify the meridional indications at frequent intervals throughout the survey.

A PORTION OF THE EAST BOUNDARY OF T. 12 S., R. 7 E.

Chains	<p>The south half of the east boundary of T. 12 S., R. 7 E., was surveyed in 1925 and the south boundaries of Tps. 11 S., Rs. 6, 7 and 8 E., were surveyed by W.H.Thorn, U.S.Cadastral Engineer, in 1916. The latitudinal section line through the middle of Tps. 12 S., Rs. 6 and 7 E., was surveyed by C.E.Hunter, U.S.Transitman, in 1925. No other surveys of record within these townships.</p>
	<p>Beginning at the cor. of secs. 13, 18, 19 and 24, on the E. bdy. of T. 12 S., R. 7 E., which is an iron post, 2 ins. diam., 8 ins. above ground, firmly set, marked and witnessed as described in the official record.</p> <p>North, bet. secs. 13 and 18.</p> <p>Over rolling land, through scattering timber and undergrowth.</p>
3.10	Wash, 15 lks. wide, 12 ft. deep, course NW.
10.00	Base of hill, ascend 74 ft. over S. slope.
16.40	Top of ascent on E. slope of hill. Top, about 20 ft. above this point, bears W., 1.50 chs. dist.; descend 75 ft. over NE. slope.
29.20	Wash, 15 lks. wide, 6 ft. deep, course W., thence over rolling land.
39.15	Dim road, bears NE. and SW.
40.00	Set an iron post, 3 ft. long, 1 in. diam., 30 ins. in the ground, for $\frac{1}{4}$ sec. cor., with brass cap mkd.
	$\frac{1}{4}$ S 13 S 18 × 1934
	from which
	A palo verde, 6 ins. diam., bears S. 25° 45' E., 127 lks. dist., mkd. $\frac{1}{4}$ S 18 B T.
	A palo verde, 7 ins. diam., bears N. 83° 45' W., 178 lks. dist., mkd. $\frac{1}{4}$ S 13 B T.
50.00	Wash, 20 lks. wide, course W.
54.90	Wash, 15 lks. wide, 3 ft. deep, course W.
78.00	Shallow sandy wash, 50 lks. wide, course W.
80.00	Set an iron post, 3 ft. long, 2 ins. diam., 32 ins. in the ground, for cor. of secs. 7, 12, 13 and 18, with brass cap mkd.
	T 12 S R 7 E R 8 E S 12 S 7 S 13 S 18 1933
	from which
	An iron wood, 8 ins. diam., bears N. 72 $\frac{3}{4}$ ° E., 107 lks. dist., mkd. T 12 S R 8 E S 7 B T.
	A palo verde, 6 ins. diam., bears S. 85° E., 80 lks. dist., mkd. T 12 S R 8 E S 18 B T.

A PORTION OF THE EAST BOUNDARY OF T. 12 S., R. 7 E.

BOOK 4098

Chains

An ironwood, 8 ins. diam., bears S. $12\frac{1}{2}^{\circ}$ W., 146 lks. dist., mkd. T 12 S R 7 E S 13 B T.

An ironwood, 12 ins. diam., bears N. 37° W., 129 lks. dist., mkd. T 12 S R 7 E S 12 B T.

Land, rolling.
Soil, gravelly and rocky, 3rd rate.
Timber, palo verde and ironwood; undergrowth, sagebrush, greasewood, cacti and catclaw.

North, bet. secs. 7 and 12.

Over rolling land, through scattering timber and undergrowth.

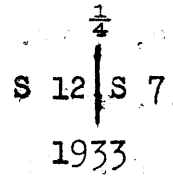
14.70 Shallow sandy wash, 30 lks. wide, course W.

18.50 Dim road, bears N. 80° E., and S. 80° W.

21.30 Wash, 10 lks. wide, 3 ft. deep, course W.

34.10 Wash, 15 lks. wide, 5 ft. deep, course W.

40.00 Set an iron post, 3 ft. long, 1 in. diam., 30 ins. in the ground, for $\frac{1}{4}$ sec. cor., with brass cap mkd.



from which

An ironwood, 6 ins. diam., bears S. $65\frac{1}{2}^{\circ}$ E., 62 lks. dist., mkd. $\frac{1}{4}$ S 7 B T.

An ironwood, 8 ins. diam., bears S. 10° W., 116 lks. dist., mkd. $\frac{1}{4}$ S 12 B T.

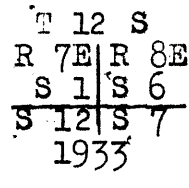
42.50 Wash, 20 lks. wide, 3 ft. deep, course W.

58.60 Shallow wash, 50 lks. wide, course W.

61.40 Dim road, bears NW. and SE.

67.70 Wash, 20 lks. wide, 3 ft. deep, course W.

80.00 Set an iron post, 3 ft. long, 2 ins. diam., 30 ins. in the ground, for cor. of secs. 1, 6, 7 and 12, with brass cap mkd.



from which

A palo verde, 6 ins. diam., bears N. $71\frac{1}{2}^{\circ}$ E., 140 lks. dist., marked in bark, T 12 S R 8 E S 6 B T.

No other suitable trees available; raise a mound of stone, 3 ft. base, 2 ft. high, W. of cor.

Land, rolling.
Soil, gravelly and rocky; 3rd rate.
Timber, palo verde and ironwood; undergrowth, sagebrush, greasewood, cacti and catclaw.

A PORTION OF THE EAST BOUNDARY OF T. 12 S., R. 7 E.

Chains	
	North, bet. secs. 1 and 6.
	Over rough rolling land, through scattering timber and undergrowth.
14.00	Wash, 15 lks. wide, course W.
24.30	Wash, 30 lks. wide, course NW.
29.20	Wash, 40 lks. wide, 8 ft. deep, course W.
40.00	Set an iron post, 3 ft. long, 1 in. diam., 10 ins. in the ground to bedrock, and in a mound of stone to top, for $\frac{1}{4}$ sec. cor., with brass cap mkd.
	$\frac{1}{4}$ S 1 S 6 1933 from which
	An ironwood, 6 ins. diam., bears N. 36° E., 96 lks. dist., mkd. $\frac{1}{4}$ S 6 B T.
	A palo verde, 5 ins. diam., bears N. 31 $\frac{1}{2}$ ° W., 58 lks. dist., mkd. $\frac{1}{4}$ S 1 B T.
46.50	Wash, 10 lks. wide, 4 ft. deep, course SW.
50.60	Dim road, bears NE. and SW.
53.30	Shallow wash, 10 lks. wide, course N. 60° W.
73.35	Wash, 10 lks. wide, 5 ft. deep, course W.
79.60	Dim road, bears N. 80° W., and S. 80° E.
80.00	Set an iron post, 3 ft. long, 1 in. diam., 30 ins. in the ground, for lot cor., with brass cap mkd.
	S 1 S 6 1933 from which
	A palo verde, 7 ins. diam., bears S. 68 $\frac{1}{2}$ ° E., 88 lks. dist., mkd. L S 6 B T.
	A palo verde, 6 ins. diam., bears N. 14° W., 38 lks. dist., mkd. L S 1 B T.
83.90	Wash, 100 lks. wide, 3 ft. deep, course NW.
89.80	Wash, 10 lks. wide, 8 ft. deep, course W.
104.54	Intersect the S. bdy. of T. 11 S., R. 8 E.
	Set an iron post, 3 ft. long, 3 ins. diam., 30 ins. in the ground, for closing corner of Tps. 12 S., Rs. 7 and 8 E., with brass cap mkd.
	T 11 S. R 8 E S 31 S 1 S 6 R 7 E R 8 E T 12 S C C 1933 from which

A PORTION OF THE EAST BOUNDARY OF T. 12 S., R. 7 E.

4000

Chains

A palo verde, 5 ins. diam., bears S. $33\frac{1}{4}^{\circ}$ E., 84 lks. dist., mkd. T 12 S R 8 E S 6 C C B T.

An ironwood, 7 ins. diam., bears S. $16\frac{1}{2}^{\circ}$ W., 47 lks. dist., mkd. T 12 S R 7 E S 1 C C B T.

From point of intersection the SW. cor. of Tp. 11 S., R. 8 E., bears W., 55.76 chs. dist.; an iron post, 3 ins. diam., 10 ins. above ground, firmly set, marked and witnessed as described in the official record.

From the same point the $\frac{1}{4}$ sec. cor. on S. bdy. of sec. 31, T. 11 S., R. 8 E., bears East, 46.36 chs. dist.; an iron post, 1 in. diam., 4 ins. above ground, firmly set, marked and witnessed as described in the official record.

Land, rolling.
Soil, gravelly and rocky; 3rd rate.
Timber, palo verde and ironwood; undergrowth, sagebrush, cacti and catclaw.

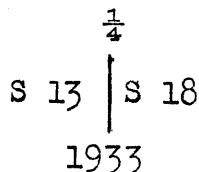
A PORTION OF THE EAST BOUNDARY OF T. 12 S., R. 6 E.

Beginning at the cor. of secs. 13, 18, 19 and 24 on the E. bdy. of T. 12 S., R. 6 E., which is an iron post, 2 ins. diam., 5 ins. above ground, firmly set, marked and witnessed as described in the official record.

North, bet. secs. 13 and 18.

Over nearly level land, through scattering timber and undergrowth.

40.00 Set an iron post, 3 ft. long, 1 in. diam., 30 ins. in the ground, for $\frac{1}{4}$ sec. cor., with brass cap mkd.

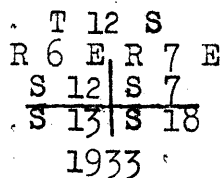


from which

A mesquite, 12 ins. diam., bears N. 54° E., 101 lks. dist., mkd. $\frac{1}{4}$ S 18 B T.

A mesquite, 7 ins. diam., bears N. $46\frac{3}{4}^{\circ}$ W., 78 lks. dist., mkd. $\frac{1}{4}$ S 13 B T.

80.00 Set an iron post, 3 ft. long, 2 ins. diam., 32 ins. in the ground, for cor. of secs. 7, 12, 13 and 18, with brass cap mkd.



from which

A mesquite, 8 ins. diam., bears N. $21\frac{1}{2}^{\circ}$ E., 80 lks. dist., mkd. T 12 S R 7 E S 7 B T.

An ironwood, 14 ins. diam., bears S. $3\frac{3}{4}^{\circ}$ E., 279 lks. dist., mkd. T 12 S R 7 E S 18 B T.

An ironwood, 7 ins. diam., bears S. $42\frac{1}{2}^{\circ}$ W., 135 lks. dist., mkd. T 12 S R 6 E S 13 B T.

A mesquite, 6 ins. diam., bears N. $27\frac{3}{4}^{\circ}$ W., 84 lks.

A PORTION OF THE EAST BOUNDARY OF T. 12 S., R. 6 E.

Chains	dist., mkd. T 12 S R 6 E S 12 B T. Land, nearly level. Soil, sandy and gravelly; 2nd rate. Timber, ironwood, mesquite and palo verde; undergrowth, greasewood, sagebrush, cacti and catclaw.
40.00	North, bet. secs. 7 and 12. Over nearly level land, through scattering timber and undergrowth. Set an iron post, 3 ft. long, 1 in. diam., 30 ins. in the ground, for $\frac{1}{4}$ sec. cor., with brass cap mkd. $\begin{array}{c} \frac{1}{4} \\ S\ 12\ \ S\ 7 \\ 1933 \end{array}$ from which An ironwood, 8 ins. diam., bears S. $4\frac{1}{4}^{\circ}$ E., 327 lks. dist., mkd. $\frac{1}{4}$ S. 7 B T. An ironwood, 14 ins. diam., bears S. $6\frac{3}{8}^{\circ}$ W., 65 lks. dist., mkd. $\frac{1}{4}$ S 12 B T.
59.80	Shallow wash, 10 lks. wide, course W.
63.90	Shallow wash, 6 lks. wide, course W.
80.00	Set an iron post, 3 ft. long, 2 ins. diam., 30 ins. in the ground, for cor. of secs. 1, 6, 7 and 12, with brass cap mkd. $\begin{array}{c} T\ 12\ S \\ R\ 6\ E\ R\ 7\ E \\ S\ 1\ \ S\ 6 \\ S\ 12\ \ S\ 7 \\ 1933 \end{array}$ from which A palo verde, 8 ins. diam., bears N. $9\frac{1}{2}^{\circ}$ E., 400 lks. dist., mkd. T 12 S R 7 E S 6 B T. A mesquite, 10 ins. diam., bears S. $33\frac{1}{4}^{\circ}$ E., 227 lks. dist., mkd. T 12 S R 7 E S 7 B T. An ironwood, 8 ins. diam., bears N. $36\frac{1}{2}^{\circ}$ W., 298 lks. dist., mkd. T 12 S R 6 E S 1 B T. No other trees available; pits impracticable because of small washes spreading. Land, nearly level. Soil, sandy and gravelly, 2nd rate. Timber, mesquite, palo verde and ironwood; undergrowth, greasewood, sagebrush and cacti.
36.00	North, bet. secs. 1 and 6. Over nearly level land, through scattering timber and undergrowth. Shallow wash, 10 lks. wide, course N. 70° W.
39.10	Shallow wash, 8 lks. wide, course N. 60° W.

A PORTION OF THE EAST BOUNDARY OF T. 12 S., R. 6 E.

4093

Chains

40.00 Set an iron post, 3 ft. long, 1 in. diam., 30 ins. in the ground, for $\frac{1}{4}$ sec. cor., with brass cap mkd.

$\frac{1}{4}$
S 1 | S 6
1933

from which

A palo verde, 12 ins. diam., bears S. $4\frac{1}{2}^\circ$ E., 98 lks. dist., mkd. $\frac{1}{4}$ S 6 B T.

A mesquite, 7 ins. diam., bears N. $75\frac{1}{2}^\circ$ W., 111 lks. dist., mkd. $\frac{1}{4}$ S 1 B T.

56.25 Shallow wash, 10 lks. wide, course W.

80.00 Set an iron post, 3 ft. long, 1 in. diam., 30 ins. in the ground, for lot cor., with brass cap mkd.

S 1 - $\frac{1}{8}$ | $\frac{4}{5}$ - S 6
1933

dig pits,

18x18x12 ins., N. and S. of post, 3 ft. dist.

No suitable trees available.

85.10 Shallow wash, 15 lks. wide, course W.

88.90 Intersect S. bdy. of T. 11 S., R. 7 E.

Set an iron post, 3 ft. long, 3 ins. diam., 30 ins. in the ground, for closing cor. of Tps. 12 S., Rs. 6 and 7 E., with brass cap mkd.

T 11 S R 7 E
S 31
S 1 | S 6
R 6 E | R 7 E
T 12 S
C C
1933

from which

A palo verde, 9 ins. diam., bears S. $32\frac{3}{4}^\circ$ E., 232 lks. dist., mkd. T. 12 S R 7 E S 6 C C B T.

A mesquite, 8 ins. diam., bears S. $42\frac{1}{4}^\circ$ W., 252 lks. dist., mkd. T 12 S R 6 E S 1 C C B T.

From point of intersection the $\frac{1}{4}$ sec. cor., on the S. bdy. of sec. 31, T. 11 S., R. 7 E., bears West, 12.73 chs. dist.; and iron post, 1 in. diam., 10 ins. above ground, firmly set, marked and witnessed as described in the official record.

From the same point the cor. of secs. 31 and ³², T. 11 S., R. 7 E., bears East, 27.27 chs. dist.; an iron post, 3 ins. diam., 8 ins. above ground, firmly set, marked and witnessed as described in the official record.

Land, nearly level.

Soil, sandy and gravelly; 2nd rate.

Timber, mesquite, palo verde and ironwood; undergrowth, greasewood, sagebrush, cacti and catclaw.

RESURVEY OF SUBDIVISIONAL LINE, T. 12 S., R. 6 E.

Chains

From the $\frac{1}{4}$ sec. cor., bet. secs. 18 and 19, T. 12 S., R. 6 E.,

S. $89^{\circ} 59' W.$, on a random line bet. secs. 18 and 19,

36.45 Set temp. cor. of secs. 13, 18, 19 and 24, Tps. 12 S., Rs. $5\frac{1}{2}$ and 6 E.

145.09 Intersect the cor. of secs. 13, 18, 19 and 24, Tps. 12 S., Rs. 5 and 6 E., which is an iron post, 2 ins. diam., 10 ins. above ground, firmly set, marked and witnessed as described in the official record. This post now refers to Rs. 5 and $5\frac{1}{2}$ E., and the marks are altered to read as follows;

T 12 S	
R 5 E	R $5\frac{1}{2}$ E
S 13	S 14
S 24	S 23
1925	

The marks on the original bearing trees in R. $5\frac{1}{2}$ E. are altered to read as follows:

An ironwood, 12 ins. diam., bears N. $42\frac{1}{4}^{\circ}$ E., 391 lks. dist., mkd. T 12 S R $5\frac{1}{2}$ E S 14 B T.

A palo verde, 10 ins. diam., bears S. 72° E., 304 lks. dist., mkd. T 12 S R $5\frac{1}{2}$ E S 23 B T.

Returning to the $\frac{1}{4}$ sec. cor., bet. secs. 18 and 19, which is an iron post, 1 in. diam., 12 ins. above ground, firmly marked and witnessed as described in the official record.

Thence,

S. $89^{\circ} 59' W.$, on true line bet. secs. 18 and 19.

Over nearly level land, through scattering timber and undergrowth.

15.50 Shallow sandy wash, 20 lks. wide, course NE. Enter gently rolling land.

36.45 At this point allowing for convergency and departure of the east boundary of T. 12 S., R. 6 E.

Set an iron post, 3 ft. long, 2 ins. diam., 30 ins. in the ground, for cor. of secs. 13, 18, 19 and 24, with brass cap mkd..

T 12 S	
R $5\frac{1}{2}$ E	R 6 E
S 13	S 18
S 24	S 19
1933	

18x18x12 ins., in each sec., 3 ft. dist.

dig pits,

Land, gently rolling.

Soil, sandy and gravelly; 2nd rate.

Timber, mequite and palo verde; undergrowth, greasewood.

A PORTION OF THE EAST BOUNDARY OF T. 12 S., R. 5½ E.

S. 4093

Chains

Beginning at the cor. of secs. 13, 18, 19 and 24, on the E. bdy. of T. 12 S., R. 5½ E., hereinbefore described.

North, bet. secs. 13 and 18.

Over gently rolling land, through scattering timber and undergrowth.

21.20 Wash, 15 lks. wide, 1 ft. deep, course E., general course NE.

34.30 Wash, 10 lks. wide, 6 ft. deep, course E.

40.00 Set an iron post, 3 ft. long, 1 in. diam., 30 ins. in the ground, for ¼ sec. cor., with brass cap mkd.

¼
S 13 | S 18

1933

from which

A mesquite, 6 ins. diam., bears N. 7½° E., 177 lks. dist., mkd. ¼ S 18 B T.

A mesquite, 6 ins. diam., bears N. 44° W., 140 lks. dist., mkd. ¼ S 13 B T.

49.90 Wash, 6 lks. wide, 2 ft. deep, course E.

71.30 Wash, 8 lks. wide, 1 ft. deep, course NE.

80.00 Set an iron post, 3 ft. long, 2 ins. diam., 30 ins. in the ground, for cor. of secs. 7, 12, 13 and 18, with brass cap mkd.

T 12 S
R 5½ E R 6 E
S 12 | S 7
S 13 | S 18

1933

from which

A mesquite, 8 ins. diam., bears N. 2½° E., 346 lks. dist., mkd. T 12 S R 6 E S 7 B T.

A palo verde, 5 ins. diam., bears S. 5¼° E., 149 lks. dist., mkd. T 12 S R 6 E S 18 B T.

A palo verde, 8 ins. diam., bears S. 19° W., 228 lks. dist., mkd. T 12 S R 5½ E S 13 B T.

A mesquite, 4 ins. diam., bears N. 75¾° W., 128 lks. dist., mkd. B T only.

Land, nearly level.

Soil, sandy loam, 1st rate.

Timber, mesquite, palo verde and ironwood; undergrowth, greasewood, sagebrush, catclaw and cacti.

North, bet. secs. 7 and 12.

Over nearly level land, through scattering timber and undergrowth.

40.00 Set an iron post, 3 ft. long, 1 in. diam., 30 ins. in the ground, for ¼ sec. cor., with brass cap mkd.

A PORTION OF THE EAST BOUNDARY OF T. 12 S., R. 5 $\frac{1}{2}$ E.

Chains

$$\begin{array}{c} \frac{1}{4} \\ \text{S } 12 \mid \text{S } 7 \\ 1933 \end{array}$$

from which

A mesquite, 7 ins. diam., bears S. 2 $\frac{1}{4}$ ° E., 341 lks.
dist., mkd. $\frac{1}{4}$ S 7 B T.

A mesquite, 5 ins. diam., bears N. 48 $\frac{1}{2}$ ° W., 156 lks.
dist., mkd. $\frac{1}{4}$ S 12 B T.

80.00 Set an iron post, 3 ft. long, 2 ins. diam., 30 ins. in the
ground, for cor. of secs. 1, 6, 7 and 12, with brass cap
mkd.

$$\begin{array}{c} \text{T } 12 \text{ S} \\ \text{R } 5\frac{1}{2} \text{ E} \mid \text{R } 6 \text{ E} \\ \text{S } 1 \mid \text{S } 6 \\ \text{S } 12 \mid \text{S } 7 \\ 1933 \end{array}$$

from which

A mesquite, 8 ins. diam., bears S. 56° W., 130 lks.
dist., mkd. T 12 S R 5 $\frac{1}{2}$ E S 12 B T.

No other suitable tree; dig pits, 18x18x12 ins. in
each sec., 3 ft. dist.

Land, nearly level.

Soil, sandy loam; 1st rate.

Timber, mesquite and palo verde; undergrowth, greasewood,
sagebrush, catclaw and cacti.

North, bet. secs. 1 and 6.

Over nearly level land, through scattering timber and
undergrowth.

20.30 Shallow wash, 8 lks. wide, course NE.

40.00 Set an iron post, 3 ft. long, 1 in. diam., 30 ins. in the
ground, for $\frac{1}{4}$ sec. cor., with brass cap mkd.

$$\begin{array}{c} \frac{1}{4} \\ \text{S } 1 \mid \text{S } 6 \\ 1933 \end{array}$$

from which

A mesquite, 5 ins. diam.; bears S. 51° E., 55 lks.
dist., mkd. $\frac{1}{4}$ S 6 B T.

A mesquite, 6 ins. diam., bears N. 33 $\frac{3}{4}$ ° W., 386 lks.
dist., mkd. $\frac{1}{4}$ S 1 B T.

80.00 Set an iron post, 3 ft. long, 1 in. diam., 30 ins. in the
ground, for lot cor., with brass cap mkd.

$$\begin{array}{c} \text{S } 1 \mid \frac{1}{4} \mid \text{S } 6 \\ \quad \quad \quad \frac{1}{5} \\ 1933 \end{array}$$

dig pits,

18x18x12 ins., N. and S. of post, 3 ft. dist.

No suitable bearing trees available.

A PORTION OF THE EAST BOUNDARY OF T. 12 S., R. 5½ E.

BOOK 4098

Chains

89.00

Intersect the S. bdy. of T. 11 S., R. 6 E.

Set an iron post, 3 ft. long, 3 ins. diam., 30 ins. in the ground, for closing cor. of Tps. 12 S., Rs. 5½ and 6 E., with brass cap mkd.

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T 11 S R 6 E
  S 31
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S 1 S 6
R 5½ E R 6 E
T 12 S
  C C
  1933

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18x18x12 ins., E., W. and S. of post, 3 ft. dist. dig pits,

From point of intersection the ¼ sec. cor., on the S. bdy. of sec. 31, T. 11 S., R. 6 E., bears West, 14.54 chs. dist.; an iron post, 1 in. diam., 10 ins. above ground, firmly set, marked and witnessed as described in the official record.

From the same point the cor. of secs. 31 and 32, T. 11 S., R. 6 E., bears East, 25.46 chs. dist.; an iron post, 3 ins. diam., 8 ins. above ground, firmly set, marked and witnessed as described in the official record.

Land, nearly level.

Soil, sandy loam; 1st rate.

Timber, mesquite and palo verde; undergrowth, greasewood, mesquite, sagebrush, catclaw and cacti.

FINAL TEST OF SOLAR ATTACHMENT.

December 16: On the camp meridian hereinbefore described at 3h 00m p.m., app. t., I set off 32° 22' N., on the lat. arc; 23° 18' S., on the decl. arc; and orient the instrument with the solar; the line of sight agrees with the meridian established by Polaris observation.

December 17: at the same station at 9h 00m a.m., app. t. I set off 32° 22' N., on the lat. arc; 23° 24' S., on the decl. arc; and repeat the test of the solar; the line of sight agrees with the meridian established by Polaris observation.

December 17, 1933.

GENERAL DESCRIPTION.

The foregoing field notes describe the surveys of the east boundaries of the north half of Tps. 12 S., Rs. 5½, 6 and 7 E. The east boundary of range 7 follows near the west base of a short range of mountains, while the east boundary of range 5½ follows near the east base of another range of mountains. The area covered by ranges 6 and 7 E. is nearly level and is a part of a rather extensive plain.

The soil is gravelly and sandy with more or less agricultural possibilities if proper irrigation could be obtained.

The timber consists of palo verde, mesquite and iron-wood of value for fence posts and fuel.

No settlers or living water was noted within the north half of Tps. 12 S., Rs. 6 and 7 E.

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4-680
(August, 1926)

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FIELD ASSISTANTS.

NAMES.	CAPACITY.
Herman Shafer	Chainman.
Walter Harbold	Chainman.
Glen Greenhaw	Flagman.
Orland Parks	Axman.
Clifton Lewis	Moundman.

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BOOK 4093

CERTIFICATE OF UNITED STATES SURVEYOR

I, Francis E. Joy, U.S. Cadastral Engineer hereby certify upon honor that, in pursuance of special instructions received from the District Cadastral Engineer for Arizona bearing date of the 15th day of November, 1933, 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 a portion of the East boundaries of Townships 12 South, Ranges 5, 6 and 7 East; and resurveyed the West half of the line between sections 18 and 19, Township 12 South, Range 7 East,

of the Gila and Salt River Meridian, in the State of Arizona, which are represented in the foregoing field notes as having been executed by me, and under my direction; and that all the corners of and resurvey said survey have been established and perpetuated in strict accordance with the Manual of Surveying Instructions, and the special written instructions of the District Cadastral Engineer for Arizona and in the specific manner described in the field notes, and that the foregoing are the original field notes of such survey and resurvey.
Glendale, California,
November 2, 1934.

Francis E. Joy
 U. S. Cadastral Engineer. U.S.S. Surveyor.

APPROVAL

OFFICE OF U. S. SUPERVISOR OF SURVEYS,
 Denver, Colorado, June 24, 1935.

The foregoing field notes of the survey of a portion of the East boundaries of Townships 12 South, Ranges 5, 6 and 7 East; and the survey of the West half of the line between sections 18 and 19, Township 12 South, Range 7 East, of the Gila and Salt River Meridian, in the State of Arizona,

executed by Francis E. Joy, U.S. Cadastral Engineer, under his special instructions dated November 15, 1933, ~~19~~, having been critically examined, and the necessary corrections and explanations made, the said field notes, and the surveys and resurveys they describe, are hereby approved.

Monte J. Moran
 U. S. Supervisor of Surveys.

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

 U. S. Supervisor of Surveys.