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(1)

Standard
BOOK "F"

2512

BOOK 2512

FIELD NOTES

~~OF THE SURVEY~~ OF THE

Retracements and Re Survey of the Sixth Standard Parallel North, through Rs 15, 16 17 and 18 E.

of the Gila and Salt River Base and Meridian,

in the Territory of Arizona

EXECUTED AS ~~SURVEYED~~ BY

Sidney E. Blouh, United States ~~Deputy Surveyor~~, Examiner of Surveys

Under ~~this Contract No.~~ Special Instructions from the Commissioner of the General Land Office, dated Oct 2nd 1907 and May 15th 1908

Survey and retracement commenced February 21st, 1910

Survey and retracement completed March 21st, 1910

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BOOK 2512

NAMES AND DUTIES OF ASSISTANTS.

Van L. White	Compassman
Fred L. Warner	Chainman
Earl Albright	Chainman
Chas L. Stumway	Chainman
Ralph C. Sampson	Meandman
William R. Carson	Flagman
George Harris	Flagman

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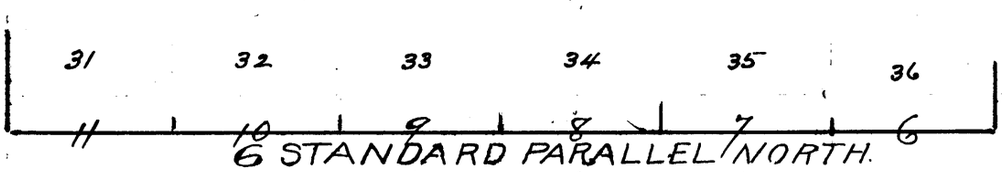
Book No. 2512

INDEX DIAGRAM.

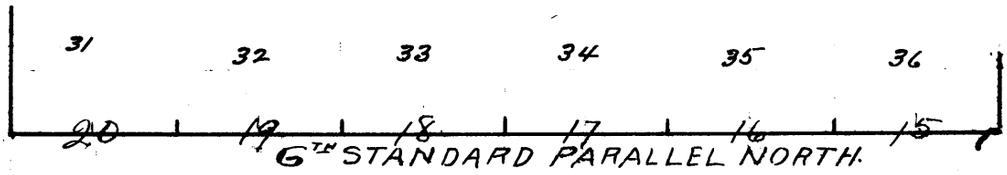
Township ----------, *Range* ----------

T25N., R15E



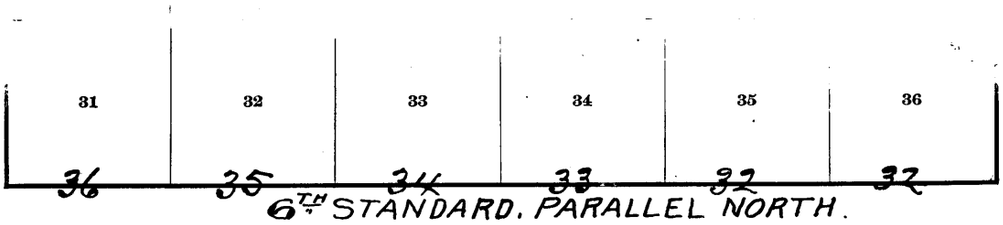
6 STANDARD PARALLEL NORTH.

T25N., R16E



6TH STANDARD PARALLEL NORTH.

T25N., R17E



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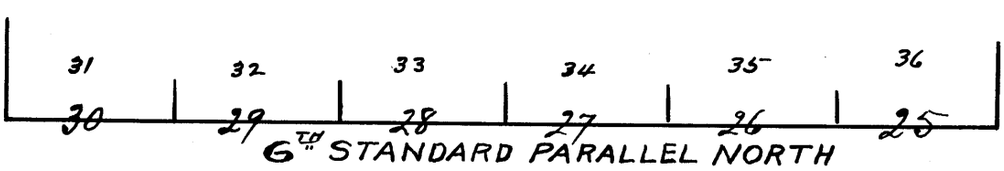
T25N., R18E



6TH STANDARD PARALLEL NORTH

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PRELIMINARY OATHS OF ASSISTANTS.

We, Fred L. Warner, Earl Albright, N. J. White and Chas. L. Shumway do solemnly swear that we will well and faithfully execute the duties of chainmen; that we will level the chain upon even and uneven ground, and plumb the tally pins, either by sticking or dropping the same; that we will report the true distances to all notable objects, and the true lengths of all lines that we assist in measuring, to the best of our skill and ability, and in accordance with instructions given us, in the retracement and resurvey of the Sixth Standard Parallel North through Ranges 15, 16, 17 and 18 East of the G. & S. R. Meridian, Arizona.

N. J. White and Earl Albright, Chainmen.

Chas. L. Shumway and Fred L. Warner, Chainmen.

Subscribed and sworn to before me this 21st day of February, 1910

SEAL

Sidney E. Bloxh
U. S. Examiner of Surveys

I ~~We~~, Ralph Sampson, ~~and~~ do solemnly swear that ~~I~~ we will well and truly perform the duties of moundman in the re-establishment of corners, according to the instructions given ~~me~~ us, to the best of ~~my~~ our skill and ability, in the survey of Retracements and Re-survey of the 6th Stand. Parallel North through Ranges 15-16-17 and 18 East of the G. & S. R. Meridian, Arizona.

Ralph C. Sampson, Moundman.

Subscribed and sworn to before me this 21st day of February, 1910

SEAL

Sidney E. Bloxh
U. S. Examiner of Surveys.

~~We,~~ ~~and~~ ~~do solemnly swear that we will well and truly perform the duties of axmen in the establishment of corners and other duties, according to instructions given us, to the best of our skill and ability, in the survey of~~

~~, Axman.~~

~~, Axman.~~

~~Subscribed and sworn to before me this~~ ~~day of~~ ~~, 19~~

SEAL

We George Harris and William P. Casson, do solemnly swear that we will well and truly perform the duties of flagmen according to instructions given us, to the best of our skill and ability, in the Retracements and Re-survey of the 6th Stand. Parallel North through Ranges 15, 16, 17, 18, 19, 20, 21 and 22 E. Ranges 15, 16, 17 & 18 East of the G. & S. R. Meridian, Arizona.

William P. Casson and George Harris, Flagmen.

Subscribed and sworn to before me this 21st day of February, 1910

SEAL

Sidney E. Bloxh
U. S. Examiner of Surveys

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Retracement Commenced Feb. 21st 1910 and executed with a Young & Sons light mountain transit No 10 with a Smith's solar attachment: the horizontal limb is provided with two double verniers placed opposite to each other reading to single minutes of arc, which is also the least count of the verniers of the latitude and declination arcs.

I examine the adjustments of the transit and correct the level and collimation errors; then to test the solar apparatus by comparing its indications resulting from solar observations made during a.m. and p.m. hours with a meridian, determined by observations on Polaris. I proceed as follows;

Ch. the cor of secs. 13, 18, 19 and 24 on the E. bdry. of Tp 25 N. R 15 E., Latitude 35° 33' N. Longitude 110° 41' 22" W. I set off 35° 33' N on the lat. arc. 10° 33½' S. on the decl. arc and ch. 4h 00m p.m. l.m.t. determine a meridian with the solar, and mark a point thereof by a tack driven in a stake set in the ground 5 chs. N of the cor.

Ch. 9h 18m p.m. l.m.t. by my watch which is correct. local mean time, I observe Polaris ch. western elongation, in accordance with the Manual of Instructions, and mark a point in the line thus determined by a tack driven in a stake set in the ground 5 chs. N. of the cor.

February 21st 1910

Feb. 22nd 1910 At 6h 0m a.m. l.m.t. I lay off the azimuth of Polaris 1° 26½' to the east, and mark the meridian thus determined by a tack driven in the stake already set 5 chs. N. of my station, on which the meridian takes a turn East of the point determined by the solar.

Ch. 7h 30m a.m. l.m.t. I set off 35° 33' N. on the lat. arc. 10° 18½' S. on the decl. arc, and determine

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a meridian with the Solar and mark a point thereof by a tack driven in the stake already set 5 chs. N. of my station, this point falls .04 ins East of the meridian established by the Polaris observation.
The solar apparatus, by p.m. and a.m. observations defines positions for meridians respectively about 0'31" West and 0'21" E. of the meridian established by the Polaris observation; therefore I conclude that the adjustments of the instrument are satisfactory
Preliminary to Commencing the Subdivision of Twp 25 N. R15 E., I retrace and re survey the 6th "Standard Parallel North through this range as follows.
I begin at the Standard Cor. of Twps. 25 N. Rs 14 and 15 E. described in Private Book "J" Latitude 35° 30' 35" N. Longitude 110 47' 45" W which I re established Oct 31-1908.
At this cor. I set off 35° 30 1/2' N. on the lat. arc 10° 18 1/2' S. on the decl. arc and at 9h 30m a.m. l.m.t. determine a meridian with the Solar. Thence I run.
East on a random line on S. bdry sec. 31.
Difference bet. measurements of 40.02 Chs. by two sets of Chainmen is 2 lks. position of middle point.
By 1st Set. 40.01 Chs.
By 2nd Set 40.03 Chs. the mean of which is.

40.02 Wall 22 lks. N. of the old Stand 1/4 sec. Cor. which is a red sand stone. 12x6x4 ins. loosely set. marks nearly effaced no trace of pits and mound.
Course and dist. to line back to the Twp Cor. N 89° 41' W. 40.02 chs.
From the Stand 1/4 sec. Cor. above described I run
East on a random line on S. bdry sec. 31, E half mile.
Difference between measurements of 40.24 Chs. by two sets of chainmen is. 4 lks. position of middle point.
By 1st Set. 40.26 Chs.
By 2nd Set 40.22 Chs. the mean of which is.

40.24 Wall 20 lks. N. of the old Stand Cor. of secs. 31 and 32. which is a soft sand stone. 14x12x3 ins above ground marks. too indistinct to read.—
Trace of pits E and W. of stone.
Course and dist. to line back to the old Stand 1/4 sec. cor.

N 89° 43' W. 40.24 chs.

East on a random line on S bdry sec. 32.
Difference bet. measurements of 40.14 chs. by two sets of Chainmen is. 2 lks., position of middle point.
By 1st Set. 40.15 chs.
By 2nd Set. 40.13 chs. the mean of which is.
40.14 Wall 17 lks. N. of the old Stand. 1/4 Sec. Cor which is a Sand stone 12 x 6 x 2 ins., lying on the ground midway, between point remains of two pits, marked S.C. 1/4.
Course and dist. of line back to the Stand Cor. of secs. 31 and 32.
N 89° 45' W, 40.14 chs.
From the Stand 1/4 sec. cor, above described run
East on a random line on S. bdry. sec 32. Etc. 1/2 mile.
Difference bet measurements of 40.24 chs by two sets of Chainmen is 2 lks, position of middle point
By 1st Set. 40.25 chs.
By 2nd Set. 40.23 chs.; the mean of which is
40.24 Wall 4 lks. S. of the Stand Cor. of secs. 32 and 33. which is a soft sand stone 14 x 6 x 4 ins above ground loosely set., marked with 2 notches on W. edge. other marks effaced., No trace of pits and mound.
Course and dist. of line back to the Stand 1/4 sec cor. [illegible]
S 89° 57' W., 40.24 chs.

East on a random line on S. bdry Sec. 33.
Difference bet measurements of 40.16 chs. by two sets of Chainmen is. 4 lks., position of middle point.
By 1st Set. 40.15 chs.
By 2nd Set. 40.17 chs. the mean of which is.
40.16 Intersect the old Standard 1/4 sec. cor. which is a Sand stone 8 x 4 x 2 ins lying on the ground midway, between indistinct remains of two pits., marked S C 1/4 on lower face.
Course and dist. of line back to the Stand Cor secs 32 and 33.
West, 40.16 chs.
From Stand 1/4 sec. cor, above described run
East on a random line on S bdry. sec 33. E

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half mile.
Difference between measurements of 40.16 Chs. by two sets of Chainmen is, 4 lks. position of middle point.
By 1st Set. 40.18 Chs.,
By 2nd Set 40.14 Chs., the mean of which is.
40.16 Intersect the Stand. Cor. of Secs. 33 and 34. which is a Sand stone 18x14x3 ins lying on the ground., marked 3 notches on opposite edges., dirt remains of md. of earth N. of stone.
Course and dist. of line back to the Stand. 1/4 sec. cor West 40.16 chs.

East on a random line on S.bdry sec. 34.
Difference bet. measurements of 40.23 Chs. by two sets of Chainmen is. 2. lks., position of middle point.
By 1st Set. 40.24. Chs.
By 2nd Set. 40.22 Chs. the mean of which is.
40.23 Mound 3 lks. N. of the Stand. 1/4 sec. Cor. which is a Sand stone 10x8x6 ins lying on the ground midway between remains of two pits, marked S.C. 1/4 on lower face, , Course and dist. of line back to the Stand Cor of secs 33 and 34,
N 89° 57' W. 40.23 chs.
From Stand 1/4 sec. above described Cor, Drun.
East on a random line on S.bdry Sec. 34, E. half mile.
Difference bet. measurements of 40.00 Chs. by two sets of chainmen is 2 lks. position of middle point
By 1st Set. 40.01 Chs.
By 2nd Set. 39.99 Chs. the mean of which is
40.00 Make a diligent search for the old Stand Cor. of secs. 34 and 35 but am unable to find any trace of this cor therefore Continue my line and measurement.
Difference bet measurements of 80.00 Chs by two sets of Chainmen is 6 lks., position of middle point
By 1st set. 80.03 Chs.
By 2nd Set 79.97 Chs. the mean of which is.
80.00 Make a diligent search for the old Stand 1/4 sec. cor on S. bdy. of sec. 35., but fail to find

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any. evidence of ih., therefore I continue my BOOK 2512
Chs and measurements.
Difference bet. measurements of 120.48 Chs. by.
two sets of Chainmen is. 6 lks. position of middle
point.
By. 1st Set. 120.51 Chs.
By. 2nd Set. 120.45 Chs. the mean of which is.
120.48 Wall 15 lks. S. of the old Stand Cor. of secs. 35 and
36, which is a Sand stone 12 x 6 x 5 ins above
ground. marks nearly obliterated, no trace
of pits and mound.
Course and dist. of line back to the Std. 1/4 sec. cor. on S.
bdry of sec. 34, S. 89° 56' W. 120.48 chs.

East on a random line on S. bdry. sec. 36.
Difference bet measurements of 40.14 Chs. by.
two sets of Chainmen is 4 lks., position of middle
point,
By 1st Set. 40.16 Chs.
By 2nd Set. 40.12 Chs. the mean of which is.
40.14 Wall 3 lks. N. of the Stand 1/4 sec. Cor. which is a
Sand stone, 6 x 4 x 4 ins, loosely set; marked S.C. 1/4
on N. face., No trace of pits and mound.
Course and dist. of line back to the Stand Cor. of secs. 35
and 36. N 89° 57' W. 40.14 chs.
From Stand 1/4 sec. cor. above described Drive
East on a random line on S. bdry, sec. 36. E.
half. mile.
Difference bet. measurements of 40.17 Chs. by
two sets of Chainmen is. 4 lks. position of
middle point.
By 1st Set. 40.19 Chs.
By 2nd Set. 40.15 Chs. the mean of which is
40.17 Wall 2 lks. N. of the Stand. Cor. of Pps. 23-71.
Pits 15 and 166 described in Exterior Book "I" which I re established
Dec. 28 1908.
Course and dist. of line back to the Stand 1/4 sec. cor
N 89° 58' W, 40.17 chs.

NOTE Clouds obscure the Sun at noon today. rendering an
observation for Lat. impossible.

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I find from my retracement of this line that all of the closing cors. of subdivisions in Tp 24N. R.15E., and some of the Std. 1/4 sec. and sec. Corners are missing, and the greater portion of those, std. 1/4 sec. and sec. cors. that remain are in a state of dilapidation, the stones being of a friable nature and greatly disintegrated, through exposure to the weather. Since subdivisional lines have been closed on this line from the South. I re survey the line, preserving the original alignment reestablishing the defective original std. 1/4 sec. and sec. Corners, in their original position and reestablishing new std. 1/4 sec. and sec. Corners in place of the missing ones, at proportional distances, on a true line, between such old std. 1/4 sec. and sec. cors. as I find.

Feb. 22nd 1910 At 1h 00m p.m. l.m.t. set off 35° 30½' W. on the lat. arc. 10° 16½' S. on the decl. arc and determine a meridian with the solar at the Standard Cor. of Mps. 25 N., Rs 15 and 16 E, re-estab. by me in October 1908 and described in Exterior Book "I"

Thence I run,

N 89° 58' W. on a true line on S. bdry. Sec. 36.

Descend W. slope over hilly sandy land through scattering sage brush undergrowth and bunch grass

Difference bet. measurements of 40.17 Chs. by two sets of Chainmen is 4 lks. position of middle point

By 1st Set. 40.19 Chs.

By 2nd Set 40.15 Chs. the mean of which is

40.17 Intersect the Old Stand ¼ sec. Cor., hereinbefore described. This Cor. being in a state of dilapidation & destroy all trace of the original Cor. and reestablish it in its original position as follows;

Set an iron post 3 ft. long, 1 in. in diam. 26 ins. in the ground for Stand ¼ sec. cor. marked on brass Cap. 1/4 S. 36 on N. half.,

Dig pits 18 x 18 x 12 ins. E and W. of post 3 ft. dist and raise a mound of earth 3½ ft base, 1½ ft. high. N. of Cor. Thence I run, continuing measurement from Tp. cor. N. 89° 57' W. on a true line

64.00 Leave hilly land bears N 50° E and S 50° W., enter level bottom land.

Difference bet. measurements of 80.31 Chs. by two sets of Chainmen is 8 lks., position of middle point.

By 1st Set. 80.35 Chs.

By 2nd Set. 80.27 Chs. the mean of which is.

80.31 Intersect the old stand Cor. of sees. 35 and 36.

hereinbefore described, I destroy all evidence of this corner and re establish it in its original position as follows;
Set an iron post 3 ft. long, 3 ins. in diam., 24 ins. in the ground for Standard Cor. of Secs. 35 and 36. marked on brass Cap. T 25 N. S 35 in N.W. and R 15 E. S 36 in N.E. quadrant, Dig pits 24 x 18 x 12 ins. Crosswise on each line E and W. 3 ft. and N. of post 7 ft. dish. and raise a mound of earth. 4 ft base, 2 ft. high. N. of cor.
Land. level and hilly.
Soil sandy and adobe 2nd and 3rd rate.
No timber

S 89° 56' W. on a true line on S. bdry Sec. 35,
Over level sandy and adobe bottom land through scattering sage brush undergrowth.
Difference bet. measurements of 40,16 chs. by two sets of chainmen is .02 chs. position of middle point
By 1st Set. 40,17 chs.
By 2nd Set. 40,16 chs. the mean of which is.

40,16 Set an iron post 3 ft. long, 1 in. in diam. 26 ins. in the ground for re-established Stand. 1/4 Sec. Cor. on brass cap marked 1/4 S 35 on N. half.
Dig pits 18 x 18 x 12 ins. E and W. of post. 3 ft. dish. and raise a mound of earth 3 1/2 ft. base 1 1/2 ft. high. N. of cor.

57,48 Center of the Palace Wash 100 lks. wide, 2 ft. deep. Course S 30° W.
Difference bet. measurements of 80,32 chs. by two sets of chainmen is. 2 lks. position of middle point.
By 1st Set. 80,33 Chs.
By 2nd Set 80,31 Chs. the mean of which is.

80,32 Set an iron post 3 ft. long. 3 ins. in diam, 24 ins. in the ground for re-established Stand Cor. of secs. 34 and 35 - marked on brass Cap. T 25 N. S. 34 in N.W. and R 15 E S 35 in N.E. quadrant.
Dig pits 24 x 18 x 12 ins. Crosswise on each line E and W. 3 ft. and N. of post. 7 ft. dish. and raise a mound of earth. 4 ft. base, 2 ft. high.

Resurvey of the 6th Standard Parallel North through R. 15 E.
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W. of cor.
Land level.
Soil sandy and adobe 2nd rate.
No timber

S 89° 56' W. on a true line on S. bdry sec. 34.
Over level sandy and adobe bottom land, through
scattering sagebrush undergrowth.
Difference bet. measurements of 40.16 chs. by
two sets of chainmen is .2 lks, position of middle
point,
By 1st Set. 40.15 chs.
By 2nd Set. 40.17 chs. the mean of which is
40.16 Intersect the old Standard ¼ sec. cor. hereinbefore
described.
Destroy all evidence of this cor. and reestablish
it in its original position as follows.
Set an iron post 3 ft. long, 1 in. in diam. 26 ins.
in the ground for Stand. ¼ sec. cor. marked
on brass cap ¼ S 34 on N. half.
Dig pits 18×18×12 ins. E and W. of post 3 ft.
dist. and raise a mound of earth 3½ ft. base
1½ ft. high. N. of cor.
Thence Drive, on true line on S. bdy. of sec. 34
N. 89° 57' W. on W. half mile, continuing measurement
Difference between measurements of 80.39 chs.
by two sets of Chainmen is .4 lks., position of
middle point.
By 1st Set. 80.41 chs.
By 2nd Set. 80.37 chs. the mean of which is
80.39 Intersect the old Standard Cor. of secs. 33 and
34. hereinbefore described.
Destroy all evidence of this cor. and reestablish
it in its original position as follows.;
Set an iron post 3 ft. long, 3 ins. in diam. 24 ins.
in the ground for Stand. Cor. of secs. 33 and 34
marked on brass cap T 25 N. S. 33 in N.W. and
R 15 E S 34 in N.E. quadrants.
Dig pits 24×18×12 ins. Crosswise on each line
East W. 3 ft. and N. of post 7 ft. dist, and
raise a mound of Earth 4 ft. base 2 ft. high.

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N. of cor
Land level bottom.
Soil sandy and adobe 2nd rate.
No timber.

West on a true line on S. bdry. sec 33.
Over level sandy bottom land through scattering sage and greasewood brush undergrowth.
Difference bet measurements of 40.16 chs by two sets of chainmen is .4 lks., position of middle point.
By 1st Set. 40.18 chs.
By 2nd Set. 40.14 chs. the mean of which is.

40.16 Intersect the old Stand 1/4 sec. cor. hereinbefore described
Destroy all evidence of this cor. and re establish
ish, in its original position as follows;
Set an iron post 3 ft. long, 1 in. in diam. 26 ins.
in the ground for Stand 1/4 sec. cor. marked on
brass cap 1/4 S 33 on N, half
Dig pits 18 x 18 x 12 ins. E and W. of post 3 ft. dist.
and raise a mound of earth 3 1/2 ft. base, 1 1/2 ft.
high N. of cor.

56.16 Top of sand ridge 15 ft. high. bears N.E. and S.E.
desc..

67.45 Road from Winslow Arizona to Polacca Arizona
bears N. E and S. W.
Difference bet. measurements of 80.32 chs. by two
sets of chainmen is. 4 lks., position of middle point
By 1st Set. 80.34 chs.
By 2nd Set. 80.30 chs. the mean of which is.

80.32 Intersect the old Stand. Cor. of secs. 32 and 33.
hereinbefore described.
Destroy all evidence of this cor. and re establish
ish, in its original position as follows.
Set an iron post 3 ft. long, 3 ins. in diam. 24 ins.
in the ground for Stand cor. of secs. 32 and 33
marked on brass Cap. T 25 N. S. 32 in N.W. and
R 15 E S 33 in N.E. quadrant.
Dig pits 24 x 18 x 12 ins. Crosswise on each line
E and W. 3 ft. and N. of post 7 ft. dist. and raise a
mound of earth 4 ft. base, 2 ft. high. N. of cor.

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Land level and rolling.
Soil Sandy and adobe 2nd rate.
No timber

S 89° 57' W on a true line on S. bdry. Sec. 32.
Ascend gradually over S.E. slopes over rolling sand hills through scattering sage and greasewood brush undergrowth and bunch grass.
Difference bet. measurements of 40.24 Chs. by two sets of Chainmen is 2 lks, position of middle point.
By 1st Set. 40.25 Chs.
By 2nd Set. 40.23 Chs. the mean of which is
40.24 Intersect the old Stand 1/4 Sec. Cor. hereinbefore described.
Destroy all evidence of this Cor. and re establish it in its original position as follows:
Set an iron post 3 ft. long 1 in in diam. 26 ins in the ground for Stand 1/4 Sec. Cor. marked on brass Cap. 1/4 S 32 on N. half.
Dig pits 18 x 18 x 12 ins. E and W. of post 3 ft. dist. and raise a mound of earth 3 1/2 ft. base, 1 1/2 ft. high N. of Cor. Thence Run, on a true line
N 89° 45' W. on W. half mile, continuing measurement
76.00 Nop. of ascends on ridges between the Palacca and Crabi Washes. bears N.E. and S.W. descends gradually over N.W. slopes
Difference bet. measurements of 80.38 Chs. by two Sets of Chainmen is 4 lks., position of middle point.
By 1st Set. 80.40 Chs.
By 2nd Set 80.36 Chs. the mean of which is
80.38 Intersect the old Stand. Cor. of secs. 31 and 32 hereinbefore described.
Destroy all evidence of this Cor and re establish it in its original position as follows:
Set an iron post 3 ft. long 3 ins. in diam. 24 ins. in the ground for Stand. Cor. of secs. 31 and 32. marked on brass Cap. T 25 N. S 31 in N.W. R 15 E. S. 32 in N.E. quadrant
Dig pits 24 x 18 x 12 ins. crosswise on each line

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E and W. 3 ft. and 76 cf. post. 7 ft. dist. and raise a mound of earth 4 ft. base, 2 ft. high. N. cf. cor
Land rolling sand hills.
Soil sandy 3rd rate.
No timber

N 89° 43' W. on a true line on S. bdry. sec. 31 descend gradually over N.W. slope, over rolling sand hills. through scattering sage and greasewood brush undergrowth and bunch grass.
Difference bet. measurements of 40.24 chs. by two sets of chainmen is 4 lks. position of middle point.
By 1st set. 40.26 chs.
By 2nd set 40.22 chs.; the mean of which is
40.24 Intersect the Stand. 1/4 sec. cor. hereinbefore described.
Destroy all evidence of the old. cor. and reestablish it in its original position as follows.,
Set an iron post 3 ft. long. 1 in. in diam. 26 ins. in the ground for Stand 1/4 sec. cor. marked on brass Cap. 1/4 331 on N. half.
Dig pits 18 x 18 x 12 ins. E and W. of post. 3 ft. dist. and raise a mound of earth 3 1/2 ft. base. 1 1/2 ft. high N. cf. cor
Thence N. run on a true line, continuing measurement N 89° 41' W on W. half mile.
Difference bet. measurements of 80.26 chs. by two sets of chainmen is. 6 lks., position of middle point.
By 1st set. 80.29 chs.
By 2nd set 80.23 chs.; the mean of which is
80.26 Intersect the Stand. Cor. of Mps. 25 N. Rs. 14 and 15 E., re-estab. by me in Oct. 1908 and described in Exterior Book "J".
Land rolling sand hills.
Soil sandy 3rd rate.
No timber

Feb. 22nd 1910

Retracement of the 6th Standard Parallel North through R 16 E.

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Survey commenced March 7th 1910 and executed with a W and L.E. Gurley, engineers transit No. 76. with Solar attachment, the horizontal limb is provided with one double vernier, reading to single minutes of arc., the verniers of the latitude and declination arcs reading to 0' 30" of arc. I examine the adjustments of the transit and find them perfect and know from recent tests of the solar apparatus, by comparing its indications resulting from solar observations made during a.m. and p.m. hours with a meridian established by observations on Polaris that the instrument is in satisfactory adjustment.

I begin at the Stand cor. of Nps. 25 N. Rs 15 and 16 E. (described in Exterior Book "I") which were established Oct. 28th 1908. Latitude 35° 30' 35" N., Longitude 110° 41' 22" W.

At 8h 00m a.m. l.m.t. I set off 35° 30½' N. on the lat. arc 5° 25½' S. on the decl. arc and determine a meridian with the solar. Thence I run.

East on a random line on S. bdry. of sec. 31.

Difference bet. measurements of 40.04 chs. by two sets of chainmen is 2 lks., position of middle point

By 1st Set. 40.03 chs.

By 2nd Set. 40.05 chs., the mean of which is

40.04 Wall 22 lks. N. of the old stand. ¼ sec. cor., which is a Sand stone 12 x 8 x 3 ins., loosely set., marks nearly obliterated. No trace of pits and mound.

Course and dist. to a line back to the Stand Np. cor. N 89° 41' W 40.04 chs.

From above described ¼ sec. Corner I run East, on random line on S. bdy. of sec. 31 on E. half mile, measuring from std. ¼ sec. cor.

Difference bet. measurements of 40.00 chs by two sets of chainmen is 2 lks., position of middle point.

By 1st Set. 40.01 chs.

By 2nd Set. 39.99 Chs. the mean of which is

40.00 Make a diligent search for the old stand. cor. of sec 31 and 32. but am unable to find any trace of the same., therefore I continue my random line and measurement, East., making diligent search at each 40.00 and 80.00 chs for the old stand ¼ sec. and sec. cors.

Difference bet. measurements of 199.96 Chs. by two sets of chainmen is. 8 lks. position of middle point.

Chains

By 1st Set 199.92 chs.
By 2nd Set. 200.00 chs.: the mean of which is
199.96 Fall 105 lks. N. of the old Stand Cor. of secs. 33 and 34, which is a cottonwood post 4 ins. sq. 24 ins above ground, firmly set., marked as described in the original field notes. No trace of pits and mound.: Course and dist. of line back to the old Stand. 1/4 sec. cor. of Sec. 31, N. 89° 42' W., 199.96 chs.

East on a random line on S. bdry. sec. 34.
Difference bet. measurements of 40.00 chs. by two sets of chainmen is 02 lks.; position of middle point
By 1st Set 40.01 chs.
By 2nd Set 39.99 chs.: the mean of which is
40.00 Make a diligent search for the old Standard 1/4 sec. Cor., both are unable to find any trace of it; therefore I continue my alinement and measurement
East on random line on S. bdry. sec. 34. E. half mile.
Difference between measurements of 80.02 chs. by two sets of Chainmen is 02 lks.; position of middle point.
By 1st Set. 80.01 chs.
By 2nd Set. 80.03 chs.; the mean of which is
80.02 Fall 42 lks. N. of the Standard Cor. of secs. 34 and 35 which is a mdlapais stone 10 x 6 x 4 ins. above loosely set, marked with 2 notches on E and 4 notches on W. edges.; No trace of pits and mound. Course and dist. of line back to the old Std. cor. of secs. 33 and 34; N. 89° 42' W., 80.02 chs.

East on a random line on S. bdry. sec 35.
Difference between measurements of 40.16 chs. by two sets of Chainmen is 04 lks.; position of middle point.
By 1st Set. 40.15 chs.
By 2nd Set 40.17 chs.; the mean of which is
40.16 Fall 15 lks. N. of the old Standard 1/4 sec. Cor., which is a soft sand stone 12 x 8 x 2 ins. above ground marks nearly obliterated; with no trace of pits and mound.; Course and dist. of line back to the Std. cor. of secs. 34 and 35, N. 89° 47' W., 40.16 chs.

Retracement of the 6th Standard Parallel North, through R 16 E.

14 Chains

50.

BOOK 2512

From old Stand 1/4 Sec. Cor. just found, I run East on a random line on S. bdry sec. 35, E 1/2 mile. Difference between measurements of 40.14 chs. by two sets of chainmen is 02 lks.; position of middle point By 1st Set. 40.13 chs. By 2nd Set 40.15 chs.; the mean of which is

40.14 Fall 16 lks. N. of the old Standard Cor. of secs. 35 and 36., which is a malapais stone 8 X 7 X 6 ins above ground, marked and witnessed as described by the Surveyor General. Course and dist. of line back to the Old Stand 1/4 Sec. Cor. is N 89° 46' W. 40.14 chs.

East on a random line on S bdy. Sec. 36.

39.76 Fall 4 lks. N. of the old Closing Cor. of the 4th Guide Meridian East, through Tps 24 N. bet. Rs. 16 and 17 E. which is a cottonwood fork 3 ins 39.12 ins above ground, marks nearly obliterated, pits partly filled, with mound of earth S. of Cor.

Difference between measurements of 40.02 chs. by two sets of Chainmen is 01 lk.; position of middle point By 1st Set 40.02 1/2 chs. By 2nd Set 40.01 1/2 chs.; the mean of which is

40.02 Fall .04 1/2 lks. N. of the old Stand 1/4 Sec. Cor, which is a lime stone 12 X 4 X 4 ins above ground, marked S.C. 1/4 on N. face. Pits partly filled and mound of earth N. of cor., Course and dist. of line back to Stand Cor. of secs 35 and 36 is N 89° 56' W. 40.02 chs. I begin at Stand. 1/4 Sec. Cor above described and run East on random line on S. bdry of Sec 36 on East half mile.

Difference bet. measurements of 40.04 chs. by two sets of Chainmen is 02 lks.; position of middle point. By 1st Set. 40.05 chs. By 2nd Set 40.03 chs.; the mean of which is

40.04 Fall 5 lks. N. of the Standard Cor. of Tps. 25 N., Rs. 16 and 17 E. described in Standard Book "A" which I re-established Sept. 5th 1908 Course and dist. of line back to the Stand 1/4 Sec. Cor. N 89° 56' W. 40.04 chs.

NOTE At the Standard 1/4 Sec Cor. on S. bdry. Sec. 36, above described. I set off 5° 22' S. on the Decl. arc and at noon observed the sun on the meridian, the resulting latitude being 35° 30 1/2' N.

51

From my retracements of the 6th Standard Parallel North through R16 E, I find that many of the std ¼ sec. and sec. cors. and all of the closing cors. of subdivisions in T. 24 N. R. 16 E. have become lost or obliterated, and that the greater portion of the std ¼ sec. and sec. cors. that remain are in a state of dilapidation, therefore I resurvey this line, re establishing the defective std ¼ sec. and sec. cors. in their original position, and establishing the necessary new std. ¼ sec. and sec. cors., where such cors. were found missing, at proportional distances on a true line between such old std. ¼ sec. and sec. cors. as I find, as follows:

March 7, 1910: At 1h 00m p.m. l.m.t. I set off 35° 30½' N. on the lat. arc 5° 21' S. on the decl. arc, and determine a meridian with the solar at the Stand. Cor. of Tps. 25 N., R's 16 and 17 E. re-estab. by me in Sept. 1908 and described in Standard Book "A" thence I run

N 89° 56' W. on a true line on S. bdry. of sec. 36.

Ascend gradually over S.E. slope, through scattering sage brush undergrowth and bunch grass.

Difference between measurements of 40.04 chs. by two sets of chainmen is 01 lk.; position of middle point.

By 1st set. 40.03½ chs.

By 2nd set 40.04½ chs.: the mean of which is

40.04 Intersect the old Standard ¼ sec. cor., hereinbefore described. I re establish this cor. as follows. I destroy the old cor. and set an iron post 3 ft. long, 1 in. in diam. in the same place. 26 ins. in the ground for Stand. ¼ sec. cor. marked on brass cap ¼ S 36 in N. half. Re-dig the old pits 18×18×12 ins. E and W. of post 3 ft. dist. and raise a mound of earth 3½ ft. base, 1½ ft. high N. of cor.

40.30 Intersect the Stand. Closing Cor. of Tps. 24 N. R's 16 and 17 E., hereinbefore described., I re establish this cor. as follows. I destroy the old post and at the same place set an iron post 3 ft. long 3 ins. in diam. 24 ins in the ground for Stand. Closing Cor. of Tps. 24 N., R's 16 and 17 E. marked on brass cap. T 25 N., R 16 E., S 36., R 17 E, S 31. in N. half. C.C. T 24 N. in S. half.; R 17 E 36 in S.E. and R 16 E S1 in S.W. quadrant.

Re dig the pits 30×24×12 ins. crosswise on each line E and W, 4 ft. and S. of post 8 ft. dist., and raise a mound of earth

52. Resurvey of the 6th Standard Parallel through Range 16 East.
16

BOOK 2512

5 ft base; 2½ ft high S. of Cor.
Difference bet. measurements of 80.06 chs. by two sets of Chainmen is 04 lks.; position of middle point
By 1st Set. 80.08 chs.
By 2nd Set 80.04 chs.; the mean of which is
80.06 Intersect the old Stand. Cor. of Secs. 35 and 36 hereinbefore described.
Dre establish this cor. as follows: I destroy the old stone, and in the same place set an iron post 3 ft long 3 ins. in diam. 24 ins. in the ground for Stand Cor. of Secs. 35 and 36. marked on brass Cap T25 N. 335 in N.W. and R16E. S 36 in N.E. quadrant.
Dre dig the old pits 24x18x12 ins., crosswise on each line E and W. 3 ft. and N. of post 7 ft. dist. and raise a mound of earth 4 ft base 2 ft. high N. of Cor.
Land rolling
Soil Sandy 3rd rate.
No lines run

N 89° 46' W. on true line on S. bdy. of sec. 35
Ascend S.E. slope over rolling Sandy land, through scattering Sage and greasewood brush undergrowth and bunch grass
Difference bet. measurements of 40.14 chs. by two sets of Chainmen is 02 lks.; position of middle point.
By 1st Set 40.15 chs.
By 2nd Set 40.13 chs.; the mean of which is
40.14 Intersect the old Stand. ¼ sec. Cor. hereinbefore described.
I destroy all evidence of this cor. and re establish it in the same place as follows;
Set an iron post 3 ft. long, 1 in. in diam. 26 ins. in the ground for Stand ¼ sec. Cor. marked on brass cap. ¼ S. 35 in N. half.
Dig pits 18x18x12 ins. E and W. of post 3 ft. dist.

and raise a mound of earth 3½ ft. base, 1½ ft. high. N. of cor. Thence I run on a true line continuing measurement, N. 89° 47' W.

Difference bet. measurements of 80.30 chs. by two sets of Chainmen is. 4 lks. position of middle point,

By 1st Set. 80,32 Chs.

By 2nd Set 80,28 Chs. the mean of which is.

80.30 Intersect the old Stand cor. of secs. 34 and 35 hereinbefore described.

I destroy all evidence of this cor. and reestablish it in the same place as follows.

Set an iron post 3 ft. long 3 ins. in diam. 24 ins. in the ground for Stand Cor. of secs. 34 and 35 marked on brass Cap. T 25 N. S 34 in N.W. and R 16 E. S. 35 in N.E. quadrant,

Dig pits 24 x 18 x 12 ins. crosswise on each line E and W. 3 ft. and N. of post. 7. ft. distt. and raise a mound of earth 4 ft. base. 2 ft. high. N. of Cor.

Land rolling.

Soil sandy 3rd rate.

No timber

N 89° 42' W. on a true line on S. bdry of sec. 34.

Ascend gradually over S.E. slope, through scattering sage and greasewood brush undergrowth and bunch grass.

Difference bet. measurements of 40,01 Chs. by two sets of Chainmen is. 2 lks. position of middle point.

By 1st Set. 40,00 Chs.

By 2nd Set 40,02 Chs. the mean of which is.

40.01 Set an iron post 3 ft. long 1 in. in diam. 26 ins. in the ground for re-established Stand. ¼ sec. Cor. marked on brass Cap ¼ S. 34, on N. half.

Dig pits 18 x 18 x 12 ins. E and W. of post 3 ft. distt. and raise a mound of earth 3½ ft. base, 1½ ft. high. N. of cor.

After diligent search no trace of the old Std. ¼ sec. Cor can be found.

54. Resurvey of the 6th Standard Parallel North through R 16 E.

18 Chains

BOOK 2512

41.00 Pch. of Sand ridge bears N.E. and S.W. desc. gradually over N.W. slope.

53.36 Dry Sand wash. 10 lks. wide 3 ft. deep Course S.W., Continue gradual descent.

Difference bet. measurements of 80.02 Chs. by two sets of Chainmen is. 4 lks., position of middle point.

By 1st Set. 80.04 Chs.

By 2nd Set. 80.00 Chs. the mean of which is

80.02 Intersect the Old Stand Cor. of Secs 33 and 34 hereinbefore described.

Destroy all evidence of this Cor. and reestablish it in the same place as follows;

Set an iron post 3 ft. long, 3 ins. in diam. 24 ins. in the ground for Stand Cor. of Secs. 33 and 34 marked on brass Cap. T 25 N. S 33 in N.W. and R 16 E S 34 in N.E. quadrants.

Dig pits 24 x 18 x 12 ins. Crosswise on each line E. and W. 3 ft. and N. of post 7 ft. dist. and raise a mound of earth 4 ft. base, 2 ft. high N. of Cor.

Land rolling.

Soil sandy 3rd rate.

No timber

N 89° 12' W. on a true line on S. bdry. Sec. 33, Descend N.W. slope over rolling Sand hills through scattering sage and greasewood brush undergrowth and bunch grass.

25.30 Dry sand wash. 75 lks. wide 12 ft. deep Course S.W. desc. gradually.

Difference bet. measurements of 39.99 Chs. by two sets of Chainmen is. 2 lks., position of middle point.

By 1st Set. 39.98 Chs.,

By 2nd Set. 40.00 Chs. the mean of which is.

39.99 Set an iron post 3 ft. long 1 in. in diam. 26 ins. in the ground for re-established Stand. 1/4 Sec. Cor. marked on brass Cap. 1/4 S 33. on N. half.

Dig pits 18 x 18 x 12 ins. E and W. of post. 3 ft. dist. and raise a mound of earth 3 1/2 ft. base 1 1/2 ft.

high. No. of. cor.
After diligent search. no trace of the old
Std. 1/4 sec. cor. is found.
45.00 N. of. sand ridge 10 lks. above Stand 1/4 sec cor
bears. N.E. and S.W. desc. gently.
Difference bet. measurements of 79.98 chs. by two
sets of chainmen is. 2 lks. position of middle
point.
By 1st Set. 79.99 Chs.
By 2nd Set. 79.97 Chs. the mean of which is
79.98 Set an iron post 3 ft. long 3 ins. in diam. 24
ins. in the ground for re-established Stand cor. of sec. 32.
and 33. marked on brass cap. T 25 N. S 32 in
N.W. T 16 E S 33 in N.E. quadrant,
Dig pits 24 x 18 x 12 ins. Crosswise on each line
E and W. 3 ft. and N. of. post. 7 ft. dist. and
raise a mound of earth 4 ft. base, 2 ft. high.
N. of cor.
After diligent search. no trace of the old Std. sec. cor
is found.
Land rolling sand hills.
Soil sandy 3rd rate.
No timber

N 89° 42' W. on a true line on S. bdry. sec. 32.
Descend N.W. slope over rolling sand hills.
through scattering sage and greasewood brush.
undergrowth and bunch grass.
12.00 Post of descent in depression bears N.E. and S.W.
drains to the S.W. asc. gradually S.E. slope
over rolling sand.
Difference bet. measurements of 39.99 Chs. by
two sets of Chainmen is. 2 lks. position of
middle point.
By 1st Set. 39.98 Chs.
By 2nd Set. 40.00 Chs. the mean of which is
39.99 Set an iron post 3 ft. long 1 in. in diam. 26 ins.
in the ground for re-established Stand 1/4 sec. cor. marked on
brass cap. 1/4 S. 32. on N. side of.
Dig pits 18 x 18 x 12 ins. E and W. of. post. 3 ft. dist.
and raise a mound of. earth 3 1/2 ft. base, 1 1/2 ft.

BOOK 2512

high W. of. cor.
After diligent search no trace can be found of the std. 1/4 sec. cor.
Difference bet. measurements of 79.98 Chs. by two sets of Chainmen, is 4 lks. position of middle point.
By 1st Set. 79.96 Chs.
By 2nd Set 80.00 Chs. the mean of which is.
79.98 Set an iron post 3 ft. long 3 ins. in diam 24 ins. in the ground for re-established Stand Cor of secs. 31 and 32. marked on brass Cap. T25N. S31 in N.W and R16E S32 in N.E. quadrants.
Dig pits 24x18x12 ins. Crosswise on each line E and W. 3 ft. and N. of post. 7 ft. dist, and raise a mound of earth 4 ft. base, 2 ft. high. W. of cor.
After again making diligent search no trace of the old std. sec. Cor can be found.
Land rolling and hilly.
Soil sandy 3rd rate.
No timber

N 89° 42' W on a true line on S. bdry sec. 31
Ascend S.E. slope over rolling, sand hills, through scattering sage and greasewood brush undergrowth and bunch grass.
5.70 Pass of sand ridge 20 ft. above the Cor. bears N. and S. desc. gradually over W. slope.
Difference bet. measurements of 39.99 Chs. by two sets of Chainmen is. 2 lks. position of middle point.
By 1st Set. 39.98 Chs.
By 2nd Set. 40.00 chs. the mean of which is.
39.99 Intersect the old. Stand 1/4 sec. Cor, hereinbefore described.,
Destroy all evidence of this cor and re-establish it in the same place as follows;
Set an iron post 3 ft. long, 1 in. in diam. 26 ins. in the ground for. Stand 1/4 sec. cor. marked on brass Cap. 1/4 S. 31 on N. half.
Dig pits 18x18x12 ins. E and W. of post. 3 ft. dist, and raise a mound of earth 3 1/2 ft. base

1½ ft. high N. of cor.,
This Cor is situated at foot of descent in a depression, bears N.E. and S.W. asc. gently S.E. slope. Thence I run on true line continuing measurement, N. 89° 41' W.
Difference bet. measurements of 80.03 Chs. by two sets of Chainmen is 4 lks., position of middle point.
By 1st Set. 80.05 Chs.
By 2nd Set. 80.01 Chs. the mean of which is
80.03 Intersect the Standard Cor of Ps. 25 N. Rs 15 and 16 E, re-estab. by me in Oct. 1908 and described in Exterior Book "I"
Land rolling and hilly.
Soil Sandy 3rd rate,
No timber

March 7th 1910

Retracement of the 6th Standard Parallel North through Rs 17 and 18 E.

22 Chains

BOOK 2512

Survey Commenced March 19th 1910 and executed with a Young & Sons light mountain transit No 10. with a Smith Solar attachment, the horizontal limb is provided with two double verniers placed opposite to each other reading to single minutes of arc, which is also the least count of the verniers of the latitude and declination arcs.

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

I begin at the Stand cor of Tps. 25 N. Rs 16 and 17 E described in Standard Book "A" which I re established Sept 5th 1908. Latitude 35° 30' 35" N. Longitude 110° 35' W.

At 7h 00m a.m. L.M.T. I set off 35° 30½' N. on the lat. arc 0° 42½' S. on the decl. arc and determine a meridian with the Solar. Thence I run.

East on a random line on S. bdy. sec. 31.

Difference bet. measurement of 40.80 chs. by two sets of chainmen is. 2 lks. position of middle point,

By 1st Set. 40.01 chs.

By 2nd Set. 39.99 chs. the mean of which is.

40.00 Make a diligent search for the old Stand ¼ sec cor. which I am unable to find. therefore I continue my random line East making diligent search at each 40.00 and 80.00 chs for the old Stand ¼ sec and sec. cors.

NOTE At 480.00 chs. the point for the Stand cor. of Tps. 25 N. Rs 17 and 18 E. I set off 0° 39' S. on the decl arc and at noon observed the sun on the meridian, and obtain on the lat. arc a reading of 35° 30½' N.,

Difference bet the measurements of 799.20 chs by two sets of chainmen is. 20 lks, position of middle point.

By 1st Set. 799.30 chs.

By 2nd Set 799.10 chs. the mean of which is.

799.20 Mall 164 lks. N. of the Stand cor. of secs. 34 and 35.

N/c 25 N. R 18 E. which is a Cedar post 3 ins sq. 30 ins above ground, greatly decayed, marked with 2 notches on E and 4 notches on W. edges. No trace of pits or mound.
Course and dist. of line back to the cor. of Tps. 25 N. Rs 16 and 17 E. N 89° 53' W., 799.20 chs.

March 19th 1910.

March 21st 1910 at 7h 10m a.m. l. mt. Set off 35' 30½" N. on the lat. arc. 0° 05' N. on the decl. arc and determine a meridian at the old Stand. cor. of secs 34 and 35, T 25 N., R 18 E, above described, thence I. run
East on a random line on S. bdry sec 35.
Difference bet. measurements of 39.96 chs. by two sets of Chainmen is 4 lks., position of middle point
By 1st Set. 39.98 chs.
By 2nd Set. 39.94 chs. the mean of which is.

39.96 Fall 23 lks. N. of the old Stand ¼ sec. cor. which is a malapai stone 28 x 20 x 10 ins, firmly set in a mound of stone, marked with S.C. ¼ on N. face No cor. accessories.
Course and dist. of line back to the Std. cor. of secs 34 and 35 is N. 89° 40' W. 39.96 chs.
From the std ¼ sec. cor. above described, I run
East on a random line E. half mile
Difference bet. measurements of 39.96 chs. by two sets of Chainmen is. 4 lks. position of middle point.
By 1st Set. 39.98 chs.
By 2nd Set 39.94 chs. the mean of which is.

39.96 Fall 12 lks. N. of the old Stand. Cor of secs. 35 and 36. which is a Basalh stone 24 x 16 x 12 ins loosely set in a mound of stone marked with 1 notch on E and 5 notches on W. edges. No cor accessories
Course and dist. of line back to the old std ¼ sec. cor is N. 89° 50 W. 39.96 chs.

East on a random line on S. bdy. of Sec. 36.

36.02 Fall 21 lks. N. of the old Standard Closing Corner of Tps. 24 N., Rs. 18 and 19 E., which is a cedar post 4 ins. sq. 2½ ft. above ground, firmly set and marked and witnessed as described by the Surveyor General.

Difference bet. measurements of 39.96 chs. by two sets of Chainmen is 2 lks., position of middle point.
By 1st Set. 39.94 chs.
By 2nd Set. 39.96 Chs. the mean of which is

Retracement of the 6th Standard Parallel North through Rs 17 and 18 E.

24 Chains

BOOK 2512

39.95 Wall 23 lks. N of the old Stand 1/4 sec. cor. which is a cedar post greatly decayed lying on the ground midway bet. two pits, marked S.C. 1/4 on one of the faces.

Course and dist of line back to the old Std. cor. of secs. 35 and 36 is. N 89° 40' W 39.95 chs.

From south midway bet. pits, I run East on a random line on S. bdy of Sec. 36 half mile.

Differences bet. measurements of 39.94 chs. by two sets of chainmen is 2 lks. position of middle point By 1st Set. 39.95 chs.

By 2nd Set 39.93 chs. the mean of which is.

39.94 Wall 23 lks. N. of the Old. Stand cor. of N/ps. 25 N. Rs 18 and 19 E. which is a cedar post 2 ins sq. 2 1/2 ft above ground, firmly set, marks nearly obliterated, No trace of pits or mound.

Course and dist of line back to the Std 1/4 sec. cor. N 89° 40' W. 39.94 chs.

March 21st 1910

Resurvey of the 6th Standard Parallel North, through R. 18 E.

25

BOOK 2512

Mar. 26 1910

From my retracement of the 6th Standard Parallel N., through R's 17 and 18 E made preliminary to beginning the Subdivision of T. 25 N., Rs 17 and 18 E., I find that all of the old std corners and closing corners through R 17 E are completely obliterated and that only a small per cent. of those through R 18 E can be found; Those that were found are either in a state of dilapidation, or else, insufficiently witnessed, therefore I resurvey the 6th Standard Parallel North through these ranges; reconstructing the old original, std. 1/4 sec. and sec. corners and setting the necessary new corners, at proportional distances on a true line between the old corners which were found on the ground, as follows.

The old Standard Cor. of Ts 25 N., Rs 18 and 19 E., being a cedar post, greatly decayed, with marks nearly obliterated, and no cor. accessories., I re establish this cor. as follows. I destroy the old cor. and re establish it in the same place.

Set an iron post 3 ft. long 3 ins in diam. 24 ins in the ground for Stand Cor. of Ts 25 N., Rs 18 and 19 E., marked on brass Cap. T 25 N. in N. half., R 18 E, S 36 in N.W., R 19 E. S 31 in N.E. quadrants.

Raise a mound of stone, 2 ft. base, 1½ ft. high N. of Cor., Pits impracticable

Thence Dr. N 89° 40' W. on true line on S. bdy. Sec. 36.

Over rolling sandy land slopes to S.W., through scattering sage and greasewood, brush undergrowth and bunch grass

Difference between measurement of 39.94 Chs. by two sets of Chainmen is 02 lks.; position of middle point

By 1st set 39.95 Chs.

By 2nd set 39.93 Chs: the mean of which is

39.94 Intersect the old stand ¼ Sec. Cor. hereinbefore described

I destroy all evidences of the old cor. and re establish it in the same place as follows;

Set an iron post 3 ft. long 1 in. in diam. 26 ins

BOOK 25

in the ground for Stand. ¼ sec. cor., marked on brass cap ¼ S 36 on N. half.; Dig pits 18x18x12 ins. & and W. of post. 3 ft. dist. and raise a mound of earth 3½ ft. base, 1½ ft. high. N. ¼ cor.

43.87 Intersect the old Standard closing cor. of Tps. 24 N., Rs 18 and 19 E., which is a cedar post. 4 ins sq. 2½ ft. above ground, firmly set, marked and witnessed as described by the Surveyor General.

71.89 Dry sand wash 30 lks. wide 1 ft. deep Course S 70° W.
Enter scattering cedar timber bears N.E. and S.W.

76.64 Dry sand wash 30 lks wide Course N 80° W.
Difference between measurements of 79.89 Chs. by two sets of Chainmen is 04 lks.; position of middle point
By 1st Set 79.91 Chs.
By 2nd Set 79.87 Chs.: the mean of which is

79.89 Intersect the Standard Cor. of secs. 35 and 36. hereinbefore described.: Re-establish this cor. as follows;
Re set the same stone 18 ins. in the ground for Stand. Cor. of secs. 35 and 36., and re-mark it S.C. on N. face, with 1 groove on E and 5 grooves on W. faces. from which.
A cedar 10 ins. in diam. bears N 18¾° E 105 lks. dist. marked T 25 N. R 18 E. S 36 B.T.
A cedar 8 ins. in diam. bears N. 73° W. 160 lks. dist. marked T 25 N. R 18 E, S 35 B.T.
Land rolling
Soil Sandy 3rd rate
Timber Cedar

N 89° 50' W. on a true line on S bdry. sec 35
Over rolling sandy land, through scattering sage and greasewood brush undergrowth and cedar timber

0.75 Dry sand wash 100 lks. wide, 3 ft. deep Course S 70° W

10.00 Land timber bears N.E. and S.W.
Difference bt. measurements of 39.96 Chs. by two sets of Chainmen is 02. lks.; position of middle point

Chs

By 1st Set. 39.97 Chs.
By 2nd Set. 39.96 Chs.; the mean of which is
39.96 Intersect the old Stand'd 4 sec. Cor,
hereinbefore described.
Destroy the old Corner and re establish it in
the same place as follows:, Set the same stone
32 ins. in the ground for Stand'd 4 sec. cor and
re-mark it S.C. 1/4 on N. face.
Raise a mound of stone 2 ft. base 1/2 ft. high N. of
Cor.; Pits impracticable
Thence Run on true line on S. bdy. of sec. 35 on W. half mile
N 89° 40' W, continuing measurement
41.00 Dry sand wash 200 lks. wide Course S 80° W.
53.30 Dry sand wash 20 lks. wide Course N 80° W.
Difference bet. measurements of 79.92 Chs. by two
sets of chainmen is 04 lks.; position of middle
point
By 1st Set 79.94 Chs.
By 2nd Set 79.90 Chs.; the mean of which is
79.92 Intersect the old Standard Cor. of secs. 34 and 35:
hereinbefore described
Destroy all evidence of the old cor. and re establish
it in the same place as follows;
Set an iron post 3 ft. long 3 ins. in diam. 24 ins.
in the ground for Stand. Cor. of secs 34 and 35:
marked on brass Cap. T 25 N. S 34 in N.W. and
R 18 E. S 35 in N.E. Quadrants
Dig pits 24 x 18 x 12 ins. Crosswise on each line
E and W. 3 ft. and N. of post 7 ft. dist. and raise
a mound of earth 4 ft. base, 2 ft. high N. of Cor.
Land rolling
Soil Sandy 3rd rate.
Timber None

N 89° 53' W. on a true line on S. bdy of sec. 34
Over rolling Sandy Land, through scattering sage
and greasewood brush undergrowth and
bunch grass.
Difference between measurements of 39.96
Chs. by two sets of chainmen is 2 lks.: position
of middle point

Resurvey of the 6th Standard Parallel North, through R 18 E.

By 1st Set. 39.97 Chs.
By 2nd Set 39.95 Chs.; the mean of which is
39.96 Set an iron post 3 ft. long, 1 in in diam. 26 ins. in the ground, for reestablished Stand 1/4 Sec. Cor., marked on brass Cap. 1/4 S. 34 in N. half.
Dig pits 18 x 18 x 12 ins. E and W. of post. 3 ft. dist. and raise a mound of earth 3 1/2 ft. base. 1 1/2 ft. high. N. 1/4 Cor.
56.50 Dry sand wash 100 lks. wide. 6 ft. deep Course S 80° W.
64.65 The same wash Course N.W.
Difference between measurements of 79.92 Chs., by two sets of Chainmen is 02 lks.; position of middle point.
By 1st Set. 79.93 Chs.
By 2nd Set 79.91 Chs.; the mean of which is
79.92 Set an iron post 3 ft. long, 3 ins. in diam. 24 ins in the ground for reestablished Stand Cor. of Secs. 33 and 34 marked on brass Cap T 25 N. S 33 in N.W. and R 18 E. S 34 in N.E. Quadrants
Dig pits 24 x 18 x 12 ins. Crosswise on line E and W. 3 ft. and N. of post. 7 ft. dist. and raise a mound of earth 4 ft base. 2 ft high N. 1/4 Cor.
Land Rolling.
Soil Sandy 3rd rate.
No timber

N 89° 53' W. on a true line on S. bdry. of Sec. 33. Over rolling Sandy land, through scattering sage and greasewood brush undergrowth and bunch grass.
4.75 Dry Sand wash 30 lks. wide Course S 75° W
30.25 Sand ridge 15 ft. above wash, bears N.E. and S.W. dist W. slope
Difference between measurements of 39.96 Chs. by two sets of Chainmen is 04 lks.; position of middle point
By 1st Set. 39.94 Chs.
By 2nd Set. 39.98 Chs; the mean of which is
39.96 Set an iron post 3 ft. long, 1 in in diam 26 ins.

in the ground for re-established Stand 1/4 sec. cor. marked on brass cap 1/4 S 33 on N. half.
Raise a mound of stone 2 ft. base, 1½ ft. high. N. of cor. Pits impracticable
47.30 Dry sand wash 30 lks wide Course N. 70° W. are over N.E. slopes
64.82 Road from Winslow Arizona to Polacca Ariz bears N 20° E and S 20° W.
76.52 Road to Comar Spring bears N 10° E and S 10° W
Difference bet. measurements of 79.92 chs. by two sets of chainmen is 4 lks. position of middle point.
By 1st Set. 79.90 chs.
By 2nd Set. 79.94 chs. the mean of which is
79.92 Set an iron post 3 ft. long, 3 ins. in diam. 24 ins. in the ground for re-established Stand cor. of sec. 32 and 33, marked on brass Cap. T 25 N S 32. in N.W and T 18 E S 33 in N.E. quadrant.
Raise a mound of stone 2 ft. base 1½ ft. high. N of cor. Pits impracticable
From this Cor. Comar Spring, bears N 34½° E 9 chs dist.
A Stone house, bears N. 25¼° E 13.50 chs. dist.
A deserted Indian Hogan bears N 56½° W 7 chs. dist.
Land rolling.
Soil Sandy, 3rd and 4th rate.
No timber

N 89° 53' W. on a true line on S. bdry. sec. 32.
Over rolling sandy land.
Difference bet. measurements of 39.96 chs. by two Sets of Chainmen is, 2 lks. position of middle point.
By 1st Set. 39.97 chs.,
By 2nd Set. 39.95 chs.', the mean of which is.
39.96 Set an iron post 3 ft. long, 1 in. in diam. 26 ins. in the ground for re-established Stand 1/4 sec. cor. marked on brass Cap 1/4 S 32 on N. half.
Dig pits 18×18×12 ins. E and W. of post 3 ft. dist. and raise a mound of earth 3½ ft. base 1½ ft. high. N. of cor.

Resurvey of the 6th Standard Parallel North through R18E.

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NOTE At this Std. 1/4 sec. Cor. Seh. Aff. 0° 09' W on the decl. and at noon observed the sun on the meridian and obtain on the Sah. arc a reading of 35° 30½' N.

45.50 Dry sand wash, course N.W.

66.00 Ep point, from which a Navajo Hogan bears N. 9.00 Chs. dist.

Difference bet. measurements of 79.92 Chs. by two sets of Chainmen is. 2 lks. position of middle point.

By 1st Set. 79.91 Chs.

By 2nd Set. 79.93 Chs. the mean of which is.

79.92 Set an iron post 3 ft. long, 3 ins. in diam. 24 ins. in the ground for re-established Stand Cor. of secs. 31 and 32. marked on brass Cap T25N S31 in N.W. and R18E S32 in N.E. quadrants.

Dig pits 24 x 18 x 12 ins. crosswise on each line E and W. 3 ft. and N of post 7 ft. dist. and raise a mound of earth 4 ft. base, 2 ft. high.

N. of cor.

Land rolling.

Soil sandy 3rd and 4th rate.

No timber

N89°53' W on a true line on S. bdry sec. 31 Over rolling sandy land through scattering bunch grass.

1.45 Top of sand ridge bears N10°E and S10°W. desc. N.W. slope.

9.45 Bottom of descent. thence over rolling land bears N and S.

Difference bet. measurements of 39.96 Chs. by, two sets of Chainmen is. 4 lks. position of middle point.

By 1st Set. 39.95 Chs.

By 2nd Set. 39.97 Chs. the mean of which is.

39.96 Set an iron post 3 ft. long. 1 in. in diam. 26 ins. in the ground for re-established Stand 1/4 sec. cor. marked on brass Cap 1/4 S 31 on N. half.

Dig pits 18 x 18 x 12 ins. E and W. of post. 3 ft. dist and raise a mound of earth 3½ ft. base 1½ ft. high. N. of cor.

59.45 Land rolling Land bears N10°E and S10°W. Enter

hilly land. Ase. E slope Sand ridge

68.50 Nor of ridge bears N20°E and S20°W dist.
Difference bet measurements of 79.92 chs by two sets of chainmen is .44 lks position of middle point.
By 1st Set 79.90 chs.
By 2nd Set 79.94 chs. the mean of which is

79.92 Set an iron post 3 ft long 3 ins in diam 24 ins in the ground for re-established Stand Cor of Nps 25 N. Rs 17 and 18 E, marked on brass Cap. T25N in N half. TP17E S36 in NW and R18E S31 in NE quadrant
Dig pits 30 x 24 x 12 ins. Crosswise on each. like E and W 4 ft and N of post 8 ft dist and raise a mound of earth 5 ft base 2½ ft high N of Cor.
Land rolling and hilly.
Soil Sandy and adobe 3rd and 4th rate.
Not timbered

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March 21st 1910 Ah. 2h 00m p.m. limit Arch off. 35° 30½' N
on the Lah. arc. 0° 10' N on the decl arc and
determine a meridian with the Solar ah. the
Standard Cor. of Pts 25 N. Rs 17 and 18 E, hereinbefore described.
which I reestablished this afternoon.
Thence I run
N 89° 53' W on a true line on S. bdry sec 36.
Descend gradually. N.W. Slope over rolling sand
ridges, through scattering sage and greasewood
brush undergrowth and bunch grass.
Difference bet. measurement of 39.96 chs. by two sets
of Chainmen is 2 lks., position of middle point
By 1st Set. 39.95 Chs.
By 2nd Set 39.97 Chs.; the mean of which is
39.96 Set an iron post 3 ft. long, 1 in. in diam, 26 ins.
in the ground for re-established Stand of sec. cor. marked on
brass Cap. 1/4 S 36 on. N. half.
Dig pits 18 x 18 x 12 ins E and W. of post 3 ft. dist.
and raise a mound of earth 3½ ft. base, 1½ ft.
high. N. of cor.
Difference bet. measurements of 79.92 Chs.
by 2 sets of Chainmen is 2 lks. position of
middle point.
By 1st Set 79.91 Chs.
By 2nd Set. 79.93 Chs. the mean of which is
79.92 Set an iron post 3 ft. long 3 ins. in diam. 24
ins. in the ground for re-established Stand Cor. of secs. 35
and 36., marked on brass Cap. + 25 N. S 35 in
N.W. and R 17 E. S, 36 in N.E. quadrant.
Dig pits 24 x 18 x 12 ins crosswise on each line
E and W. 3 ft. and N. of post 7 ft. dist. and raise
a mound of earth 4 ft. base, 2 ft. high. N. of cor.
Land hilly.
Soil sandy 3rd rate.
No timber

N 89° 53' W on a true line on S. bdry. sec 35.
Over hilly sandy land through scattering sage
and greasewood brush undergrowth and
bunch grass.
Difference bet. measurements of 39.96 chs. by.

two sets of chainmen is 4 lks., position of middle point

By 1st Set. 39.98 Chs.

By 2nd Set 39.94 Chs., the mean of which is

39.96 Set an iron post 3 ft. long 1 in. in diam. 26 ins. in the ground for ~~a~~ re-established Stand'd 1/4 sec. cor. marked on brass Cap. 1/4 S 35 on N. half.,

Dig pits 18 x 18 x 12 ins. E and W. of post 3 ft. dist., and raise a mound of earth 3 1/2 ft. base 1 1/2 ft. high. N. of cor.

This cor. is at foot of descent in depression bears N. and S. acc E. slope

49.65 Top of ridge bears N. and S., dec.

Difference bet. measurements of 79.92 Chs. by two sets of chainmen is 2 lks. position of middle point.

By 1st Set. 79.91 Chs.

By 2nd Set 79.93 Chs., the mean of which is

79.92 Set an iron post 3 ft. long, 3 ins. in diam. 24 ins. in the ground for ~~a~~ re-established Stand Cor. of secs. 34 and 35 marked on brass Cap T 25 N S 34 in N.W. and R 17 E S 35 in N.E. quadrant.

Dig pits 24 x 18 x 12 ins. Crosswise on Each line E and W. 3 ft. and N. of post 7 ft. dist. and raise a mound of earth 4 ft. base. 2 ft. high N. of Cor.

Sand hilly,

Soil sandy 3rd rate.

No timber

N 89° 53' W. on a true line on S. bdy sec. 34

Over N. slope, through scattering sage and greasewood brush undergrowth and bunch grass.

Difference bet. measurements of 39.96 Chs by two sets of chainmen is 2 lks. position of middle point.

By 1st Set. 39.97 Chs.

By 2nd Set 39.95 Chs., the mean of which is

39.96 Set an iron post 3 ft. long, 1 in. in diam. 26 ins. in the ground for ~~a~~ re-established Stand 1/4 sec. cor. marked

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on brass cap 1/4 S 34 on N half.
Dig pits 18x18x12 ins. E and W. of post. 3 ft. dist. and raise a mound of earth 3½ ft; base 1½ ft. high. N. of cor.

76.25 Top of Sandridge 30 ft. high. bears N 20° E and S 26° W. dese.
Difference bet. measurements of 79.92 chs. by two sets of chainmen is, 4 lks. position of middle point.
By 1st Set 79.94 chs
By 2nd Set 79.90 chs. the mean of which is.

79.92 Set an iron post 3 ft. long 3 ins. in diam, 24 ins. in the ground for re-established Stand cor. of Secs 33 and 34, marked on brass cap T 25 N. S 33 in NW. and R 17 E S. 34 in NE. quadrants,
Dig pits 24x18x12 ins. Crosswise on each line E and W. 3 ft. and N of post 7 ft. dist. and raise a mound of earth 4 ft. base, 2 ft. high N of cor
Land hilly,
Soil sandy 3rd rate.
No timber

N 89° 53' W. on a true line on S bdry. sec. 33.
Over low rolling sand hills. through scattering sage and greasewood brush, undergrowth and bunch grass

7.76 Pass Sandridge 25 ft. high. bears N.E. and S.W dese. N.W. slope
Difference bet. measurements of 39.96 chs. by two sets of chainmen is 4 lks. position of middle point.
By 1st Set 39.98 chs.
By 2nd Set 39.94 chs. the mean of which is

39.96 Set an iron post 3 ft. long 1 in. in diam 26 ins. in the ground for re-established Stand. ¼ sec. cor marked on brass Cap. 1/4 S 33 on N. half.
Dig pits 18x18x12 ins. E and W. of post. 3 ft. dist. and raise a mound of earth 3½ ft. base 1½ ft. high N. of cor
Difference bet. measurements of 79.92 chs. by

two Sets of Chainmen is 4 lks. position of middle point.
By 1st Set. 79.94 Chs.
By 2nd Set 79.90 Chs. the mean of which is
79.92 Set an iron post 3 ft. long 3 ins. in diam 24 ins. in the ground for re-established Stand. Cor. of Secs. 32 and 33, marked on brass Cap - T 25 N. S 32 in N.W., and R 17 E S 33 in N.E. quadrant. Dig pits 24 x 18 x 12 ins, crosswise on each line E and W 3 ft. and N. of post 7 ft. dish. and raise a mound of earth. 4 ft. base, 2 ft. high. N. of cor
Land hilly.
Soil Sandy 3rd rate.
No timber

N 89° 53' W. on a true line on Subdy. Sec. 32.
Over low sand dunes. through scattering sage brush undergrowth
26.84 W. of sand ridge bears N and S. dist.
39.80 Foot of descent in circular depression 20 ft. below top of sand ridge (as)
Difference bet. measurements of 39.96 Chs. by two sets of Chainmen is 2 lks. position of middle point.
By 1st Set. 39.97 Chs.
By 2nd Set 39.95 Chs. the mean of which is
39.96 Set an iron post 3 ft. long, 1 in mi diam, 26 ins. in the ground for re-established 1/4 Sec. cor. marked on brass cap 1/4 S 32 on N half.
Dig pits 18 x 18 x 12 ins. E and W. of post. 3 ft. dish. and raise a mound of earth 3 1/2 ft. base 1 1/2 ft high N. of cor.
43.09 W. of sand ridge 25 ft. above Stand 1/4 Sec. Cor. bears N and S. dist.
72.85 Foot of descent., bare sand hills bears N 50° E and S 50° W., enter level adobe bottom land subject to overflow about 8 ins. deep.
78.84 Old pack trail bears N 50° E and S 50° W.
Difference bet. measurements of 79.92 Chs, by two sets of chainmen is 4 lks. position of.

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middle point.
By 1st Sch. 79.94 Chs.
By 2nd Sch 79.90 Chs., the mean of which is
79.92 Set an iron post 3 ft. long 3 ins. in diam. 24 ins. in the ground for re-established Stand Cor. of Secs 31 and 32. marked on brass Cap. T25N.S31 in N.W. and R17E S32 in N.E. quadrants. Dig pits 24 x 18 x 12 ins. Crosswise on each line E and W. 3 ft. and N. of post. 7 ft. dist. and raise a mound of earth 4 ft. base, 2 ft. high N. of Cor.
Land level and hilly.
Soil Sandy and adobe 2nd and 3rd rate.
No timber.

N 89° 53' W. on a true line on S bdry Sec. 31
Over level adobe bottom land. subject to overflow
to a depth of about 8 ins in time of heavy rains.
31.90 Leave level bottom land. bears N 50° E and S 50° W
enter rolling Sandy land Slopes to S.E. asc.
gradually. over SE slope
Difference bet. measurements of 39.96 Chs. by
two sets of Chainmen is 2 lks position of
middle point.
By 1st Sch. 39.97 Chs.
By 2nd Sch. 39.95 Chs; the mean of which is
39.96 Set an iron post 3 ft. long, 1 in. in diam. 26 ins. in the ground. for re-established Stand. 1/4 Sec. Cor. marked on brass Cap. 1/4 S. 31 on N. half.
Dig pits 18 x 18 x 12 ins. E and W. of post 3 ft. dist. and raise a mound of earth 3 1/2 ft. base. 1 1/2 ft. high. N. of cor.
Difference bet. measurements of 79.92 Chs by two sets of Chainmen is, 2 lks. position of middle point.
By 1st Sch. 79.93 Chs.
By 2nd Sch 79.91 Chs., the mean of which is
79.92 Intersect the Stand Cor of Tps. 25 N. Rs 16 and 17E re-estab. by me in Sept. 1908 and described in Standard Book "A."
Land level and rolling
Soil sandy and adobe 2nd and 3rd rate.

No timber

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March 21st 1910

General Description.

This line through ranges 15. 16. 17 and 18E runs across a rolling sandy prairie country. In R15E. the Polacca Wash which drains a large area of country to the north of the line is crossed and in R17E. the Jetty to. Wash which has a southwesterly course is crossed on the S. bdy of Sec. 36.

The land both to the north and south of the line in Ranges 15. 16. and 17E. is of a hilly character devoid of timber and poorly watered. In R18E. the land to the north is of a broken hilly and mountainous character, while that to the south consists of rolling prairie lands. The townships to the north of the line are valuable for grazing purposes and should be subdivided.

Sidney E Bloud
U.S. Examiner of Surveys

March 21st 1910.