

RESURVEY OF 2 MILES OF East Bdy.
of

T 15 N., R 5 E

BOOK 1430

1430

4-671

FIELD NOTES

GENERAL LAND OFFICE.

Conjunction with Cont. No 101.

No. 1430

Copied by G. T. Feb 20.

Des. sheet copied C. L. M. 1/27/03.
Emp. M. B. C. M.

Completed by G. T. 4/18/1903

Ed + trans to C. L. O. 4/18/03
4/18/03.

Field Notes
of the
Accuracy of two miles
of the East Boundary of
T. 15 N. R. 5 E. through
secs. 25 and 36.

Gila and Salt River Basins
and Meridian in Arizona.

Asurveyed by
J. B. Girard and R. W. Lattimore
U. S. Deputy Surveyors
in conjunction with Cont'
No. 101.

Dated June 30, 1902.

Survey commenced Aug. 22.
" completed " 23.

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Names and Status of
Assistants

C. G. Fritsche	Chairman
T. B. Balle	Chairman
J. S. Gilman	Alman
J. W. Hansen	Flag man

Sunday

BOOK 1430

S. 15. N. R. 5 E.

25 12 30

36 10 31

3

Resurvey of Two Miles of East Bound Chains

Survey commenced Aug. 22, and executed with a W. and L. C. Gurley Open sight Compass, White Burt Solar Attachment. The horizontal limb is provided with two double verniers, placed opposite to each other and reading to single minutes of arc.

The instrument was examined, tested on the true meridian at Phoenix found correct and was approved by the Surveyor General.

Examine the adjustments of the compass and find no errors.

ry of T. 15 N. R. 5 E. Gila and Salt River Canal

Having spent the entire day hunting for old corners as per notes furnished me by the Surveyor General, I am unable after diligent search to find the cor. bet. secs. 19, 24, 25 and 30. I find remains of old corner common to Tps. 14 and 15 N. R. 5 and 6 E. and by retracing the N. Boundary of T. 14 N. R. 5 E. I find the $\frac{1}{4}$ cor. bet. secs. 1 and 36, 40 chs. N. I reestablish the Sp. Cor. as follows: At same pt. let a limestone $24 \times 10 \times 10$ ins., 14 ins. in the ground marked with 6 notches on N. S. E. & N. edges.
From which

6
 Resurvey of Two Miles of East Boundary
 Chains

A cedar 4 ins. in diam.
 bears S. 75° W 200 lbs dist.
 marked S 14 U. A 5 ~~XXX~~ S. 1 B. S.
 No other bearings available.

Dug pits 24 x 24 x 12 ins. on
 each line N. E. W. 4 ft and
 raise a mound of earth
 5 ft. base 2½ ft high S of cor.

In order to test the solar
 apparatus by comparing
 the results of observations
 on the sun made during
 A.M. and P.M. observations,
 with a true meridian
 determined by observat-
 ions on Polaris, I proceed
 as follows

At 4 h. 10 in P.M. local
 mean time I set off

J. 15 N. R. 5 E. Gila and Salt River Bound W.

$34^{\circ} 39' 7''$ ^{as determined by direct observation} on the lat. arc;
 $11^{\circ} 52' 36''$ on the declination arc, and mark the true meridian thus determined with the solar by a cross on a stone set in the ground 5 chs. N. of the corner and instrument

Aug 22 1902

At 9 h. 26 min. 30 sec. P. M. l. mt. I observe Polaris at eastern elongation, in accordance with instructions in the manual and mark the line thus determined by a tack driven in a wooden plug set in the

BOOK 1430
Resurvey of Two Miles of the E.

Ground 5-cls. N. of my
Station

Aug. 22-1902

August 23-1902

At 8 A.M. I lay off the
Azimuth of Polaris $1^{\circ} 29'$
To the N. and mark the
true meridian thus
determined by cutting
a groove in the stone
set last evening on which
the true meridian falls
.25 ins East of the mark
determined by the solar

at 8.10 A.M. l. ul. t., I set
off $34^{\circ} 40' N.$ on the Lat. arc,
 $40^{\circ} 39' N.$ on the Mer. arc,
and mark the true merid-
ian thus determined with
the solar by a cross on the stone.

Boundary of T 13-N. R 5-E. Continued

Already set 5 chs N. of
my station, this watch
falls 28 ins. east of the
true meridian established
by the Polaris obser-
vation. The solar
apparatus by P. M. and A. M.
observations defines
position for true mer-
idian with sufficient
accuracy therefore I
conclude that the
adjustments of the
instrument are satis-
factory. The magnetic
bearing of the true mer-
idian at 8.30 a. m. is 120°
 $48'$ E. The angle thus
determined reduced by
the Table on page 100

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Survey of Two Miles of East

Chains gives the mean mag.
Decl. $12^{\circ} 44'$

From the Sp. cor. just
described

True $N 3^{\circ} 20' W$

Over Mountainous Land

Between sec. 31 and 36.

Lagoon old $\frac{1}{4}$ cor. plainly
visible.

7.00

Begin descent

11.40

S. Bank of Wet Beaver Creek

14.30

Main channel 30 lbs. wide,
course west

22.95

Cross fence and enter alfalfa
field.

34.21

Fence East and West

34.55

" N. E. and S. W.

40.00

Top of high bluff

40.82

Remains of old $\frac{1}{4}$ cor. a delapi-
dated mound of stones, over stone.

Boundary of T. 15-N. R. 5 E. Continued

chains faintly scribed $\frac{1}{4}$ ":

Set a limestone $18 \times 14 \times 12$ ins., 10 ins. in the ground for $\frac{1}{4}$ corner. marked $\frac{1}{4}$ on N. face. Raise a mound of stone 2 ft base $1\frac{1}{2}$ ft high N. of cor. Pits impract.

Thence North

40.07
80.89

Set 40 lbs East of delapidated mound of stone.

Set a limestone $24 \times 12 \times 8$ ins. 16 ins. in the ground at old cor. point. For cor. of sec. 25-30-31- and 36 marked 1 notch on S. and 5 on N. edges, raise a mound of stone 2 ft base $1\frac{1}{2}$ ft high N. of cor. Pits impract. Took course of East half mile N. 34' W. N. 15' land

Resurvey of Two Miles of the East

Chs. 80.89 chs. Soil 1st and
4 rate. Timber none
except along Wet Beaver
where cottonwood and
ash abound.

Undergrowth scrub cedar.

2. But secs. 25 and 30
Over mountainous land
and scrub brush of
cedars.

8.80 Begin descent

11.20 Abrupt "

14.00 Wash, 30 lbs wide -
course N. E. ~~xxxx~~ ~~xxxx~~

35.55 Cross Wash 30 lbs
wide, course S. E.

40.27 Fall 4 links N. of old
 $\frac{1}{4}$ cor. a mound of stone
delapidated.

Boundary of T 15 - N. R. 5 E. - Continued

Chs. Reestablished same at original place by setting a limestone 24x14x18 ins marked $\frac{1}{4}$ on N. face set 16 ins. in the ground.

From which -

A cedar 5 ins. in diam. marked $\frac{1}{4}$ S. 25 - B. T. Bears

S. 50. Deg, N. 23 lbs Dist
a cedar 18 ins. in diam.

bears N. 80 E, marked $\frac{1}{4}$
S. 30 B. T. 150 lbs Dist.

True course of line
N. 3' E.

Thence North on
true line up a Draw

Cross Wash 30 lbs wide S. W.

same " " " " S. E.

" " " " " S. W.

41.77

44.17

48.07

74 Resurvey of Two Miles of the East

Chs.					
53.62	Samer Wash	30 lbs	Widr	S. E.	
59.82	"	"	"	"	S. W.
62.37	"	"	"	"	S. E.
63.37	"	"	"	"	S. W.
64.27	"	"	"	"	S. E.
65.77	"	"	"	"	S. W.
66.77	"	"	"	"	S. E.
69.37	"	"	"	"	S. W.
70.27	"	"	"	"	S. E.
73.87	"	"	"	"	S. W.
80.27	Full on Remains of old cor, slight evidence of decayed stake.				

Set a limestone 16 x 8 x 6 ins, 10 ins in the ground for cor. of section 19-24-25 and 30 marked with 2 rollers on S. and 4 on N. edges. Dig pits 18 x 18 x 12

Boundary of S. 15 N. R. 5 E. Continued

Chs. Pins in each section, $5\frac{1}{2}$
ft. distant and raise
a mound of rubble 4 ft
base 2 ft high N. of cor.
No bearing trees avail-
able. Sided Mountainous
80.27 chains.

Scattering Mesquite
and cedar timber.

Soil 4 rate

Underbrush cedars
scattering

Aug 23. 1952.

General Description

This line being the recovery of 20 miles of the east boundary of T 15 N. R. 5 E. runs over Wts. land and through deep draws, crossing Wet Beaver Creek in first half mile.

T 15 N. R. 6 E. should be subdivided.

The famous Wouteguan Well bears $\frac{1}{2}$ mile E. of $\frac{1}{4}$ cor. bet. Secs. 31 and 36.

James H. Girard
Park W. Patimer
U.S. Deputy Surveyor

No. 1430 BOOK 1430 17

Office of U. S. Surveyor General,

Phoenix, Arizona, April 14, 1903.

The foregoing field notes of the ^{re.} survey of the 2 miles of East Bdy. Tpk 15 N., R. 5 E.

Gila and Salt River Base and Meridian, in Arizona, executed by *James B. Grand & Park W. Latimer*

U. S. Deputy Surveyor, under Contract No.

101-dated *June 30-1902.* ^{4th Ins. of Aug. 6/02.} having been

critically examined, the necessary corrections and explanations made, the said field notes and the surveys they describe are hereby approved.

August H. Price

U. S. Surveyor General, for

- District of Arizona.