

Exterior
BOOK "Z"

2553

BOOK 2553

FIELD NOTES

OF THE SURVEY OF THE

North boundary and part of East bdy. of Township No. 27 N.

Range No. 15 East.

and Resurvey of

part of East bdy. of Tp. 27 N. - R. 15 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

Special Instructions from the Commissioner of the General Land Office

Under ~~his Contract No.~~ dated ~~Oct 2nd 1907~~ and ~~May 15th 1908~~

Survey & Re Survey commenced November 19th 1908

Survey & Re Survey completed November 20th 1909

NAMES AND DUTIES OF ASSISTANTS.

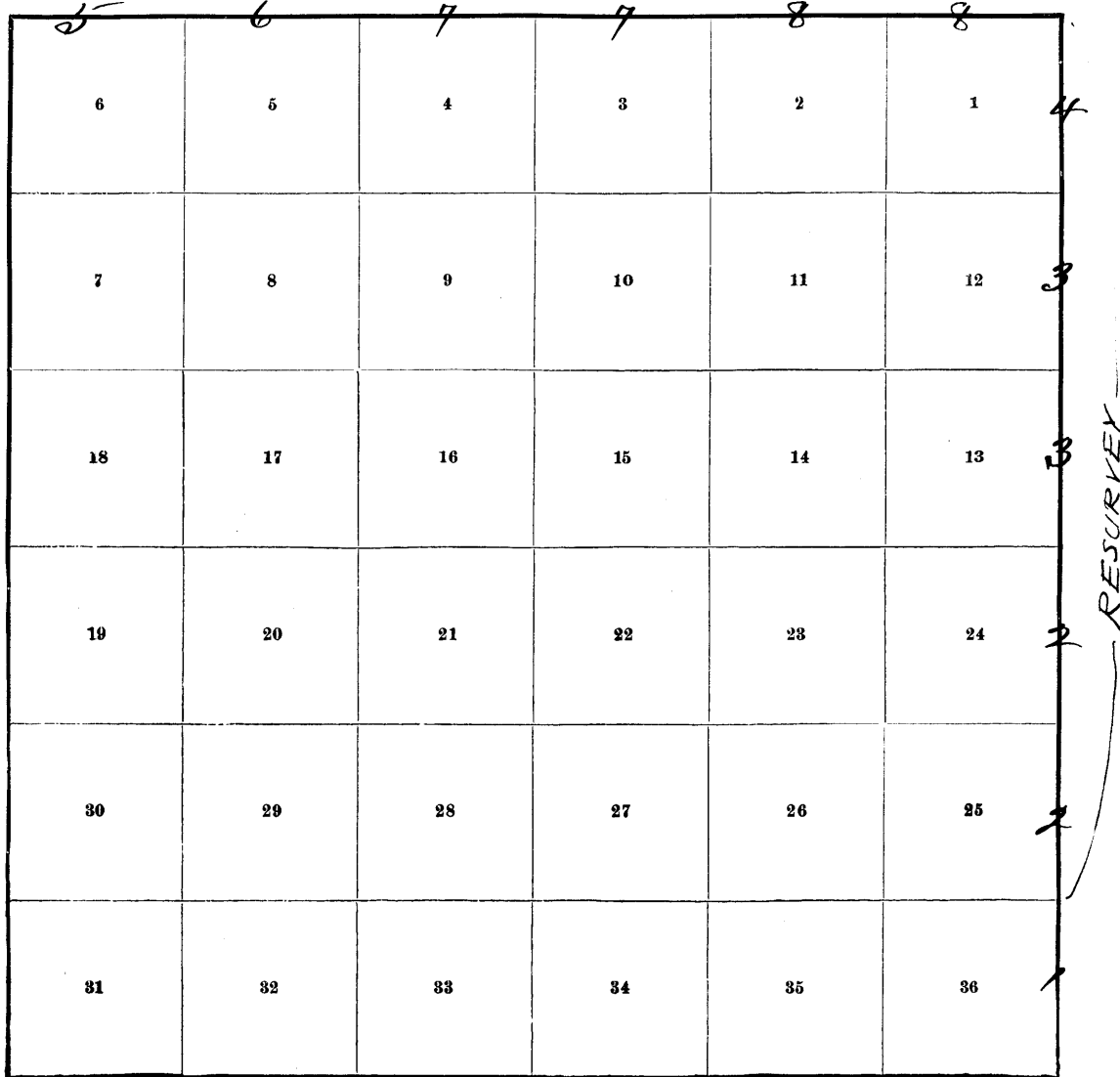
Ralph N. Westrand	Chairman	East Boundary
Jay E. Jellick	Chairman	
Fred L. Warner & Chas. L. Shumway	Moundmen	
Robt. E. Claborn	Flagman	
Harry Lake May	Flagman	

Earl Albright	Chairman	North Boundary
Fred L. Warner	Chairman	
William P. Carson	Moundman	
Chas. L. Shumway	Moundman	
Ralph C. Sampson	Flagman	

57
15

INDEX DIAGRAM.

Township No. 27 N., Range R. 15 E.



Meanders Page _____

58
1C

BOOK 2553

FOR PRELIMINARY OATHS OF ASSISTANTS. To
SURVEY & RESURVEY OF EAST BDY. OF T. 27N. R. 15E see Ext. Bk "K"
TO SURVEY OF NORTH BDY " T. 27N. R. 15E " Ext. Bk "M"

WE, _____ and _____
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 survey of _____

_____, Chainman.
_____, Chainman.

Subscribed and sworn to before me this _____ }
day of _____, 190 }



WE, _____ and _____
do solemnly swear that we will well and truly perform the duties of moundmen in the establishment of corners, according to the instructions given us, to the best of our skill and ability, in the survey of _____

_____, Moundman.
_____, Moundman.

Subscribed and sworn to before me this _____ }
day of _____, 190 }



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 _____, 190 }



I, _____, do solemnly swear that I will well and truly perform the duties of flagman according to instructions given me, to the best of my skill and ability, in the survey of _____

_____, Flagman.

Subscribed and sworn to before me this _____ }
day of _____, 190 }



Survey Commenced November 19th 1908 and executed with a Young & Dow 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.

Examine the adjustments of the transit and correct the level and collimation errors. -

Begin at the Cor. of T¹/₄ 26 and 27 N. R's 15 and 16 E., which. ^{as described in Exterior Book "M"}
 Established November 4th 1908, Latitude 35° 41' N. Longitude 110° 41' 32" W
 At 6^h 24^m a.m. l.m.t. by my watch which is correct local mean time. I observe Polaris in accordance with instructions in the Manual and mark the direction thus determined by a tack driven in a stake set in the ground 5.00 ch. N. of the cor.

Astron l.m.t. of obs Nov. 19 1908	6 ^h 24 ^m
Equivalent to time of Nov. 18 1908	30.24
U.C. Polaris Nov. 15 th 1908	9 48.7
Reduction to Nov 18 th Subtimes	11.1
U.C. Polaris Nov 18 th	4.36.9 Subtract 11.1
Hour angle Polaris at observation	20 47.1
Subtract from True azimuth from Table VII	23 56.1
Azimuth of Polaris at observation	3 09 1° 04' E.

November 19th 1908.

1908
 November 20th At 8^h 30^m a.m. l.m.t. I lay off the azimuth of Polaris 1° 04' to the west and mark the meridian thus determined by a nail driven in a stake set in the ground 5.00 N. of the Cor.
 Thence I run, on true line,
 North, bet. sec. 31 and 36.

- 3.00 Leave rolling sandy land through sage and greasewood brush undergrowth and bunch grass.
- 10.00 Pass rolling land bears N.E. and S.W., enter hilly land bears N.E. and S.W. close N.W. slope
- 40.00 Foot of descent in depression bears N.E. and S.W., leave hilly land bears N.E. and S.W., enter rolling land bears N.E. and S.W.
- 40.00 Set an iron post 3 ft long 1 in in diam, 26 ins. in the ground for ¹/₄ sec. cor. marked on brass cap ¹/₄ S. 36 on W. half and S 31 on E half.
- Dig pits 18x18x12 ins. N and S. of post 3 ft. dia. and raise a mound of earth 3 1/2 ft base 1 1/2 ft high. W. of cor.

Resurvey of part of the East boundary of Twp. 27 N. R 15 E.

2 of plains

- 49.00 Leave rolling land bear N.E. and S.W. enter hilly land bear N.E. and S.W., ascend S.E. slope of ridge.
- 56.00 Top of ascent on point of ridge bear N.E. and S.W. desc. N.W. slope.
- 80.00 Set an iron post 3ft. long 3 ins. in diam. 24 ins. in the ground for re-established Cor. of Secs. 25, 30, 31 and 36 marked on brass Cop T 27 N. on N. half R 15 E S 25 in N.W. R 15 E S 30 in N.E. S 31 in S.E. and S 36 in S.W. quadrants. Dig pits 18x18x12 ins. in each sec. 5 1/2 ft. dia. and raise a mound of earth 4 ft. base, 2 ft. high W. of Cor. Find no trace of old sec. cor. Land rolling and hilly. Soil sandy and stony 3rd and 4th rate. No timber

- North, bet. Secs. 25 and 30, resurveying,
Descend N.W. slope over hilly sandy land, ridges and ravines through scattering sage and greasewood brush undergrowth and bunch grass.
- 20.00 No trace of old 1/16 sec. cor.
- 34.50 Dry ravine course N.W. asc.
- 37.00 Top of ridge bear N.E. and S.W. desc.
- 40.00 Set an iron post 3ft. long 1 in in diam. 26 ins. in the ground for re-established Cor. marked on brass Cop 4 S 25 on W half and S 30 on E half. Dig pits 18x18x12 ins N and S. of post 3ft. dia. and raise a mound of earth 3 1/2 ft. base 1 1/2 ft. high W. of Cor. No trace of old 1/4 sec. cor. can be found.
- 44.70 Dry ravine course W. thence over broken land ridges and ravines.
- 60.00 No trace of old 1/16 sec. cor.
- 73.00 Point of ridge bear E. and W. desc.
- 80.00 Set an iron post 3ft. long 3 ins. in diam. 24 ins. in the ground for re-established Cor. of Secs. 19, 24, 25 and 30. marked on brass Cop T 27 N. on N. half, R 15 E S. 24 in N.W. R 15 E S. 19 in N.E. S 30 in S.E. and S 25 in S.W. quadrants. Dig pits 18x18x12 ins. in each sec. 5 1/2 ft. dia. and raise a mound of earth 4 ft. base, 2 ft. high W. of Cor. No trace of old sec. cor. can be found. Land hilly and broken. Soil sandy 3rd rate. No timber.

- North, bet. Secs. 19 and 24, resurveying,
Over low rolling sand hills, through sage and greasewood brush undergrowth and bunch grass.
- 1.70 Road to Burro Spring bear N.E. and S.W.

12.00 Poth. of descent in valley along the Oraibi Wash., leave hilly
land bears N.E. and S.W., enter level adobe land bears N.E. and S.W.
20.00 No trace of old 1/16 sec. cor.
40.00 Set an iron posth. 3 ft. long 1 in. in diam. 26 ins. in the ground-
re-established
for 4 rec. cor. marked on brass Cop 7 3 24 on W half and 3 19
on E half.
Dig pits 18x18x12 ins. N and S. of posth. 3 ft. dia. and raise a
mound of earth 3 1/2 ft. base, 1 1/2 ft. high W. of cor. No trace of old 1/16 sec. cor. can be found.

41.00 Oraibi Wash. (dry) 150 lvs. wide, banks 2 ft. high curved S.W.
60.00 No trace of old 1/16 sec. cor.
80.00 Set an iron posth. 3 ft. long 3 ins. in diam. 24 ins. in the ground
re-established
for 4 rec. cor. of recs. 13, 18, 14 and 24. marked on brass Cop T 27 N,
on N. half, R 15 E S 13 in N.W., R 16 E. S 18 in N.E. S 19 in S.E. and
S 24 in S.W. quadrants.
Dig pits 18x18x12 ins. in each rec., 5 1/2 ft. dia. and raise a
mound of earth 4 ft. base 2 ft. high W. of cor. No trace of old
sec. cor. can be found
Land level and hilly.
Soil sandy and adobe 2nd and 3rd r etc.
No timber

North, beh. sees. 13 and 18, resurveying,
Over level adobe bottom land through sage and greasewood bush
undergrowth and bunch grass.
20.00 No trace of old 1/16 sec. cor.
40.00 Set an iron posth. 3 ft. long 1 in. in diam. 26 ins. in the ground
re-established
for 4 rec. cor. marked on brass Cop 7 5 13 on W half and
3 18 on E half.
Dig pits 18x18x12 ins. N and S. of posth. 3 ft. dia. and raise a
mound of earth 3 1/2 ft. base 1 1/2 ft. high W. of cor. No trace of old
1/16 sec. cor. can be found.

60.00 No trace of old 1/16 sec. cor.
67.60 Road from Winslow Arizona to Oraibi Arizona bears
N.E. and S.W.
75.00 Leave level adobe land bears N.E. and S.W., enter hilly sandy
land bears N.E. and S.W.
80.00 Set an iron posth. 3 ft. long 3 in. in diam. 24 ins. in the ground for
re-established
1 Cor. of recs. 7, 12, 13 and 18, marked on brass Cop T 27 N. on
N half. R 15 E S 12 in N.W., R 16 E S 7 in N.E. S 18 in S.E. and
S 13 in S.W. quadrants.
Dig pits 18x18x12 ins. in each sec. 5 1/2 ft. dia. and raise a
mound of earth 4 ft. base 2 ft. high W. of cor. No trace of old sec.
Land level and hilly.
Soil sandy and adobe 2nd and 3rd r etc.
No timber

North, beh. sees. 7 and 12, resurveying,
Over low rolling sand hills through sage and greasewood bush.

BOOK 2553

20.00 undergrowth and bunch grass
 No trace of old $\frac{1}{16}$ sec. cor.
 40.00 Set an iron post, 3 ft. long 1 in in diam 26 ins. in the ground for re-established
 4 sec. cor. marked on brass Cop. $\frac{1}{4}$ S 12 on W half and 37 on E half.
 Dig pits 18 x 18 x 12 ins N and S. of post 3 ft. dist and raise a mound
 of earth 3 $\frac{1}{2}$ ft. base 1 $\frac{1}{2}$ ft. high. W. of cor.; No trace of old $\frac{1}{4}$ sec. cor. can be found.
 60.00 No trace of old $\frac{1}{16}$ sec. cor.
 80.00 Set an iron post, 3 ft. long 3 ins in diam 24 ins in the ground for re-established
 cor. of sec. 1, 6, 7 and 12 marked on brass Cop T 27 N on N. half.
 R 15 E S 1 in NW, R 16 E S 6 in N.E. S 7 in S.E. and S 12 in SW. Quadrants
 Dig pits 18 x 18 x 12 ins. in each sec. 5 $\frac{1}{2}$ ft. dist. and raise a
 mound of earth 4 ft. base, 2 ft. high. W. of cor. No trace of old sec. cor.
 Land hilly.
 Soil sandy 3rd rate.
 No timber

North, bet. sec. 1 and 6; resurveying.
 Over low rolling sand hills through sage and greasewood brush
 and bunch grass.
 20.00 No trace of old $\frac{1}{16}$ sec. cor.
 37.00 Begin rapid ascent over S.E. slope of sand ridge.
 40.00 Set an iron post, 3 ft. long 1 in in diam. 26 ins. in the ground for re-established
 cor. marked on brass Cop $\frac{1}{4}$ S 1 on W half, and S 6 on E half.
 Dig pits 18 x 18 x 12 ins N and S. of post, 3 ft. dist. and raise a
 mound of earth 3 $\frac{1}{2}$ ft. base, 1 $\frac{1}{2}$ ft. high. W. of cor. No trace of old $\frac{1}{4}$
 sec. cor. can be found
 57.00 Top of sand ridge bears N.E. and S.W. desc.
 58.20 Dry ravine course S.W. asc.
 58.50 Sand stone ledges 10 ft. high bears N.E. and S.W.
 60.00 No trace of old $\frac{1}{16}$ sec. cor.
 67.00 Top of ridge bears N.E. and S.W. desc. gradually over
 N.W. slope
 80.00 Set an iron post, 3 ft. long 3 ins in diam. 24 ins in the
 ground for re-established
 cor. of Tps 27 and 28 N. R 15 and 16 E. marked
 on brass Cop T 28 N on N. half. T 27 N. on S half, R 15 E S 6
 in NW, R 16 E S 31 in N.E. R 16 E S 6 in S.E. and R 15 E S 1 in
 SW. quadrants.
 Dig pits 24 x 24 x 12 ins on line N.E. and W. 4 ft. and S. of
 post, 8 ft. dist and raise a mound of earth 5 ft. base 2 $\frac{1}{2}$
 ft. high. S. of cor. No trace of old T. cor. can be found.
 Land hilly.
 Soil sandy and stony 3rd and 4th rate.
 No timber

November 20th 1908

The final oath of assistants who assisted in
 the survey of this line will be found in Book "O" of
 the Exterior

Survey Commenced November 19th 1909, and executed with a W and L. E. Surley engineers transit No. 76. with a Burk 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 to be as nearly perfect as I can make them, and know from recent tests of the solar apparatus by comparing its indications, resulting from solar observations made during am. and p.m. hours, with a meridian established by observations on Polaris that the instrument is in satisfactory adjustment.

I begin at the cor. of Twp. 27 and 28 N. R's 15 and 16 E. ^{hereinbefore described} which I established November 20th 1908.

Latitude $35^{\circ}46'14''$ N. Longitude $110^{\circ}41'22''$ W.

At 8^h 00^m a.m. ^{l.m.t.} I set off $35^{\circ}46\frac{1}{4}'$ N. on the lab. arc, $19^{\circ}22'$ S. on the decl. arc, and determine a meridian with the solar, Thence I run,

$N89^{\circ}56' W.$, on a random line, along the N. side of Twp. 27 N. R. 15 E., setting temp. $\frac{1}{4}$ sec. and sec. cor. at intervals of 40.00 chs. and at 479.38 chs. intersect N. and S. line 24 lks. N. of the cor. of Twp. 27 and 28 N. R's 14 and 15 E. which I established November 18th 1909, as described in Exterior Book "AD"

The falling answers to a correction of $0^{\circ}02'$ on 4 lks.

S. per mile counting from the N.E. cor. of the Twp.

NOTE: Clouds obscure the sun at noon today rendering an observation for latitude with the solar impossible.

November 19th 1909

November 20th 1909, At 8^h 00^m a.m. ^{l.m.t.} I set off $35^{\circ}46'$ N. on the lab. arc, $19^{\circ}36'$ S. on the decl. arc and determine a meridian with the solar at the cor. of Twp. 27 and 28 N. R's 14 and 15 E., ^{described in Exterior Book "AD"} Thence I run,

$S89^{\circ}58' E.$, 6 and 31, marking the true line descend steep rocky E. slope over stony hilly land through scattering sage brush and bunch grass.

- 16.40 Top of sand stone ledge 8 ft. high. bears N.E. and S.W.
- 20.90 Dry ravine course S.E. arc.
- 21.65 Top of ridge bears N.W. and S.E. extends 3 chs S. of line. desc.
- 22.80 Dry rocky ravine course S.E. arc.
- 30.60 Top of ridge bears N and S., extends S. of line 4 chs. desc.

Survey of the North boundary of Tp 27 N. R 15 E.

6

Behave

BOOK 2553

- 36.50 Dry ravine course S.W. ave.
- 38.30 Top of ridge bears N and S. desc.
- 39.38 Set an iron post 3ft. long 1 in. in diam. 26 in. in the ground for $\frac{1}{4}$ sec. cor. marked on brass cap $\frac{1}{4}$ S 31 on N. half and S 6 on S. half.
Dig pits 18x18x12 in. E and W. of post. 3ft. dia. and raise a mound of earth $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high. W. of cor.
- 43.55 Dry ravine 15 lbs. wide 3ft. deep. Course S.E. ave.
- 44.10 Top of ridge bears N.W. and S.E. desc.
- 45.00 The same ravine course N.E. ave.
- 45.50 Top of ridge bears N. and S. desc.
- 47.15 The same ravine course S.E. ave.
- 49.10 Top of sand ridge bears N.W. and S.E. desc.
- 62.60 Dry sand wash 60 lbs wide course S.E. ave.
- 79.38 Set an iron post 3ft. long 3 in. in diam. 24 in. in the ground for cor. of sec. 5, 6, 31 and 32, marked on brass cap R 15 E on E half. T 28 N S 32 in N.E. T 27 N S 5 in S.E. S 6 in S.W. and S 31 in N.W. quadrants.
Raise a mound of stone 2ft. base, $1\frac{1}{2}$ ft. high. W. of cor
Pits impracticable
Sand broken and hilly.
Soil sandy and stony 3rd and 4th rate.
No timber.

D 89° 58' E., bet. sec. 5 and 32,

Across S.W. slope over rolling and hilly sandy land through scattering sage and greasewood brush undergrowth and bunchgrass.

- 4.20 Road bears N.W. and S.E.
- 4.25 Top of ridge bears N.W. and S.E. desc.
- 40.00 Set an iron post 3ft. long 1 in. in diam. 26 in. in the ground for $\frac{1}{4}$ sec. cor. marked on brass cap $\frac{1}{4}$ S 32 on N. half and S 5 on S half.
Dig pits 18x18x12 in. East W. of post. 3ft. dia. and raise a mound of earth $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high. W. of cor.
- 63.30 Dry sand wash 30 lbs. wide course S.E. ave.
- 79.30 Top of sand ridge bears N.W. and S.E. desc. gradually over N.E. slope
- 80.00 Set an iron post 3ft. long 3 in. in diam. 24 in. in the ground for cor. of sec. 4, 5, 32 and 33, marked on brass cap R 15 E on E half. T 28 N S 33 in N.E. T 27 N S 4 in S.E.

Survey of the North boundary of Twp 27 N. R 15 E.
 Chains

7

S 5 in S.W. and S 32 in N.W. quadrants.
 Dig pits 18x18x12 ins. in each sec. 5 1/2 ft. diam and raise
 a mound of earth 4 ft. base. 2 ft. high. W. of cor.
 Land rolling and hilly.
 Soil sandy and stony 3rd and 4th rate.
 No timber

S 89° 58' E., bet. sec. 4 and 33,
 Descend N.E. slope over rolling sandy land through
 scattering sage and greasewood bush undergrowth
 and bunch grass.
 40.00 Set an iron post. 3 ft. long 1 in in diam. 26 ins in
 the ground for 1/4 sec. cor. marked on base cap 1/4 S 33
 on N. half and S. 4 on S. half
 Dig pits 18x18x12 ins. East W. of post. 3 ft. diam. and raise
 a mound of earth 3 1/2 ft. base 1 1/2 ft. high. W. of cor.
 42.30 Road to Tuba, Arizona, bears N and S.
 69.70 Foot of descent in depression bears N and S. drains to
 the S. asc. gently.
 77.80 Top of sand ridge bears N and S. desc
 80.00 Set an iron post. 3 ft. long 3 in in diam. 24 ins in
 the ground for cor. of sec. 3, 4, 33 and 34 marked on
 base cap T 15 E on E half. T 28 N. S 34 in N.E. T 27 N S
 3 in S.E. S 4 in S.W. and S 33 in N.W. quadrants.
 Dig pits 18x18x12 ins. in each. sec. 5 1/2 ft. diam. and
 raise a mound of earth 4 ft. base. 2 ft. high. W of cor
 Land rolling
 Soil sandy 3rd rate
 No timber

NOTE:- At this cor Det off. 19° 40' S. on the decl. arc and
 at noon observe the sun on the meridian the
 resulting latitude being 35° 46' N.

S 89° 58' E., bet. sec. 3 and 34,
 Descend E. slope over rolling sandy land through scattering
 sage and greasewood bush undergrowth and bunch grass.
 1 00 Foot of descent in depression bears N and S., asc.
 24.50 Top of ridge bears N.E. and S.W. desc.
 40.00 Set an iron post. 3 ft. long 1 in in diam. 26 ins. in the
 ground for 1/4 sec cor marked on base cap 1/4 S 34 on N. half and S 3 on S. half

Survey of the North boundary of Tps 27 N, R 15 E

8

78.00 Dig pits 18x18x12 ins. Round 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. Proof of descent in depression bears N. and S. drains S. are gradually.

80.00 Set an iron post 3 ft. long 3 ins. in diam. 24 ins. in the ground for cor. of sec. 2, 3, 34 and 35 marked on brass cap N 15 E on E. half, T 28 N S 35 in N.E. T 27 N S 2 in S.E. S 3 in S.W. and S 34 in N.W. quadrants.

Dig pits 18x18x12 ins. in each. sec. 5 1/2 ft. dish. and raise a mound of earth 4 ft. base. 2 ft. high. W. of cor.

Land rolling

Soil sandy 3rd rate.

No timber.

S 89° 58' E, bet. sec. 2 and 35,

ascend W. slope over rolling sandy land through scattering sage and greasewood brush undergrowth and bunch grass

80.65 Top of sand ridge bears N. and S. desc.

40.00 Set an iron post 3 ft. long 1 in in diam 26 ins. in the ground for 1/4 sec. cor. marked on brass cap 1/4 S 35 on N. half. and S 2 on S. half.

Dig pits 18x18x12 ins. Round W. of post 3 ft. dish. and raise a mound of earth 3 1/2 ft. base. 1 1/2 ft. high. W. of cor.

79.00 Proof of descent in depression bears N and S drains N. are.

80.00 Set an iron post 3 ft. long, 3 ins. in diam. 24 ins. in the ground for cor. of sec. 1, 2, 35 and 36. marked on brass cap N 15 E on E. half, T 28 N S 36 in N.E. T 27 N S 1 in S.E. S 2 in S.W. S 35 in N.W. quadrants.

Dig pits 18x18x12 ins. in each. sec. 5 1/2 ft. dish. and raise a mound of earth 4 ft. base, 2 ft. high W. of cor.

Land rolling.

Soil sandy 3rd rate.

No timber.

S 89° 58' E, bet. sec. 1 and 36;

ascend W. slope over rolling sandy land through scattering sage and greasewood brush undergrowth

Survey of the North boundary of Twp 27 N. R 15 E.
Chains

- and bunch grass
 - 4.00 Top of sand ridge bears n. and S. desc.
 - 28.00 Foot of descent in depression bears n.w. and S.E. drains to the S.E. asc. gradually.
 - 40.00 Set an iron post 3 ft. long 1 in in diam. 26 ins. in the ground for $\frac{1}{4}$ sec. cor. marked on base cap. $\frac{1}{4}$ 8. 36 on n. half and 51 on S. half. Dig pits 18x18x12 ins. E and W. of post. 3 ft. dia. and raise a mound of earth 3 $\frac{1}{2}$ ft. base 1 $\frac{1}{2}$ ft. high n. of cor.
 - 58.00 Top of sand ridge bears n. and S. desc.
 - 80.00 Intersect the ^{re-established} Cor. of Twp. 27 and 28 N. R's 15 and 16. E., hereinbefore described.
- Land rolling.
Soil sandy 3rd rate.
No timber.

November 20th 1909

Boundaries of Twp 27 N. R 15 E.
Latitudes Departures and Closing Errors.

Line Designated	True Bearing	Distance	Latitudes		Departures	
			N	S	E	W
South Boundary	N89°56'W	480.20	0.66			480.20
West Boundary	NORTH	480.00	480.00			
North Boundary	S89°58'E	479.38		0.28	479.38	
East Boundary	SOUTH	480.00		480.00		
Convergency					0.51	
Totals			480.66	480.28	479.89	480.20
			480.28			479.89
Error in Lat.			0.38		Error in Departure	.31

General Description.
This township is a low rolling mead country covered with an abundant growth of different varieties of grass. The township is watered by two springs and the Craibi Wash., and there is some cedar timber in the north western part. The land along the Craibi Wash. is suitable for agricultural purposes. The township should be surveyed.
Sidney E. Blount
U.S. Examiner of Surveys
Nov. 20th 1909

U.S. EXAMINER OF SURVEYS
FINAL OATHS OF ~~DEPUTY SURVEYOR~~ AND HIS ASSISTANTS.

LIST OF NAMES.

A list of the names of the individuals employed by Sidney E. Blouh
Examiner of Surveys
~~United States Deputy Surveyor~~, to assist in running, measuring, and
marking the lines and corners described in the foregoing field notes of the survey of the North and
part of East boundary and resurvey of part of East boundary of Tp. 27 N. R. 15 E. of the
showing the respective capacities in which they acted: G. & S. R. Base & Meridian, Arizona.

- Fred L. Warner Chainman.
- Carl Albright Chainman.
- Chas. L. Shumway Moundman.
- William R. Carson Moundman.
- Assman.
- Assman.
- Ralph C. Sampson Flagman.

FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted Sidney E. Blouh
Examiner of Surveys
~~United States Deputy Surveyor~~, in surveying ~~and~~
~~or resurveying~~ those parts or portions of the North and East bdrs. of Twp. No. 27 North of Range
No. 15 East

..... of the Gila and
Salt River Base and meridian, Territory of Arizona, which are represented
in the foregoing field notes as having been surveyed, ~~or resurveyed~~ by him and under his direction; and that said survey
~~and resurvey~~ has been in all respects, to the best of our knowledge and belief, well and faithfully ~~surveyed~~ ^{executed}, and the
corner monuments established, ~~or re-established~~ according to the instructions furnished by the ~~United States Surveyor~~ ^{Commissioner}
~~General for~~ of the General Land Office, Van G. White, Compassman:
Carl Albright and Fred L. Warner Chainman.
..... Chainman.
William R. Carson Moundman.
Chas. L. Shumway Moundman.
..... Assman.
..... Assman.
Ralph C. Sampson Flagman.

Subscribed and sworn to before me this 22nd
day of December, 1909

Sidney E. Blouh
U.S. Examiner of Surveys



EXAMINER OF SURVEYS
FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.
(same applies to Exterior Book O)

I, Sidney E. Blout, United States ^{Examiner of Surveys} Deputy Surveyor, do solemnly swear that, in pursuance of ~~contract~~ ^{Special Instructions} received from ~~the Commissioner of the~~ ^{the Commissioner of the} United States Surveyor General for ~~the General Land Office~~, bearing date of the ^{2nd day of Oct. 1907} ~~day of~~ ^{and the 15th day of May}, 1908, I have well, faithfully, and truly, in my own proper person, and in strict conformity with the instructions furnished by the United States ^{Commissioner} Surveyor General for ~~the General Land Office~~, the Manual of Surveying Instructions, and the laws of the United States, surveyed ^{or resurveyed} all those parts or portions of The East and North boundaries of Twp. No. 27 N. R. No. 15 East; and East boundary of Tp. No. 28 North, Range No. 15 East

of the Gila and Salt River Base and Meridian, in the Territory of Arizona, which are represented in the foregoing field notes, ^{and those in Exterior Book "O"} as having been surveyed ^{or resurveyed} by me, and under my direction; and I do further solemnly swear that all the corners of said ^{and resurvey} survey, ^{or re-established} have been established, and perpetuated in strict accordance with the Manual of Surveying Instructions, and the special written instructions of the United States ^{Commissioner} Surveyor General for ~~the General Land Office~~ ^{and notes in Exterior Book "O"} and in the specific manner described in the field notes, and that the foregoing ^{and resurvey} are the original field notes of such survey.

Sidney E. Blout
United States Deputy Surveyor
Examiner of Surveys

Subscribed by said Sidney E. Blout, and sworn to before me }
this 14th day of March, 1908

Frank S. Ingalls
SURVEYOR-GENERAL OF ARIZONA



APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Phoenix, Arizona, APR 25, 1908

The foregoing field notes of the survey of the
North and part of the East boundary of
and resurvey of
part of the East boundary of
Township No. 27 North, Range No. 15 East of the
Gila and Salt River Base and Meridian, Arizona

executed by Sidney E. Blout, U.S. Examiner of Surveys
under ~~his contract No.~~ ^{Special Instructions from the Commissioner of the General Land Office}, dated October 2, 1907 and May 15, 1908, ~~190~~, 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.

Frank S. Ingalls
United States Surveyor General
SURVEYOR-GENERAL OF ARIZONA

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

United States Surveyor General.