

MAR 28 1911

Exterior
BOOK-W-

2550

BOOK 2550

FIELD NOTES

OF THE SURVEY OF THE

*East, West, and North boundaries of Twp. 29 North
Range No. 15 East.*

Of the *Gila and Salt River Basal* and Meridian,

in the Territory of Arizona

EXECUTED
AS SURVEYED BY

Sidney E. Blunt

United States

Examiner of Surveys
~~Deputy Surveyor~~

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

Survey commenced *April 8th* _____, 1909

Survey completed *April 27th* _____, 1909

1A

BOOK 2550

NAMES AND DUTIES OF ASSISTANTS.

Van & White

Compassman

Lafayette Jennings

Chairman

Chas. L. Shumway

Chairman

Pred. L. Warner

Woundman

Arthur A. Beard

Arman

Jay E. Jellick

Flagman

H. L. May

Flagman

BOOK 2550

INDEX DIAGRAM.

Township No 29 North, Range No. 15 East.

	12	13	13	14	14	15	
10	6	5	4	3	2	1	5
10	7	8	9	10	11	12	4
9	18	17	16	15	14	13	3
8	19	20	21	22	23	24	2
8	30	29	28	27	26	25	2
7	31	32	33	34	35	36	1

Meanders Page.....

PRELIMINARY OATHS OF ASSISTANTS.

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 _____ }



See Exterior Book

Sketch

Survey commenced April 8th 1909 and executed with a W and L. E. Surley engineers transit no. 76 with a Bush 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.

Examine the adjustments of the transit and correct slight errors of the levels and line of collimation and knowing from recent tests of the solar, by comparing the results of observations made on the sun during am. and pm. hours with a meridian determined by observation on polaris that it is in satisfactory adjustment. I begin at the Standard Cor. of Twp. 29 N. R 15 and 16 E, on 7th Standard Parallel North

which was established Dec. 15th 1908 as described in Standard Book "C" Latitude 35° 51' 28" N, Longitude 110° 40' 48" W.

At 8^h 00 am ^{1. m⁺} set off 35° 51 1/2' N. on the lat. arc. 7° 08' on the decl. arc and determine a meridian with the solar at the above mentioned cor.,

Then I run,

North, Sec. 31 and 36,

Over rolling sandy land through scattering sage and greasewood bush and bunch grass

8.00 Leave undergrowth from N.W. and S.E. enter cultivated land from N.W. and S.E.

9.75 Road from Puba Ariz to Oraibi Ariz on East W.

14.00 Dry sand wash course S.E.

22.00 Leave cultivated land from N.W. and S.E., enter sage brush undergrowth and bunch grass.

34.00 Road from Puba Ariz to Oraibi Ariz East W.

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

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

80.00 Set an iron post 3 ft. long 3 in in diam. 24 in in the ground for cor. of sec. 25, 30, 31 and 36, marked on brass cap T 29 N. on N. half., R 15 E S 25 in N.W. R 16 E S. 30 in N.E. S 31 in S.E. and S. 36 in S.W. quadrant.

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

Land rolling.
Soil sandy 3rd rate.

No timber

North, bet. sees. 25 and 30,

Ascend S. slope over rolling sandy land through scattering sage and greasewood brush undergrowth and bunch grass.

25.75 Top of ascent on sand ridge trend N.W. and S.E. leave rolling land trend N.W. and S.E., enter hilly land trend N.W. and S.E., desc. N.E. slope

35.50 Dry sand wash 20 lbs wide 20 ft deep course S.E.

39.60 The sand wash 30 lbs wide 20 ft deep course S.W.

40.00 Set an iron post. 3 ft. long 1 in. in diam 26 in. in the ground for $\frac{1}{4}$ sec. cor. marked on base exp $\frac{1}{4}$ S 25 on W. half and S 30 on E halfDig pits 18 x 18 x 12 in. in N and S of post. 3 ft. dist. and raise a mound of earth 3 $\frac{1}{2}$ ft. tall 1 $\frac{1}{2}$ ft. high. W. of cor.

41.20 The sand wash 30 lbs. wide 15 ft. deep course S.E. ascend steep S.W. slope

43.00 Top of sand ridge trend N.E. and S.W. desc. N.W. slope

44.90 Dry ravine 20 lbs wide 6 ft. deep course S.W.

60.50 Dry ravine 15 lbs wide 5 ft. deep course S.W.

62.00 The same ravine 15 lbs. wide 5 ft. deep course S.E. asc. steep S.W. slope of sand ridge.

76.65 Top of sand ridge trend N.E. and S.W. desc. steep N.W. slope

80.00 Set an iron post. 3 ft. long 3 in. in diam 24 in. in the ground for cor. of sees. 19, 24, 25 and 30. marked on base exp. T 29 N, on N. half, N15 E S 24 in N.W.

N16 E S 19 in N.E. S 30 in S.E. and S 25 in S.W. quadrants.

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

Pits impracticable

Land rolling and hilly.

Soil sandy and stony 3rd rate

No timber

North, bet. sees 19 and 24,

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

3.00 Top of mound, leave hilly land trend N.W. and S.E., enter

Behrens

Stony mountainous land bears N.W. and S.E., ascend abruptly over cliffs and ledges.

19.00 Top of abrupt ascent on S. edge of mesa 300 ft. above cor. Leave mountainous land bears E and W enter rolling sandy land and scattering pinion pine and cedar timber bears E and W, ascend gradually

36.00 Top of low sand ridge bears E and W desc. N. slope.

40.00 Set an iron post 3 ft. long 1 in in diam. 26 ins. in the ground for $\frac{1}{4}$ sec. cor. marked on base exp $14^{\circ} 8'$ 24 on W, half and $31^{\circ} 9'$ on E half, from which. A cedar 4 ins. in diam. bears $S 41\frac{1}{2}^{\circ} E$ 200 lks. dist. marked $\frac{1}{4}$ S 19 B.T.

A cedar 5 ins. in diam bears $S 59\frac{1}{2}^{\circ} W$ 93 lks. dist. marked $\frac{1}{4}$ S 24 B.T.

49.75 Top of descent in depression bears N.E. and S.W. drains to the N.E. ascend gradually.

74.00 Leave timber bears E and W.

80.00 Set an iron post 3 ft. long 3 ins. in diam 24 ins. in the ground for cor. of sec. 13, 18, 19 and 24, marked on base exp. T 29 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.

Pass a mound of stone 2 ft. base, 1 1/2 ft. high. W. of cor. Pits unpracticable

Land rolling, hilly and mountainous.

Soil sandy and stony 3rd and 4th rate.

Timber pinion pine and cedar

Mountainous land 16.00 chs.

North, 1/4 sec. 13 and 18;

Over rolling sandy mesa land, ascend S. slope

10.00 Top of sand ridge bears N.E. and S.W. desc. gradually

29.00 Enter scattering cedar and pinion pine timber bears N.E. and S.W.

38.25 River course N.E. side

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 exp $14^{\circ} 3'$ 13 on W, half and $31^{\circ} 8'$ on E half, from which. A cedar 4 ins. in diam bears $N 77\frac{1}{2}^{\circ} E$ 191 lks. dist. marked $\frac{1}{4}$ S 18 B.T.

A cedar 6 ins. in diam. bears $S 69\frac{1}{2}^{\circ} W$ 31 lks. dist. marked $\frac{1}{4}$ S. 13 B.T.

Each boundary of T_{29N}, R_{15E}

4

Chains

NOTE: At this cor. set off $7^{\circ} 15' N$ on the decl. arc, and at
 12.50 - 13.00 observe the sun on the meridian
 the resulting latitude being $35^{\circ} 54\frac{1}{2}' N$

52.00 Edge of sand ridge bear N.W. and S.E. desc. N.E. slope

70.00 Leave timber bear E and W., enter cultivated land bear
 E and W.

80.00 Set an iron post. 3 ft. long, 3 ins. in diam 24 ins. in the
 ground for cor. of sec. 7, 12, 13 and 18. marked out
 brass cap T 29N in N half, R 15E S 12 in N.W. R 16E S 7
 in N.E. S 18 in S.E. and S 13 in S.W. quadrant.

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

From this cor. the N.E. cor. of house in Hotterville
 bears $N 59^{\circ} W$.

Land rolling

Soil sandy 3rd rate.

Timber pinon pine and cedar

North, bet. Secs. 7 and 12.

Over rolling sandy mesa land in cultivated field:

7.45 Road from Hotterville Indian village to Crabb Aug bear
 N.E. and S.W.

26.00 Leave cultivated field bear E and W. enter scattering
 pinon pine and cedar timber bear E and W.

40.00 Set an iron post. 3 ft. long 1 in. in diam, 26 ins. in the
 ground for $\frac{1}{4}$ sec. cor. marked out brass cap. $\frac{1}{4}$ S 12 on W
 half and S 7 on E half. from which,

A cedar 4 ins. in diam bear $N 67\frac{1}{4}^{\circ} E 132$ lbs. dia. marked
 $\frac{1}{4}$ S 7 B.T.

A cedar 4 ins. in diam bear $S 16^{\circ} W 190$ lbs. dia. marked
 $\frac{1}{4}$ S 12 B.T.

From this cor., the N.E. cor. of the sand house in Hotterville
 to which bearing was taken from cor. sec. 7, 12, 13 and
 18. bears $S 32^{\circ} 30' W$.

49.50 North edge of mesa bear N.E. and S.W. leave rolling
 land bear N.E. and S.W. enter stony mountainous
 land bear N.E. and S.W. descend abruptly over
 N.W. slope of mesa

70.00 Leave mountainous land bear N.E. and S.W., enter rolling

East boundary of T₂₉ N. R₁₅ E.

5

Schauins

80.00 Land bears N.E. and S.W. desc. gradually
 Set an iron post. 3 ft. long 3 ins. in diam. 24 ins.
 in the ground for cor. of sec. 1, 6, 7 and 12. marked
 on brass cap T₂₉ N. on N. half, R₁₅ E. S. 1 N.W. R₁₆ E.
 36 in N.E. S 7 in S.E. and S 12 in S.W. quadrants.
 from which.
 A cedar 6 ins. in diam. bears N 63° E 139 lbs. dist.
 marked T₂₉ N. R₁₆ E. S 6 B.T.
 A cedar 6 ins. in diam. bears S 70° W 87 lbs. dist.
 marked T₂₉ N. R₁₅ E. S 12 B.T.
 A cedar 6 ins. in diam. bears N 43½° W 217 lbs. dist.
 marked T₂₉ N. R₁₅ E. S 1 B.T.
 No other trees available
 Dig pit 36 x 36 x 12 ins. in sec. 7. 5½ ft. deep, and
 raise a mound of earth 4 ft. base 2 ft. high W.
 of cor.
 Land rolling and mountainous.
 Soil sandy and stony 3rd and 4th rate.
 Timber - Spruce pine and cedar.
 Mountainous land. 20.50 chs.

North, bet. sec. 1 and 6,
 Descend N.W. slope over rolling sandy land.
 through scattering spruce pine and cedar timber
 and scattering sage brush undergrowth and bunch
 grass.
 12.50 Dry sand wash course N.W. asc.
 16.00 Top of sand ridge bears E and W. desc.
 20.25 Dry ravine course W. asc.
 40.00 Set an iron post. 3 ft. long 1 in in diam. 26 ins. in
 the ground. for ¼ sec. cor. marked on brass cap ¼ S 1
 on W half and S 6 on E. half. from which.
 A cedar 5 ins. in diam. bears N 67½° E 244 lbs. dist.
 marked ¼ S 6 B.T.
 A cedar 10 ins. in diam. bears N 83¼° W 309 lbs. dist.
 marked ¼ S 1 B.T.
 76.75 Leave rolling land bears N.W. and S.E., enter stony
 land bears N.W. and S.E., ascend abruptly over S
 slope of rocky spur, over stony land
 bears N.W. and S.E.
 78.00 Top of spur bears E and W. desc.

Chain

80.00

Set an iron post 3 ft long 3 ins. in diam., 24 ins. in the ground for cor. of Pps 29 and 30 N, R's 15 and 16 E. marked on brass cap. T 30 N on N. half and T 29. N. on S. half. R 15 E S 36 in NW, R 16 E. S 31 in NE, R 16 E S 6 in S.E. and R 15 E S 1 in SW. quadrant from which:

A cedar 6 ins. in diam. bears $N 43^{\circ} E$ 117 lks. dist. marked T 30 N, R 16 E S 31 B.T.

A cedar 5 ins. in diam., bears $S 42\frac{1}{2}^{\circ} E$ 35 lks. dist. marked T 29 N, R 16 E S 6 B.T.

A cedar 8 ins. in diam. bears $S 33\frac{1}{4}^{\circ} W$ 249 lks. dist. marked T 29 N, R 15 E S 1 B.T. and

A cedar 8 ins. in diam. bears $N 11^{\circ} W$ 43 lks. dist. marked T 30 N, R 15 E S 36 B.T.

Land rolling and broken

Soil sandy and stony 3rd and 4th rate.

Timber previous pine and cedar

April 8th 1909

West. boundary of Twp. 29 N. R. 15 E.

Chain

7

Survey Commenced April 26th 1909, and executed with A. W. & L. E. Turley engineers transit No 76 with a Burt 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 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 determined by observations on Polaris. that the solar apparatus is in satisfactory adjustment, therefore I begin at the Standard Cor. of Twp. 29 N. R. 15 E. on the 7th Standard Parallel North which I established April 24th 1909, as described in Standard Book "C" Latitude 35° 51' 28" N, Longitude 110° 47' 13" W.

At 7^h 45^m am ^{1 m. to} set off 35° 51 1/2' N on the lat. arc, 13° 27' N on the decl. arc, and determine a meridian with the solar at the above mentioned Std. Twp. cor., thence Drive,

North, Feb. sec. 31 and 36, Descend NW. slope over rolling sandy land through sage and greasewood bush undergrowth and bunch grass

27.50

Dry ravine 75 lks. wide soft clay course NW. ascend SW slope of sand ridge

36.00

Top of sand ridge bear NW and SE. desc. gently.

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 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.

80.00

At cor 4 ins. in diam bear N 28 1/2 W 69 lks. dia. marked 1/4 S 36 B. F. Set an iron post, 3 ft. long 3 ins. in diam. 24 ins. in the ground for cor. of sec. 25, 30, 31 and 36. marked on base cap T 29 N. on N. half. T 14 E S 25 in NW. R 15 E S 30 in NE, S 31 in SE. and S 36. in SW. 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.

West boundary of Tp. 29 N, R. 15 E.

8
Blaine

Land rolling.
Soil sandy 2nd and 3rd rate
Timber one lone cedar near the 1/4 sec. cor.

North, bet. sec. 25 and 30,
Over rolling sandy land through sage and greasewood
brush undergrowth and bunch grass.

40.00 Set an iron post, 3 ft. long 1 1/2 in. in diam. 26 in. in
the ground for 1/4 sec. cor. marked on brass cap 1/4
S 25 on W half and S 30 on E half.

Dig pits 18 x 18 x 12 in. N and S of post 3 ft. dia. and
have a mound of earth 3 1/2 ft. base, 1 1/2 ft. high W.
of cor.

80.00 Set an iron post, 3 ft. long 3 in. in diam. 24
in. in the ground for cor. of sec. 19, 24, 25 and
30, marked on brass cap T 29 N. on N. half
T 148 S 24 in N.W. T 15 E. S 19 in N.E. S 30 in S.E.
and S 25 in S.W. quadrants.

Dig pits 18 x 18 x 12 in. in each sec. 5 1/2 ft. dia. and
have a mound of earth 4 ft. base, 2 ft. high W.
of cor.

Land rolling.
Soil sandy 2nd rate.
No timber

North, bet. sec. 19 and 24,
Over rolling sandy land through sage and greasewood
brush undergrowth and bunch grass.

40.00 Set an iron post, 3 ft. long 1 1/2 in. in diam. 26 in. in
the ground for 1/4 sec. cor. marked on brass cap 1/4 S
24 on W. half and S 19 on E half.

Dig pits 18 x 18 x 12 in. N and S. of post 3 ft. dia. and
have a mound of earth 3 1/2 ft. base, 1 1/2 ft. high W.
of cor.

59.50 Old road bear E and W.

60.50 Road from Nuba to Oraibi Ariz bear N.W. and S.E.

64.50 Leave undergrowth bear E and W. Enter cultivated land
bear E 1/4 ch. and W. 3 ch. dia.

West boundary of T₂₉N, R₁₅E.

Chains

9

68.00 Rear Cultivated land bear E 15 chs and W. 5 chs
dist. Enter sage and greasewood bush undergrowth
bear E and W.

69.25 Dry sand wash 40 lbs, wide 3 ft. deep across NW.

80.00 Set an iron post 3 ft. long 3 ins. in diam., 24 ins. in
the ground for cor. of secs 13, 18, 19 and 24 marked out
bear Cap T₂₉N, on N half, T₁₄E S 13 in NW, T₁₄E S 18 in NE, S 19 in SE, and S 24 in SW quadrant.
Dig pits 18x18x12 ins. in each sec. 5 1/2 ft. dist.
and raise a mound of earth 4 ft. base, 2 ft. high
W. of cor.
Land rolling and level.
Soil sandy 2nd rate.
November

North, Secs 13 and 18,

Over level sandy land, through sage and greasewood
bush undergrowth and bunch grass

1.00 Rear undergrowth bear E and W, Enter cultivated
land bear E 4 chs. and W. 3 chs.

5.00 Rear Cultivated land bear E 4 chs. and W. 3 chs dist
Enter sage and greasewood bush undergrowth bear
E and W.

40.00 Set an iron post 3 ft. long 1 1/2 in diam 26 ins. in
the ground for 4 sec cor. marked out bear Cap.
1/4 S 13 on W. half and S 18 on E. half.
Dig pits 18x18x12 ins. N. and S. of post. 3 ft. dist.
and raise a mound of earth 3 1/2 ft. base, 1 1/2 ft.
high W. of cor

80.00 Set an iron post 3 ft. long 3 ins in diam, 24
ins. in the ground for cor. of secs. 7, 12, 13 and
18, marked out bear Cap. T₂₉N on N half
R₁₄E S 12 in NW, R₁₅E S 7 in NE, S 18 in SE and
S 13 in SW quadrant.

Dig pits 18x18x12 ins. in each sec. 5 1/2 ft dist and
raise a mound of earth 4 ft. base, 2 ft. high W.
of cor.
Land level.
Soil sandy 2nd and 3rd rate.
November

NOTE: On this or. Dash off, 13° 30' N, on the decl. arc and at 11:51 noon observed the sun on the meridian the resulting latitude being 35° 55' N.

North, 1/4 sec., 7 and 12,
 Over level sandy land through sage and greasewood bush
 undergrowth and bunch grass
 40.00 Set an iron post, 3 ft. long 1 in. in diam. 26 in. in
 the ground for 1/4 sec. cor. marked on brass cap 1/4 S
 12 on W half and 37 on E. half.
 Dig pits, 18x18x12 in. 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.
 65.75 Left bank of the De Nebito Wash 20 ft. high from N.E. and
 S.W.
 68.50 Right bank of the De Nebito Wash 20 ft. high. from N.E. and
 S.W.
 80.00 Set an iron post 3 ft. long 3 in. in diam., 24 in. in
 the ground for cor. of sec., 1, 6, 7 and 12, marked on
 brass cap T 29 N. on W half. T 14 E S 1 in N.W. T 15 E S 6
 in N.E. S 7 in S.E. and S 12 in S.W. quadrant,
 Dig pits 18x18x12 in. in each sec. 5 1/2 ft. dia, and
 raise a mound of earth 4 ft. base, 2 ft. high W. of cor.
 Layd level.
 Soil sandy 2nd rate.
 No timber

North, 1/4 sec., 1 and 6,
 Over level sandy land through sage and greasewood
 bush undergrowth and bunch grass.
 40.00 Set an iron post, 3 ft. long 1 in. in diam., 26 in. in
 the ground for 1/4 sec. cor. marked on brass cap 1/4 S.
 1 on W half and 56 on E. half.
 Dig pits 18x18x12 in. 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.
 80.00 Set an iron post, 3 ft. long 3 in. in diam. 24 in.
 in the ground for cor. of Twp. 29 and 30 N. R. 15
 14 and 15 E. marked on brass cap T 30 N. on W half.

Chains

West boundary of Pp 29 N, P 15 E.

BOOK 2550
11

T 29 N on Staff. R 14 E S 36 in N.W. R 15 E S 31
in N.E. R 15 E S 6 in S.E. and R 14 E. S 1 in S.W.
quadrants.

Dig pits 24x24x12 ins. on line N.E. and W. 4
ft. and S. of post, 8 ft. ditch, and raised mound
of earth 5 ft. base 2 1/2 ft. high S. of cor.

Land level.
Soil sandy 2nd rate.
No timber

April 26th 1909

North boundary of Tps 29 N, R 15 E.

chains

Survey commenced April 27th 1909 and executed with a W & A. E. Gurley 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 examined the adjustments of the transit and find them to be perfect and know from recent tests of the solar, by comparing its indications resulting from solar observations made during a.m. and p.m. hours with a meridian determined by observations on Polaris that the instrument is in satisfactory adjustment, therefore I begin at the cor. of Tps. 29 and 30 N, R 15 and 16 E, ^{herein before described} latitude 35° 56' 40" N, Longitude 110° 40' 48" W. which I established April 8th 1909. At 7^h 00^m a.m. ^{1. mt.} set off 35° 56' 1/2" N on the lat. arc, 13° 46' 1/2" on the decl. arc, and determine a meridian with the solar at the above mentioned Tps cor. Thence I run, West, on a random line, along the north boundary of Tps. 29 N, R 15 E., setting temp. 1/4 sec. and sec. cor. An interval of 40.00 chs. and at 479.14 chs. intersect the West boundary of Tps. at the cor. of Tps. 29 and 30 N, R 14 and 15 E., ^{herein before described} thence I run,

East, 6th sec. 6 and 31, marking and blazing the random line as a true line, Over level sandy land through sage and greasewood bush undergrowth, and bunch grass.

39.14 Set an iron post 3 ft long 1 in in diam. 2 in in the ground for 1/4 sec. cor. marked on brass cap 4 & 31 on N. half and 36 on S. half.

Dig pits 18x18x12 in. 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.

NOTE: - At this cor. set off 13° 49' 1/2" N on the decl. arc, and at noon observe the sun on the meridian and obtain on the lat. arc a reading of 35° 56' 1/2" N.

72.25 Intersect right bank of dry sand wash 20 ft high. bear N. and E.

73.75 Left bank of dry sand wash 20 ft high bear N and S.

79.14 Set an iron post 3 ft long 3 in in diam 2 1/2 in in the ground for cor. of sec. 5, 6, 31 and 32. marked on brass cap R 15 E on E half. T 30 N, S 32 in N.E. T 29 N S 5 in S.E. S 6 in S.W. and S 31 in N.W. quadrants.

Dig pits 18x18x12 in. in each sec. 5 1/2 ft. dist. and

North boundary of Tp 29 N, R 15 E

raise a mound of earth 4 ft. base, 2 ft. high W of cor
Land level.

Soil sandy 2nd and 3rd rate.

No timber

Cash; Feb. sec. 5 and 32,

Over level sandy bottom land, through sage and
greasewood bushes undergrowth 2 1/2 ft. high.

23.40 Right bank of the De Nebito Wash. 25 ft. high from N.E.
and S.W.

25.80 Left bank of the De Nebito Wash 25 lbs. high from 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 4 S 32 on
N. half and S 5 on S. half.

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

80.00 Set an iron post. 3 ft. long 3 ins. in diam. 24 ins. in
the ground for cor of sec. 4, 5, 32 and 33 marked
on brass cap R 15 E on E half. T 29 N, S 33 in N.E. T 29 N.
S 4 in S.E. S 5 in S.W. and S 32 in N.W. quadrants.

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

Soil sandy 2nd and 3rd rate.

No timber

Cash; Feb. sec. 4 and 33,

Ground gently over N.W. slope over rolling sandy land,
through sage and greasewood bush undergrowth and
scattered bunch and sacatone 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 brass cap.
4 S 33 on N. half, and S 4 on S. half.

Dig pits 18x18x12 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.

52.00 Top of low sand ridge from N.E. and S.W. thence
over N. slope.

75.00 Old road from N.E. and S.W.

North boundary of T₂₉N. R₁₅E.
 Schaud

80.00 Set an iron post 3 ft. long 3 in. in diam 24 in. in the ground for cor. of sec. 3, 4, 33 and 34, marked on brass cap. T₁₅E on E half. T₃₀N S 34 in N.E. T₂₉N. S 3 in S.E. S 4 in S.W. and S 33 in N.W. quadrant. Dig pits 18x18x12 in. in each. sec. 5 1/2 ft. dia, and raise a mound of earth 4 ft. base, 2 ft. high W. of cor.
 Land rolling.
 Soil sandy 2nd and 3rd rate.
 No timber.

Cash; Sec. 3 and 34,
 Over rolling sandy land through sage and greasewood bush undergrowth and bunch grass.
 40.00 Set an iron post 3 ft. long 1 in. in diam. 26 in. in the ground for 1/4 sec. cor. marked on brass cap. 1/4 S 34 on N. half and S. 3 on S. half.
 Dig pits 18x18x12 in. East W. of post. 3 ft. dia. and raise a mound of earth 3 1/2 ft. base, 1 1/2 ft. high N. of cor.

80.00 Set an iron post 3 ft. long 3 in. in diam, 24 in. in the ground for cor. of sec. 2, 3, 34 and 35 marked on brass cap. T₁₅E. on E half. T₃₀N. S 35 in N.E. T₂₉N. S 2 in S.E. S 3 in S.W. and S 34 in N.W. quadrant.
 Dig pits 18x18x12 in. in each. sec. 5 1/2 ft. dia. and raise a mound of earth 4 ft. base. 2 ft. high. W. of cor.
 Land rolling.
 Soil sandy 2nd and 3rd rate.
 No timber.

Cash; Sec. 2 and 35,
 Ascend gradually N.W. slope over rolling sandy land through sage and greasewood bush undergrowth and bunch grass.
 40.00 Set an iron post 3 ft. long 1 in. in diam. 26 in. 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 in. East W. of post 3 ft. dia. and

North boundary of T²⁹ N, R¹⁵ E.

Chain

raise a mound of earth 3 1/2 ft. base, 1 1/2 ft. high
W. of cor.
41.50 Top of low sand ridge base NW. and S.E. desc
over N.E. slope
50.00 Dry ravine 25 lbs. wide 2 ft. deep course NW.
asc.
80.00 Set an iron post. 3 ft. long 3 in. in diam. 24 ins.
in the ground for cor. of sec. 1, 2, 35 and 36.
marked on base Cop. R¹⁵ E on E half T²⁹ N, S³⁶
in N.E. T²⁹ N, S¹ in S.E. S² in S.W. and S³⁵ in NW.
quadrant.
Dig pits 18 X 18 X 12 ins in each sec. 5 1/2 ft. dia.
and raise a mound of earth 4 ft. base 2 ft. high.
W. of cor.
Land rolling.
Soil sandy 3rd rate.
No timber

Cash, Feb. sec. 1 and 36,
Ascend gradually S.W. slope over rolling sandy
land through scattering sage and greasewood
brush. Undergrowth and bunch grass
35.00 Enter scattering cedar timber base NW. and S.
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
Cop. S³⁶ on N. half and S¹ on S. half, from
which
A cedar 6 ins. in diam. base N⁷⁷ E 67 lbs dist.
marked 1/4 S³⁶ B.T.
A cedar 5 ins. in diam. base S¹³ E 150 lbs dist.
marked 1/4 S¹ B.T.
70.00 Top of sand ridge base NW. and S.E. desc.
74.50 Dry ravine course S. asc.
80.00 Intersect the cor. of T²⁹ N, R¹⁵ E
and 16 E, hereinbefore described.
Land rolling and hilly
Soil sandy 3rd rate.
Timber Cedar

April 27th 1909

Boundaries of Twp. 29 N, R 15 E
 Latitudes Departures and Closing Errors.

Line Designated	True Bearing	Distance	Latitudes		Departures	
			N	S	E	W
South Boundary (7 th Standard Parallel North)	West	480.00				480.00
West Boundary	North	480.00	480.00			
North Boundary	East	479.14			479.14	
East Boundary	South	480.00		480.00		
Convergence Totals			480.00	480.00	479.65	480.00
			480.00		479.65	480.00
		ERROR IN LAT.	0.00		ERROR IN DEP., 35	

General Description.

This township is mountainous in the eastern and southern parts, hilly in the central and rolling and level in the northern and western parts. While prairie land is found in the western and north western parts.

The township is poorly watered and poorly timbered, the soil of the bottom land along the De Nebets Wash. is a sandy loam, the soil of the prairie land is mostly 3rd rate but will produce crops without irrigation.

The township should be subdivided.

Widney E. Blough
 U.S. Examiner of Surveys

NOTE:- Final affidavits in book "Y" of Exterior.

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

BOOK 2550

LIST OF NAMES.

A list of the names of the individuals employed by Sidney E. Blount
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 East, West and North boundaries of Twp. No. 29 N. R. No. 15 E. of the Gila and Salt River Basins and meridians in the Territory of Arizona, showing the respective capacities in which they acted:

- Lafayette Jennings David White Compassman
Chainman.
- Chas. Shumway Chainman.
- Fred. L. Warner Moundman.
- Moundman.
- Arthur A. Beard Axman.
- Axman.
- Jay E. Jellick and Harry Lake May Flagman.

FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted _____
United States Deputy Surveyor, in surveying all

those parts or portions of the _____
_____ of the _____
_____ meridian _____ of _____, which are represented
in the foregoing field notes as having been surveyed by him and under his direction; and that said survey
has been in all respects, to the best of our knowledge and belief, well and faithfully surveyed, and the
corner monuments established, according to the instructions furnished by the United States Surveyor
General for _____

EXHIBIT "Y"
BOOK

- Chainman.
- Chainman.
- Moundman.
- Moundman.
- Axman.
- Axman.
- Flagman.

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



EXAMINER OF SURVEYS
FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

I, Sidney E. Blout, United States ^{Examiner of Surveys} ~~Deputy Surveyor~~, do solemnly swear that, in pursuance of ^{Special Instructions} ~~a contract~~ received from the Commissioner of the ~~United States Surveyor General for Land Office~~, bearing date of the 2nd day of Oct. 1907 and 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 ^{Commissioner of the} ~~United States Surveyor General for Land Office~~, the Manual of Surveying Instructions, and the laws of the United States, surveyed all those parts or portions of the

East, West and North boundaries of
Township No 29 North, Range No 15 East

Base & Meridian, in the Territory of Arizona of the Gila & Salt River

foregoing field notes as having been surveyed by me, and under my direction; and I do further solemnly swear that all the corners of said survey have been established and perpetuated in strict accordance with the Manual of Surveying Instructions, and the special written instructions of the ^{Commissioner of the} ~~United States Surveyor General for Land Office~~ and in the specific manner described in the field notes, and that the foregoing are the original field notes of such survey.

Subscribed by Sidney E. Blout, and sworn to before me }
this _____ day of _____, 190

See _____
United States Deputy Surveyor.
Examiner of Surveys.

APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Phoenix Arizona APR 25, 1904

The foregoing field notes of the survey of the

East, West and North boundaries of

Township No 29 North, Range No 15 East of the
Gila and Salt River Base & Meridian, Arizona.

executed by Sidney E. Blout - U.S. Examiner of Surveys
under ^{Special Instructions from the Commissioner of the General Land Office} ~~his contract No.~~, dated October 2, 1907 and May 15, 1908, having been critically examined, and the necessary corrections and explanations made, the said field notes, and the surveys they describe, are hereby approved.

Frank Lygall
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.