

Exterior
BOOK "AQ"

BOOK 2570
2570

FIELD NOTES

OF THE SURVEY OF THE

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

Of the Gila and Salt River Base and Meridian,

in the Territory of Arizona

EXECUTED
AS SURVEYED BY

San L. White, U.S. Practitioner, ~~United States Deputy Surveyor,~~

Special Instructions from the Commissioner of the General Land Office

Under ~~his~~ Contract No. _____, dated Dec. 2nd 1907 and May 15th 1908

Survey commenced September 26th _____, 1910

Survey completed September 28th _____, 1910

NAMES AND DUTIES OF ASSISTANTS.

BOOK 2570

<i>T. Y. White</i>	<i>Chairman</i>
<i>Oscar W. Fetters</i>	<i>Chairman</i>
<i>Ralph C. Sampson</i>	<i>Mourndman</i>
<i>George B. Seig</i>	<i>Axman</i>
<i>Nelson Polacca</i>	<i>Axman</i>
<i>William R. Carson</i>	<i>Flagman</i>

BOOK 2570

INDEX DIAGRAM.

Township *29 N.*, Range *14 E.*

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PRELIMINARY OATHS OF ASSISTANTS.

WE, T. Y. White and Oscar W. Fetters
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

W. and N. Bedrias of Tp 29 N. R. 17 E of the G. & S. R. Base & Mer., Arizona.
T. Y. White, Chainman.
Oscar W. Fetters, Chainman.

Subscribed and sworn to before me this 26th
day of Sept., 1910



Van L. White
U.S. Transitman

I, Ralph C. Sampson and
do solemnly swear that ~~we~~ will well and truly perform the duties of moundman in the establishment of corners, according to the instructions given ~~me~~ to the best of ~~my~~ skill and ability, in the survey of

W. and N. Bedrias of Tp 29 N. R. 17 E of the G. & S. R. Base & Mer. Arizona
Ralph C. Sampson, Moundman.

Subscribed and sworn to before me this 26th
day of Sept., 1910



Van L. White
U.S. Transitman

WE, George B. Seig and Nelson Polacca
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

W. and N. Bedrias of Tp 29 N. R. 17 E of the G. & S. R. Base & Mer. Arizona
George B. Seig, Axman.
Nelson Polacca, Axman.

Subscribed and sworn to before me this 26th
day of Sept., 1910



Van L. White
U.S. Transitman

I, William R. Carson, 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 W. and N. Bedrias of Tp 29 N. R. 17 E of the G. & S. R. Base & Mer., Arizona.

William R Carson, Flagman.

Subscribed and sworn to before me this 26th
day of Sept., 1910



Van L. White
U.S. Transitman

Survey commenced September 26th 1910, and executed with a Young & Sons' light mountain transit No 10 with a Smith solar attachment, the horizontal limb being 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, 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 established by observations on Polaris. Proceed as follows.

On my camp which is located near the S.E. cor. of Twp 29 N. R 13 and 14 E., Latitude $35^{\circ} 51' 30''$ N., Longitude $110^{\circ} 53' 38''$ W. At $3^h 52^m$ p.m. l.m.l. Det. off. $35^{\circ} 51\frac{1}{2}'$ N. on the lab. arc. $1^{\circ} 09\frac{1}{2}'$ S. on the decl. arc, and determine a meridian with the solar, and mark a point thereof by a tack driven in a stake set in the ground 5.00 Chs. N. of my instrument.

At $7^h 13^m$ p.m. l.m.l. by my watch which is correct local mean time observe Polaris at Eastern elongation in accordance with the instructions in the Manual and mark the direction thus determined by a tack driven in a stake set in the ground 5.00 Chs. N. of my instrument.

September 26th 1910

September 27th 1910 At $7^h 00^m$ a.m. l.m.l. Lay off the azimuth of Polaris $1^{\circ} 27'$ to the west and mark the meridian thus determined by a tack driven in the stake set last evening, on which the meridian falls .5 in E. of the meridian established by the solar observation. At $7^h 22^m$ a.m. l.m.l. Det. off. $35^{\circ} 51\frac{1}{2}'$ N. on the lab. arc, $1^{\circ} 24'$ S. on the decl. arc, and determine a meridian with the solar, and mark a point thereof by a tack driven in the stake already set 5.06 Chs. N. of my instrument. This point

Chain

West boundary of Twp 29 N. R. 14 E.

fallv., 11 ins, East. of the point established by the Polaris observation,

The solar apparatus by p.m. and a.m. observations defines positions for meridians respectively about 0'26" West. and 0'05" East of the meridian established by the Polaris observation therefore conclude that the instrument is in satisfactory adjustment.

Begin at the Stand. Corner of Twp. 29 N., R. 13 and 14 E. which I assisted to establish. January 11th 1910, as ^{described in Standard Book "K"} Latitude 35° 51' 28" N. Longitude 110° 53' 38" W.

At 7^h 52^m a.m. l.m.t. Sun off 35° 51½' N. on the hor. arc 1° 25' S. on the decl. arc and determine a meridian with the solar, then proceed

North, to sec. 31 and 36,

Around S.E. slope over rolling sandy land through sage and greasewood brush 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 cor. marked on brass Cap. 1/4 S 36 on W. half. and S 31 on E. half.

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

47.50 Top of sand ridge bears N.E. and S.W. dir. Leave rolling land bears N.E. and S.W. Enter hilly land.

71.30 Prekharus course S.W. arc.

79.56 Top of ridge bears N.E. and S.W. dir.

80.00 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 brass Cap. T 29 N. in N. half R 13 E. S 25 in N.W. R 14 E. S 30 in N.E. S 31 in S.E. and S 36 in S.W. quadrant.

Raise a mound of stone 2 ft. base 1½ ft. high W. of cor. Pits impracticable Land rolling and hilly. Soil sandy 3rd rate. No timber

North, to sec. 25 and 30,

Chain

Weak boundary of N^o 29 N., R14 E.

- Descent N.W. slope over hilly sandy land through sage and greasewood brush undergrowth and much grass
- 1.15 Dry ravine course S.W. are. steeply.
- 8.95 Top of sand ridge bears N60° E. and S60° W. desc.
- 31.70 Dry ravine course W. are.
- 36.85 Top of ridge bears N.E. and S.W. desc.
- 39.85 Dry rocky ravine course S.W. are
- 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 brass cap by S 25 on W half, and S 30 on E half. Place a mound of stone 2 ft. base $1\frac{1}{2}$ ft high. W. of cor. Pits impracticable.
- 57.20 Top of arched br S. edge of mesa bears N25° E and S25° W. bears hilly land bears N.E. and S.W. Enter rolling sandy land and scattering cedar timber bears N.E. and S.W.
- 80.00 Set an iron post 3 ft. long, 3 ins. in diam. 24 ins. in the ground for cor. of secs. 19, 24, 25, and 30 marked on brass cap T 29 N. in N. half. R13 E. S 24 in N.W. R14 E, S 19 in N.E. S 30 in S.E. and S 25 in S.W. qua drain. from which. A cedar 4 ins. in diam. bears N62 $\frac{3}{4}$ ° E 86 lbs. dish, marked T 29 N, R14 E, S 19 B.T. A cedar 10 ins. in diam. bears S 24° E 84 lbs. dish marked T 29 N, R14 E, S 30 B.T. A cedar 7 ins. in diam. bears S 38 $\frac{3}{4}$ ° W 87 lbs. dish, marked T 29 N, R13 E, S 25 B.T. and A cedar 6 ins. in diam. bears N 35° W 189 lbs. dish marked T 29 N, R13 E, S 24 B.T.
- Land rolling and hilly.
Soil sandy land stony 3rd and 4th rate.
Timber Cedar

North, bet. secs. 19 and 24,

Over rolling sandy mesa land through scattering cedar and furrow pine timber and sage brush undergrowth

- 14.00 Leave timber bears N.E. and S.W.
- 16.50 Begin gradual descent over N.W. 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 brass cap. $\frac{1}{4}$ S 24
on W. half and S 19 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.
78.00 Center scattering cedar timber bears N.E. and S.W.
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
on brass cap T 29 N, in N. half. R 13 E. S 13 in N.W.
R 14 E. S 18 in N.E., S 19 in S.E. and S 24 in S.W. quadrant
from which.
A cedar 8 ins. in diam. bears $N 54\frac{1}{2}^{\circ} E 73$ lbs. dist.
marked T 29 N, R 14 E. S 18 B.T.
A cedar 6 ins. in diam. bears $S 45\frac{3}{4}^{\circ} E 180$ lbs. dist.
marked T 29 N, R 14 E. S 19 B.T.
A cedar 6 ins. in diam. bears $S 79\frac{1}{2}^{\circ} W 26$ lbs.
dist. marked T 29 N, R 13 E. S 24 B.T. and
A cedar 7 ins. in diam. bears $N 16^{\circ} W 15$ lbs. dist.
marked T 29 N, R 13 E. S 13 B.T.
Land rolling.
Soil sandy 3rd rate.
Timber Cedar and juniper fine

North, Sec. 13 and 18;
Over rolling sandy land through scattering cedar
timber and sage brush undergrowth
10.00 Road from Ora's Arizona to Nuba Arizona bears
 $N 30^{\circ} W$. and $S 30^{\circ} E$. Near timber bears $N 30^{\circ} W$. and
 $S 30^{\circ} E$.
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 brass cap.
 $\frac{1}{4}$ S 13 on W. half and S 18 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.
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 on brass cap. T 29 N, in N. half, R 13 E.
S 12 in N.W., R 14 E 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. dist
and raise a mound of earth 7 ft. base 2 ft. high. W

West boundary of Twp 29 N, R 14 E.

Chains

of cor.
Land rolling.
Soil sandy 3rd rate.
Timber Cedar

NOTE: At this cor. I set off 1°30' S. on the decl. arc and at noon observed the sun on the meridian and obtain a reading of 36°55' N. on the lab. arc.

North h. sec. 7 and 12.
Over rolling sandy mesa land through scattering sage and greasewood bush undergrowth and bunch grass

Chains

22.00 Enter scattering cedar timber 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 12 on W. half and S 7 on E. half from which a cedar 5 ins. in diam. bears N 38° E. 29 lbs. dish marked 1/4 S 7 B.T. and

A cedar 6 ins. in diam. bears S 44 1/2° W 26 lbs. dish, marked 1/4 S 12 B.T.

44.00 Top of descent in depression bears N.E. and S.W. Leave rolling land bears N.E. and S.W., Enter stony hilly land. asc. S.E. slope.

57.75 Top of rocky ridge bears N.E. and S.W. desc.

70.80 Dry ravine 10 lbs. wide course N 30° W. asc.

73.50 Top of ridge bears E and W. desc. Leave timber bears E. and W.

78.20 Dry ravine course N 35° E. asc.

80.00 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 T 29 N. in N. half, R 14 E. S 1 in N.W., R 14 E. S 6 in N.E., S 7 in S.E. and S 12 in S.W. quadrant

Raise a mound of stone 2 ft. base, 1 1/2 ft. high. W. of cor. Gate impracticable
Land rolling and hilly.
Soil sandy and stony 3rd and 4th rate.
Timber Cedar

West boundary of T₂₉N, R₁₄E.

- Worth, beh. sec. 1 and 6,
 ascend S.E. slope over stony hilly land through sage
 and greasewood brush & undergrowth.
- 12.75 Top of sand ridge bears N.E. and S.W. dir.
- 14.00 Enter scattering cedar timber bears N.E. and S.W.
- 31.70 Begin abrupt ascent over sand stone bluffs into
 Canyon, Cedar timber bears E and W.
- 38.00 Dry canal 70 lbs. wide in bottom of Canyon
 course wash. are.
- 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 brass
 cap. T₃₁ on W. half and S₆ on E. half.
 Raise a mound of stone 2 ft. base, $\frac{1}{2}$ ft. high W.
 of cor. Pits impracticable.
- 41.90 Top of steep ascent on N. side of Canyon. thence
 over broken stony land.
- 42.00 Enter scattering cedar timber bears E and W.
- 80.00 Set an iron post 3 ft. long 3 in. in diam. 24 ins.
 in the ground for cor. of T₂₉N, R₁₃E
 and 14 E., marked on brass cap. T₃₀N. in N.
 half and T₂₉N. in S. half, R₁₃E. S₃₆ in N.W.
 R₁₄E S₃₁ in N.E., R₁₄E. S₆ in S.E. and R₁₃E. S₁
 in S.W. quadrants from which.
- A cedar 4 ins. in diam. bears N $25\frac{1}{4}$ °E 41 lbs. dist.
 marked T₃₀N, R₁₄E. S₃₁ B.T.
- A cedar 14 ins. in diam. bears S $72\frac{1}{2}$ °E 126 lbs. dist.
 marked T₂₉N, R₁₄E. S₆ B.T.
- A cedar 18 ins. in diam. bears S 53 °W 143 lbs. dist.
 marked T₂₉N, R₁₃E. S₁ B.T. and
- A cedar 16 ins. in diam. bears N 44 °W 256 lbs.
 dist. marked T₃₀N, R₁₃E. S₃₆ B.T.
- Land hilly and broken.
 Soil sandy and stony 3rd and 4th rate.
 Number Cedar

September 27th 1910.

North boundary of Twp. 29 N. R. 14 E.

Chain

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Survey commenced September 28th 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 examined 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 determined by observations on Polaris, that the instrument is in satisfactory adjustment.

For last complete test of the instrument see field notes of the survey of the East boundary of Twp. 29 N. R. 13 E. on page 1 of this book.

I begin at the Cor. of Twp. 29 and 30 N., R. 14 and 15 E. established by Sidney E. Burt, April 26, 1909 which is an iron post 3 ins. in diam., 12 ins. above ground, firmly set, marked T 30 N. in N. half, T 29 N. in S. half, R. 14 E. S. 36 in N.W. R. 15 E. S. 31 in N.E. R. 15 E.

36 in. S.E. and R. 14 E. S. 1 in S.W. quadrant, with pile N., E., & W., and mound of earth S. of Cor. Lat. $35^{\circ}56'41''$ N. Long. $110^{\circ}47'13''$ W.

At 7^h 21^m a.m. I set off $35^{\circ}56\frac{1}{2}'$ N. on the lat. arc, $1^{\circ}47'$ S. on the decl. arc and determined a meridian with the solar, thence I run,

West, on a random line, along the N. lobby of Twp. 29 N. R. 14 E., setting temp. $\frac{1}{4}$ sec. and sec. cor. at intervals of 40.00 Chs. and at 479.62 Chs. intersect N. and S. line 48 lbs. N. of the Cor. of Twp. 29 and 30 N. R. 13 and 14 E. which I established September 27th 1910 as hereinbefore described.

The falling answers to a correction of $0^{\circ}03'$, on 8 lbs. S. per mill counting from the N.E. Cor. of the Twp.; therefore I run

N. $89^{\circ}57'$ E., bet. sec. 6 and 31, marking and blazing the true line.

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

36.60 Top of sand ridge toward N. and S. desc. E. slope.

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

North boundary of Tp 29N, R14 E.

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 ins. E and W of post 3 ft. dist. and
raise a mound of earth $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high N.
of cor.

72.77 Road from Oraibi Arizona to Nuba Arizona bears
 $N 20^{\circ} E$ and $S 20^{\circ} W$. Enter scattering cedar timber
bears $N 20^{\circ} E$ and $S 20^{\circ} W$

79.62 Set an iron post 3 ft. long 3 ins. in diam. 24 ins. in
the ground for cor. of secs. 15, 6, 31, and 32, marked on
brass cap. R 14 E. in 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. quadrant.
from which.

A cedar 25 ins. in diam. bears $N 80^{\circ} E$. 141 lbs. dist. marked
T 30 N, R 14 E, S 32 B.T. and

A cedar 15 ins. in diam, bears $S 28\frac{1}{2}^{\circ} E$ 75 lbs. dist
marked T 29 N, R 14 E, S 5 B.T. No other trees available
Dig pits 24x24x12 ins in each sec. N.W. and S.W.
of post $5\frac{1}{2}$ ft. dist. and raise a mound of earth 4 ft.
base 2 ft. high W. of cor.

Land rolling.

Soil sandy 3rd rate.

Timber Cedar.

$N 89^{\circ} 57' E$, bet. sec 5 and 32,

Descend N.E. slope over rolling sandy land through
scattering cedar timber and sage bush undergrowth
and bunch grass.

.77 Dry ravine course N.E. asc., leave rolling land bears
 $N E$ and $S W$. Enter rolling sand hills.

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

12.00 Dry ravine 20 lbs. wide course north asc.

37.60 Top of divide between the Monocopia and DeNubato
Washes. bears $N 70^{\circ} E$ and $S 70^{\circ} W$, desc over S.E.
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 $\frac{1}{4}$ S 32 on N. half and
S 5 on S. half; from which.

A cedar 12 ins. in diam bears $N 34^{\circ} W$ 147 lbs. dist.
marked $\frac{1}{4}$ S 32 B.T. and.

A cedar 14 ins. in diam bears $S 88^{\circ} E$ 47 lbs. dist marked

- 1/4 S 5 P.T.
- 61.95 Road from Oraibi Arizona to Muba Arizona bears N. and S.
- 6410 E. edge of mesa bears N. and S. descend steeply over E. slope. Round timber bears N. and S.
- 75.00 Floor of descent in depression bears N. and S. drains to the South. acc.
- 79.25 Top of clay ridge bears N. and S. desc.
- 80.00 Set an iron post 3 ft. long 3 in. in diam. 24 in. in the ground for cor. of sec. 4, 5, 32, and 33. marked on brass Cop, R 14 E. in E. half, T 30 N, S 33 in N.E., T 29 N, S 4 in S.E., S 5 in S.W. and S 32 in NW quadrant.
- Dig pits 18x18x12 in. in each sec. 5 1/2 ft. dist. and raise a mound of earth 4 ft. base, 2 ft. high W. of Cor.
- Land hilly.
- Soil sandy and stony 3rd and 4th rate.
- White Cedar.

- N. 89° 57' E., Feb. Secs. 4 and 33,
- Descend N.E. slope over hilly land, through scattering sage brush undergrowth
- 2,40 Dry ravine 20 ft. below cor. Course S 30° E. acc.
- 5.25 Top of ridge bears N.W. and S.E. desc. N.E. slope.
- 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 Cop 1/4 S 33 on N. half and S 4 on S half.
- Dig pits 18x18x12 in. East 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.
- 60.10 Road from Oraibi Arizona to Muba Arizona bears N 60° W. and S 60° E. in depression N.W. and S.E. drains S.E. thence along S.E. slope.
- 80.00 Set an iron post 3 ft. long 3 in. in diam. 24 in. in the ground for cor. of Secs. 34, 33, and 34, marked on brass Cop R 14 E in E. half, T 30 N, S 34 in N.E., T 29 N, S 3 in S.E., S 4 in S.W. and S 33 in NW quadrant.
- Dig pits 18x18x12 in. in each sec. 5 1/2 ft. dist. and raise a mound of earth 4 ft. base, 2 ft. high W. of Cor.

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Land hilly.
Soil sandy and clayey. 3rd and 4th rate.
No timber.

N 87° 57' E, bet. sec. 3 and 34,

Descend S.E. slope over sandy land through sage
brush 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 brass cap 1/4 S
34 on N. half and S 3 on S half

Dig pits 18x18x12 ins. E. and 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.

42.55 Dry ravine 25 lbs. wide 2 ft. deep course S 45° E. and

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

75.25 Road bears N 15° E. and S 15° W. leads to water hole.

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 R14E. in E. half, T 29N, S 35 in N.E.

T 29N, 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. dia. and
raise a mound of earth 4 ft. base, 2 ft. high. W. of
cor.

Land rolling and hilly.

Soil sandy and clayey 3rd rate.

No timber

N 89° 57' E, bet. sec. 2 and 35,

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

34.80 Road to Tuba Arizona bears N 18° W. and
S 18° E.

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

Dig pits 18x18x12 ins. E. and 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 ins. in diam. 24 ins. in

North boundary of T 29 N, R 14 E.

Chain

the ground for cor. of sec. 1, 2, 35 and 36, marked out brass cap. T 29 N, R 14 E. in E. half. T 30 N, S 36 in N.E. T 29 N, S 1 in S.E. S 2 in S.W. and S 35 in N.W. quadrants

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 3rd rate.
No timber

N 89° 57' E, bet. sec. 1 and 36;

Over rolling sandy S. slope through sage and greasewood brush undergrowth and bunch grass.
40.00 Set an iron fork 3 ft. long 1 in. in diam 26 in. in the ground for 1/4 sec. cor. marked out brass cap. 1/4 S 36 on N. half and S 1 on S half.

Dig pits 18x18x12 in. E and W. of fork 3 ft. dia. and raise a mound of earth 3 1/2 ft. base 1 1/2 ft. high N. of cor.

80.00 Intersect the cor. of T 29 and 30 N, R 14 and 15 E, described in Exterior Book "W."

Land rolling.
Soil sandy 3rd rate.
No timber

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

September 28th 1910

Boundaries of T 29 N, R 14 E.
Latitudes departed and Closing errors.

Line Designated	True Bearing	Distance	Latitudes		Departures	
			N	S	E	W
South Boundary (T 29 N Parallel North)	West	480.00				480.00
West Boundary	North	480.00	480.00			
North Boundary	N 89° 57' E	479.62	0.42		479.62	
East Boundary	South	480.00		480.00		
Convergence					.51	
TOTALS			480.42	480.00	480.13	480.00
			480.00		480.00	480.00
		Error in lat.	0.42			
					Error in dep.	0.13

General Description

This township is rough and hilly in the western and north western parts, rolling in the interior and nearly level in the south eastern part.

Nearly the entire township can be classed as prairie land.

The township is poorly watered and poorly timbered. The soil of the bottom land along the De Nebets Wash is a sandy loam capable of producing good crops.

The township should be subdivided.

September 28th 1910.

Van L. White
U.S. Meas. itman

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

LIST OF NAMES.

A list of the names of the individuals employed by Van L. White
U.S. Transitman, ~~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 Ward N.
Bedrys Tp. 29 N. R 17 E. of the G. & S. R. Base & Mer, Arizona
showing the respective capacities in which they acted:

- T. Y. White, Chainman.
- Oscar W. Fetter, Chainman.
- Ralph C. Sampson, Moundman.
- George B. Seig, Axman.
- Nelson Polacco, Axman.
- William R. Carson, Flagman.

FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted Van L. White
U.S. Transitman, ~~United States Deputy Surveyor~~, in surveying all
those parts or portions of the Ward N. Bedrys Tp 29 N. R.
17 E.

of the Sila and
Salt River Base and Meridian, Territory of Arizona, 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~~ ^{executed}, and the
corner monuments established, according to the instructions furnished by the ~~United States Surveyor~~

~~General for~~ Commissioner of the General Land Office

- T. Y. White, Chainman.
- Oscar W. Fetter, Chainman.
- Ralph C. Sampson, Moundman.
- George B. Seig, Axman.
- Nelson Polacco, Axman.
- William R. Carson, Flagman.

Subscribed and sworn to before me this 13th
day of Oct, 1910

Van L. White
U.S. Transitman



TRANSITMAN
FINAL OATH OF UNITED STATES DEPUTY SURVEYOR

I, Van L. White, ^{Transitman} United States Deputy Surveyor, do solemnly swear that, in pursuance of ^{Special Instructions} ~~contract~~ received from ~~the Commissioner of 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 Surveyor~~ ^{Commissioner} of the ~~General Land Office~~, the Manual of Surveying Instructions, and the laws of the United States, surveyed all those parts or portions of the West & North Edges of Township No. 29 North of Range No. 14 East

of the Gila and Salt River Base and Meridian, in the Territory of Arizona, which are represented in the 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 ~~United States Surveyor~~ ^{Commissioner} of the ~~General Land Office~~ and in the specific manner described in the field notes, and that the foregoing are the original field notes of such survey.

Van L. White
~~United States Deputy Surveyor~~
Transitman

Subscribed by said Van L. White, and sworn to before me }
this 27th day of December, 1912.

Lytton R. Taylor
U.S. Commissioner
at Las Vegas, N.M.



APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Phoenix, Arizona, APR 25, 1914

The foregoing field notes of the survey of the

West & North boundaries of

Township No. 29 North, Range No. 14 East of the
Gila and Salt River Base and Meridian, Arizona.

executed by VAN. L. WHITE, U.S. Transitman, under Special Instructions from
executed by the Commissioner of the General Land Office
under 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 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.~~