

Standard  
BOOK A

2507

BOOK 2507

## FIELD NOTES

OF THE SURVEY OF THE

Fourth Guide Meridian East: through  
Townships 25 26 and 28 North between Ranges  
No. 16 and 17 East; and

Resurvey of same  
through Township 27 North  
and Resurvey of

6th Standard Parallel North thru part of Range 16 East

Of the Gila Salt River Basin and Meridian,

in the Territory of Arizona

EXECUTED  
AS SURVEYED BY

Widney E. Stout

Examiner of Surveys  
United States Deputy Surveyor,

Special Instructions from the Commissioner of the General Land Office  
Under his Contract No. , dated October 2<sup>nd</sup> 1907 and May 15<sup>th</sup> 1908

and Resurvey  
Survey commenced September 5<sup>th</sup> , 1908

and Resurvey  
Survey completed October 7<sup>th</sup> , 1908

NAMES AND DUTIES OF ASSISTANTS.

Harvey Lake May  
Fred L. Warner

Compassman  
Chairman

Van L. White

Chairman

Ralph A. Weirauch

Chairman

Walter A. Swoffer

Chairman

Henry Jennings

Moundman

Harry J. Harler

Moundman

Charles A. Dutton

Recorder

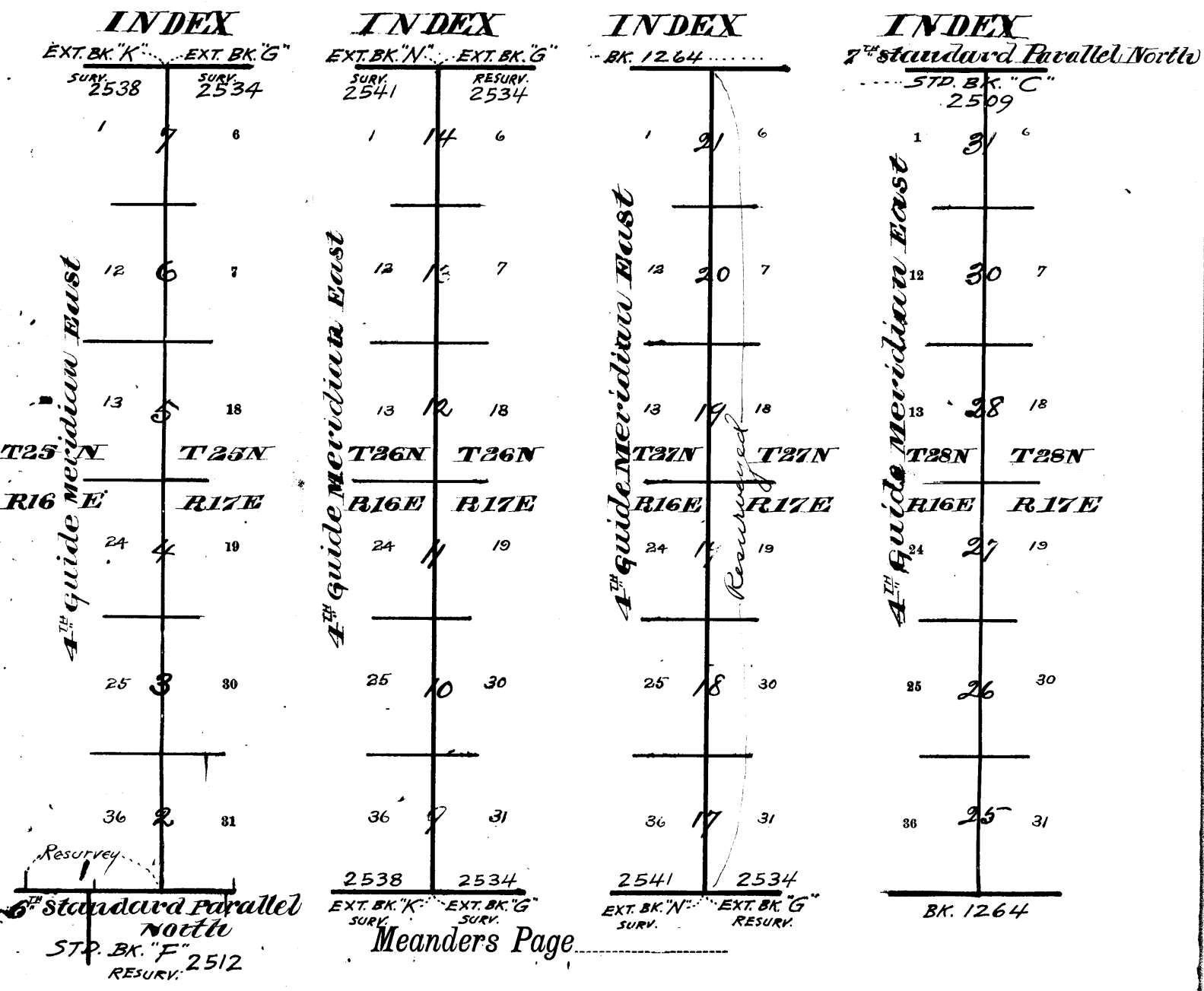
Robt E. Claborn

Wagoner

Chas L. Shumway

Wagoner

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INDEX DIAGRAM.



## PRELIMINARY OATHS OF ASSISTANTS.

WE, Fred L. Warner, Van L. White, Ralph P. Westraud, and Walter A. Suffer  
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 The Fourth Guide Meridian East through Townships No. 25, 26, and 28 North, and resurvey of same through Tp. 27 N., and resurvey of 6th Std. Parallel North through part of Range 16 East of the G. & S. R. Meridian, Arizona. Ralph P. Westraud and Walter A. Suffer, Chainmen.

Fred L. Warner and Van L. White, Chainmen.

Subscribed and sworn to before me this 4<sup>th</sup>  
day of September, 1908



Sidney E. Blouk  
U.S. Examiner of Surveys

WE, Henry Jennings and Harry J. Harsler  
do solemnly swear that we will well and truly perform the duties of moundmen in the establishment or re-establishment of corners, according to the instructions given us, to the best of our skill and ability, in the survey of The Fourth Guide Meridian East through Townships 25, 26, and 28 North, and resurvey of same through Tp. 27 N., and resurvey of 6th Std. Parallel N. through part of Range 16 East of the G. & S. R. Meridian, Arizona. Henry Jennings, Moundman.

Subscribed and sworn to before me this 4<sup>th</sup>  
day of September, 1908



Sidney E. Blouk  
U.S. Examiner of Surveys

WE, J. Charles A. Dutton and me  
do solemnly swear that we will well and truly perform the duties of axman in the establishment or re-establishment of corners and other duties, according to instructions given me to the best of our skill and ability, in the survey of Fourth Guide Meridian East, through Townships No. 25, 26, and 28 North, and resurvey of same through Tp. 27 N., and resurvey of 6th Std. Parallel North through part of Range 16 East of the G. & S. R. Meridian, Arizona. Charles A. Dutton, Axman.

Subscribed and sworn to before me this 4<sup>th</sup>  
day of September, 1908



Sidney E. Blouk  
U.S. Examiner of Surveys

WE, Robt. E. Clabauer and Charles L. Shumway do solemnly swear that we will well and truly perform the duties of flagman according to instructions given us to the best of our skill and ability, in the survey of Fourth Guide Meridian East through Townships No. 25, 26, and 28 North, and resurvey of same through Tp. 27 N., and resurvey of 6th Std. Parallel N. through part of Range 16 East of the G. & S. R. Meridian, Arizona. Charles L. Shumway, Flagman.

Subscribed and sworn to before me this 4<sup>th</sup>  
day of September, 1908



C. L. Shumway - Flagman  
Sidney E. Blouk  
U.S. Examiner of Surveys

Re-Survey commenced September 5<sup>th</sup> 1908 and executed with a Young & Sons. light-mountain transit No. 10 with a Smith solar attachment. The horizontal limb is provided with two double verniers placed opposite to each other reading to single minutes of arc, which is also the least count of the verniers of the latitude and declination arcs.

I examine the adjustments of the transit and find them to be perfect. and knowing from recent tests of the solar by a.m. and p.m. observations on a meridian determined by observations on Polaris. that the solar apparatus is in satisfactory adjustment, I proceed as follows.

In order to find the Standard Cor. of Tps 25 N. R's 16 and 17 E. I proceed to the Standard Cor. of Secs. 35 and 36. T. 25 N. R. 16 E. which is a malapais stone 8x7x6 ins above ground firmly set and marked and witnessed as described in the field notes furnished me by the Surveyor General. Latitude  $35^{\circ}30'35''$  N. Longitude  $110^{\circ}35'$  W

At this Cor. Det. off.  $35^{\circ}30\frac{1}{2}'$  N. on the lat. arc  $6^{\circ}44'$  N. on the decl. arc and at  $2^{\text{h}}00^{\text{m}}$  p.m. l.m.t. determine a meridian with the solar.

Thence I resurvey the 6<sup>th</sup> Standard Parallel North through <sup>part of</sup> R. 16 E.

39.76 East on the S. bdy. of sec. 36; on random line Fall 4 lbs N. of the Closing Corner of the Fourth Guide Meridian East, through Tps. 24 N. R's 16 and 17 E. which is a cottonwood post. 3 ft. long. 3 ins sq. marked and witnessed as described in the field notes furnished me by the Surveyor General; The pit and mound being nearly obliterated I re-establish the <sup>closing</sup> Cor. as follows.

Dig pits 30x24x12 ins. crosswise on line 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.

40.02 Fall  $4\frac{1}{2}$  lbs N. of the <sup>old</sup> stand  $\frac{1}{4}$  sec. Cor. which is a limestone 12x4x4 ins. above ground. nearly turned out of its bed. Pits and mound obliterated I re-establish this <sup>std.  $\frac{1}{4}$  sec.</sup> corner in the following manner Set the same stone 8 ins. in the ground. for stand  $\frac{1}{4}$

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Sec. Cor marked S.C.  $\frac{1}{4}$  on the N. face  
Dig pits 18x18x12 ins E and W. of stone 3 ft. dist  
and raise a mound of earth 3  $\frac{1}{2}$  ft. base 1  $\frac{1}{2}$  ft. high  
N. of cor. True course and dist. this  $\frac{1}{2}$  mile S. 89° 56' E. 40.02 chs.

From the above described std.  $\frac{1}{4}$  sec. cor, I run  
East on the S. line of Sec. 36 on random line  
40.04 Fall 5 lbs. N. of the <sup>std.</sup> Stand Cor. of Tps. 25 N. R. 16  
and 17 E. which is a Cottonwood post greatly decayed  
marks nearly obliterated, broken off at the  
surface of the ground and lying on a  
mound of earth. I make a very diligent and  
careful search in the ground south of the  
remains of the old earth mound and find  
the decayed end of the old cor. post. I then  
destroy all evidence of the old cor. and reestablish  
it in its original position as follows.

Set an iron post 3 ft. long 3 ins in diam 24 ins  
in the ground for Stand Cor. of Tps. 25 N. R. 16  
and 17 E. marked on brass Cap. T 25 N. on  
N. half., R 16 E S. 36 in N. W and R 17 E S 31 in N. E.  
quadrant.

Dig pits 30x24x12 ins crosswise on line E and  
W. 4 ft. and N. of post 8 ft. dist and raise a  
mound of earth 5 ft. base 2  $\frac{1}{2}$  ft. high N. of cor.  
True course and dist. of this  $\frac{1}{2}$  mile S. 89° 56' E. 40.04 chs.

At 8<sup>h</sup> 32<sup>m</sup> from <sup>lmt.</sup> by my watch which is  
correct local mean time I observe Polaris at eastern  
elongation in accordance with the instructions  
in the Manual, and mark the direction thus  
determined by a black drim in a stake set  
firmly in the ground 5 chs N. of the Stand Cor  
of Tps 25 N. R S 16 and 17 E. which I re established  
today, as above described.

Sept. 5 1908

Survey of 4th Guide Meridian East thru Tps. 25 N. bet. Ro. 16 and 17 E.  
September 6<sup>th</sup> 1908 At 7<sup>h</sup> 00<sup>m</sup> <sup>lmt.</sup> I lay off the  
azimuth of Polaris 1° 27' to the west, and mark  
the meridian thus determined by a nail  
drim in a stake 5 chs N. of the Cor. above described.  
From the <sup>re-established</sup> Stand Cor. of Tps. 25 N. Ro. 16 and 17 E. I run  
North, bet. Secs. 31 and 36.  
Ascend S.W. slope over rolling sandy land through

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sage brush and greasewood undergrowth  
Difference bet. measurements of 40.00 chs. by two sets  
of chainmen is 8 chs.; position of middle point  
By 1<sup>st</sup> set, 40.04 chs.

By 2<sup>nd</sup> set, 39.96 chs.; the mean of which is  
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 Cop. 4336  
on W. half and 331 on E. half.

Dig pits 18x18x12 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

Difference between measurements of 80.00 chs. by  
two sets of chainmen is 14 chs.; position of middle  
point

By 1<sup>st</sup> set, 80.07 chs.

By 2<sup>nd</sup> set, 79.93 chs.; the mean of which is  
80.00 Set an iron post 3 ft. long, 3 ins. in diam, 24 ins.  
in the ground for cor. of secs. 25, 30, 31 and 36.  
marked on brass Cop. T 25 N. on N. half.

R 16 E S 25 in N.W. R 17 E S 30 in N.E. S 31 in S.E. and  
336 in S.W. quadrant.

Dig pits 18x18x12 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. This cor. is situated at top of arc on Meridian N.E. & S.W.

Land rolling.

Soil sandy 2<sup>nd</sup> and 3<sup>rd</sup> rate

No timber

North bet. secs 25 and 30.

Along top of meadow rolling sandy land.  
through sage and greasewood brush and scattering  
patches of bunch grass.

Difference between measurements of 40.00 chs.  
by two sets of chainmen is 6 chs. position of middle pt.  
By 1<sup>st</sup> set, 40.03 chs.

By 2<sup>nd</sup> set, 39.97 chs.; the mean of which is  
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  
Cop. 43. 25 on W. half and 330 on E. half.

Dig pits 18x18x12 ins N and S. of post. 3 ft. dist,

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and raise a mound of earth  $3\frac{1}{2}$  ft. base  $1\frac{1}{2}$  ft. high.  
W. of cor

Difference between measurements of 80.00 chs by  
two sets of chainmen is. 4 chs.; position of middle pt.

By 1<sup>st</sup> set. 80.02 chs.

80.00 By 2<sup>nd</sup> set 79.98 chs.; the mean of which is  
Set an iron post. 3 ft. long 3 ins in diam. 24 ins in  
the ground for cor. of sec. 19, 24, 25 and 30.  
marked on base Cop. T 25 N. on N. half.

RIGES 24 in NW. RITES 19 in NE. S 30 in SE and  
S 25 in S.W. quadrant.

Raise a mound of stone 2 ft. base  $1\frac{1}{2}$  ft. high W.  
of cor. Pits impracticable.

Land rolling and hilly.

Soil sandy 3<sup>rd</sup> rate.

No timber

This cor is situated about 50 chs. from W. edge of  
Mesa

North bet. sec. 19 and 24

Over rolling mesa land through sage brush  
greasewood and bunch grass. undergrowth.

2.00 North edge of mesa base NE. and SW. leave  
rolling land base NE. and SW. desc. NW. slope  
over hilly land base NE. and SW.

12.00 Dry ravine at foot. of descent. Course SW. asc.

16.00 Top of ascent on south edge of mesa, base  
East W. leave hilly land base East W. enter  
rolling sandy land base East W.

Difference bet. measurements of 40.00 chs by  
two sets of chainmen is. 4 chs.; position of  
middle point

By 1<sup>st</sup> set. 40.02 chs.

40.00 By 2<sup>nd</sup> set. 39.98 chs.; the mean of which is  
Set an iron post. 3 ft. long. 1 in in diam. 26  
ins. in the ground for sec. cor. marked on  
base Cop. 14 S 24 on W half and S 19 on E half  
Dig pits 18x18x12 ins N and S. of post. 3 ft. dia.  
and raise a mound of earth  $3\frac{1}{2}$  ft. base  $1\frac{1}{2}$   
ft. high W. of cor

Difference bet. measurements of 80.00 Chs. by  
two sets of Chainmen is 4 chs.; position of middle  
point

By 1<sup>st</sup> Set. 80.02 Chs.

By 2<sup>nd</sup> Set. 77.98 Chs.; the mean of which is  
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 Brass Cop. T 25 N. on N. half.

R 16 E S. 13 in NW R 17 E. S. 18 in NE, S. 19 in SE and  
S. 24 in SW. go ahead

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

Land rolling and hilly

Soil sandy 3<sup>rd</sup> and 4<sup>th</sup> rate.

No timber

North bet. sec. 13 and 18

Over rolling sandy mesa land through  
sage brush greasewood and bunch grass  
undergrowth

Difference between measurements of 40.00 Chs  
by two sets of Chainmen is 2 chs.; position of  
middle point

By 1<sup>st</sup> Set. 40.01 Chs

By 2<sup>nd</sup> Set. 39.99 Chs.; the mean of which is  
40.00 Set an iron post. 3 ft. long. 1 in in diam. 26 ins.  
in the ground for 1/4 sec. Cor. mkd. on Brass Cop.  
1/4 S. 13 on W half and S. 18 on E half.

Dig pits 18x18x12 ins N and S. of post. 3 ft. deep.  
and raise a mound of earth 3 1/2 ft. base 1 1/2  
ft. high W. of Cor

Difference bet. measurements of 80.00 Chs by two  
sets of Chainmen is 4 chs.; position of middle  
point

By 1<sup>st</sup> Set. 80.02 Chs.

By 2<sup>nd</sup> Set. 79.98 Chs. the mean of which is  
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 on Brass Cop. T 25 N. on N. half

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R 16 E S 12 in NW. R 17 E 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 rolling.

Soil sandy 3<sup>rd</sup> rate

No timber

North bet. secs. 7 and 12.

Over rolling sandy mesa land through sage brush  
greasewood and bunch grass undulating.

Difference between measurements of 40.00 chs by  
two sets of chainmen is 4 chs.; position of middle pt.

By 1<sup>st</sup> Set 39.98 chs.

By 2<sup>nd</sup> Set 40.02 chs.; the mean of which is  
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. 143  
12 on W half. and 37 on E half

Dig pits 18x18x12 ins NW 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.

Difference bet. measurements of 80.00 chs by  
two sets of chainmen is 2 chs.; position of middle pt.

By 1<sup>st</sup> Set 80.01 chs.

By 2<sup>nd</sup> Set 79.99 chs.; the mean of which is  
80.00 Set an iron post. 3 ft. long. 2 in. in diam. 24 in  
in the ground for cor. of secs 1, 6, 7 and 12. marked  
on brass cap. T 25 N. on N. half. R 16 E S 1 in NW,  
R 17 E S 6 in NE. S 7 in SE. and S 12 in SW. 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 rolling.

Soil sandy 3<sup>rd</sup> rate

No timber

North Secs. 1 and 6,

Overrolling sandy mesa land, through sage  
brush greasewood and bunch grass undergrowth.  
Difference between measurements of 40.00 chs  
by two sets of chainmen is .2 chs.; position of  
middle point

By 1<sup>st</sup> Set. 40.01 chs.

By 2<sup>nd</sup> Set. 39.99 chs.; the mean of which is  
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 1 on W half. and 36 on E half.

Dig pits 18x18x12 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.

Difference between measurements of 80.00 chs.

By two sets of chainmen is .2 chs.; position of  
middle point

By 1<sup>st</sup> Set. 80.01 chs.

By 2<sup>nd</sup> Set. 79.99 chs.; the mean of which is  
80.00 Set an iron post. 3 ft. long, 3 in. <sup>24 in. in the ground</sup> in diam. for  
Cor of T<sub>25</sub> and 26 N, R<sub>16</sub> and 17 E. marked  
on brass cap. T 26 N. on N. half. T 25 N. on S half.  
R 16 E 336 in NW. R 17 E 331 in NE, 36 in S.E. and  
31 in SW. quadrant.

Dig pits. 24x24x12 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.

Land rolling

Soil sandy 3<sup>rd</sup> rate

No timber

September 6<sup>th</sup> 1908.

### General Description

Townships 25 N. Ranges 16 and 17 East. are generally  
rolling sand hills covered with sage brush greasewood  
brush and bunch grass, and are valuable only  
for grazing purposes.

Archie E. Blount  
U.S. Examiner of Surveys

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Survey Commenced September 6<sup>th</sup> 1908 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 began at the Cor. of Tps. 25 and 26 N. R's 16  
and 17 E. which I established Sept 6<sup>th</sup> 1908  
<sup>and hereinbefore described,</sup>  
Latitude  $35^{\circ} 35' 48''$  N. Longitude  $110^{\circ} 35'$  W.

At this Cor. At 8<sup>h</sup> 28<sup>m</sup> p.m. C. M. L. observed  
Polaris at eastern elongation in accordance  
with instructions in the Manual and mark  
a point in the direction thus determined by  
a nail driven in a stake set firmly in  
the ground 5 chs N. of the cor.

September 6<sup>th</sup> 1908

September 7<sup>th</sup> 1908 At 7<sup>h</sup> 30<sup>m</sup> a.m. <sup>l.m.t.</sup> I lay off the  
azimuth of Polaris  $1^{\circ} 27'$  to the west, and mark  
the Meridian thus determined by a tack  
driven in a stake set in the ground West  
of the point established last evening.

From the Tps. Cor. Tps. 25 and 26 N. R's 16 & 17 E. hereinbefore  
<sup>described,</sup> I run  
North 7<sup>th</sup> Secs. 31 and 36.

Descend gradually over N.W. slope, over rolling  
sandy land, through sage brush greasewood and  
tough grass undergrowth.

Difference between measurements of 4000 chs. by  
two sets of chainmen is 4 chs.; position of middle  
point.

By 1<sup>st</sup> set. 39.98 chs.

By 2<sup>nd</sup> set. 40.02 chs.; the mean of which is  
40.00 Set an iron post 3 ft. long, 1 in. in diam., 26 in. in  
the ground for 1/4 sec. cor. - used on brass cap 1/4 S 36  
on W half and S 31 on E half.

Dig pit to 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.

Difference between measurements of 80.00 chs.  
by two sets of chainmen is 2 chs. position

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of middle point.  
By 1<sup>st</sup> Set. 80.01 Ch.  
By 2<sup>nd</sup> Set. 79.99 Chs. the mean of which is  
80.00 Set an iron post 3 ft. long 3 ins. in diam. 24 ins.  
in the ground for. Rec. Secs. 25 30 31 and 36  
mkd. on brass Cop. T 26 N. on N. half.  
R 16 E. S 25 in NW R 17 E S 30 in NE. S 31 in S.E. and  
S 36 in S.W. quadrant.  
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.  
Soil sandy 3<sup>rd</sup> rate  
No timber

North br. Secs 25 and 30.  
Descend gradually over NW. slope over rolling  
sandy land through sage brush greasewood and  
lunch grass undergrowth  
35.00 Head of dry ravine Course NW. leave rolling land.  
bear NW and S.E. ascend S.W. slope over hilly land  
bear NW and S.E.  
Difference between measurements of 40.00 Chs by  
two sets of chainmen is 6 lbs., position of middle  
point  
By 1<sup>st</sup> set. 39.97 Chs.  
By 2<sup>nd</sup> Set. 40.03 Chs. the mean of which is  
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 Cop.  
1/4 S 25 on W half and S 30 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.  
48.35 Top of mound on S. edge of point of mesa bear  
NW. and S.E. leave hilly land bear NW. and S.E.  
Enter level land bear NW and S.E.  
56.40 North edge of point of mesa bear NW and S.E.  
leave level land bear NW and S.E. desc. N.E.  
slope over hilly land bear NW and S.E.  
72.00 Foot descent. Leave hilly land bear NW and S.E.

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76.00 Enter level bottom land bears NW. and SE.  
Dry bed of ravine comes NW.  
Difference between measurements of 80.00 chs.  
by two sets of chainmen is 4 chs., position of  
middle point.  
By 1<sup>st</sup> set 79.98 chs.  
By 2<sup>nd</sup> set 80.02 chs., the mean of which is  
80.00 Chain 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 26 N. on N. half.  
R16 E. S 24 in NW. R17 E S 19 in NE. S 30 in  
SE and S 25 in SW. quadrant.  
Dig pits 18x18x12 ins. in each sec. 5 1/2 ft. deep.  
and raise a mound of earth 4 ft. tall 2  
ft. high W of cor.  
Land level, rolling and hilly.  
Soil sandy 3<sup>rd</sup> rate.  
No timber. This cor is on N. side of narrow bottom.

22.00 North br. secs. 19 and 24.  
Ascend S. slope over low rolling sand hills  
through sage brush, greasewood and  
scattered bunch grass.  
22.00 Top of sand ridge bears NE. and SW. desc  
Difference between measurements of 40.00 chs  
by two sets of chainmen is 4 chs. position  
of middle point  
By 1<sup>st</sup> set 39.98 chs  
By 2<sup>nd</sup> set 40.02 chs. the mean of which is  
40.00 Chain iron post 3 ft. long, 1 in in diam  
26 ins. in the ground for 1/4 sec. cor. marked  
on brass cap. S 24 on W. half and S 19 on E  
half.  
Dig pits 18x18x12 ins N. and S. of post 3 ft.  
deep, and raise a mound of earth 3 1/2 ft.  
base 1 1/2 ft. high W of cor.  
65.00 Foot of descent in valley along the Placca  
Wash, leave hilly land bears NE. and  
SW. Enter level adobe bottom land bears  
NE. and SW.

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18.00 Intersect the left bank of the Placca Wash  
400 chs. wide 20 ft. deep bears NE and SW.  
80.00 The point for the cor. of secs 13, 18, 19 and 24  
falls in the Placca wash where natural  
causes would insure its destruction, therefore  
I continue my line

80.25 Dry bed of the Placca Wash course SW.

81.50 Right bank of the Placca Wash bears NE and  
SW.

Difference bet. measurements of 82.00 chs. by  
two sets of chainmen is 8 chs.; position of  
middle point

By 1<sup>st</sup> set 82.04 chs.

By 2<sup>nd</sup> set 81.96 chs.; the mean of which  
is

82.00 Set an iron post 3 ft. long 3 ins. in diam 24  
ins in the ground for witness cor. to the  
cor. of secs 13, 18, 19 and 24 which falls in  
the wash, marked on the brass cap. W.C. T26  
N. on N. half R 16 E S 13 in NW., R 17 E S 18 in  
NE. S 19 in SE. and S 24 in SW. quadrant  
Dig pits 18 x 18 x 12 ins NE. SE. SW. and NW.  
of post 5 1/2 ft. dia and raise a mound of  
earth 4 ft. base 2 ft. high W. of cor.  
Land level and hilly  
Soil sandy and adobe 3<sup>rd</sup> rate.  
No timber

North bet. secs 13 and 18. from true  
point for cor. of secs 13, 18, 19 and 24 in  
the Placca Wash

Over sandy bed of Wash.

1.00 Crend Right bank of Wash 10 ft. high.

1.50 Top of right bank bears NE and SW.  
Enter level adobe bottom land covered  
with sage and greasewood undergrowth  
3 ft. high.

2.00 Intersect the Witness cor. to cor. of secs  
13, 18, 19 and 24, heretofore described.

Difference between measurements of 40.00 chs

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

By 1<sup>st</sup> Set. 39.98 Chs.

By 2<sup>nd</sup> Set. 40.02 Chs. the mean of which is 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. 14 S 13 on W half. and 3 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.

Difference between measurements of 80.00 Chs. by two sets of chainmen is 6 lks., position of middle point

By 1<sup>st</sup> Set. 80.03 Chs.

By 2<sup>nd</sup> Set. 79.97 Chs.; the mean of which is 80.00

Set an iron post 3 ft. long 3 in in diam 24 ins. in the ground for cor. of sec 7, 12, 13 and 18. marked on brass Cap. T 26 N. on N. half. R 16 E S 12 in N.W. R 17 E S 7 in N.E. 3 18 in S.E. and 3 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 4 ft. base 2 ft high W of cor.

Land level.

Soil Adobe 3<sup>rd</sup> rate

No timber

North to sec 7 and 12.

Over level adobe bottom land through sage and greasewood brush and growth  
Difference between measurements of 40.00 Chs. by two sets of chainmen is 2 lks.

position of middle point

By 1<sup>st</sup> Set. 40.01 Chs.

By 2<sup>nd</sup> Set. 39.99 Chs. the mean of which is 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

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ow brass Cap.  $\frac{1}{4}$  S 12 on W. half and S 7 on E half.  
Dig pits 18x18x12 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.

64.00 A point 50 lks E. of stone reservoir.

64.15 A point 400 lks. E. of stone house, uninhabited

66.40 Ditch from Burro Spring to Reservoir course S.W.

68.70 A point 275 lks West. of Burro Spring.

68.75 A point 40 lks E. of stone house, uninhabited

69.60 A stone house on line. uninhabited

75.00 Leave Valley head N.E. and S.W. Ascend S.E. slope over hilly sandy land.

Difference between measurements of 80.00 chs. by two sets of chainmen is 2 lks., position of middle point.

By 1<sup>st</sup> Set. 80.01. chs.

By 2<sup>nd</sup> Set. 79.99 chs.; the mean of which is

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 26 N. on N. half., R 16 E 31 in N.W. R 17 E 36 in N.E. S 7 in S.E. S 12 in S.W. quadrant

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

Land level and rolling

Soil sandy and adobe 3<sup>rd</sup> and 4<sup>th</sup> rate.  
No timber

North Sec. 1 and 6.

Ascend S.E. slope over sand stone bluffs over hilly land.

7.50 Top of bluff 50 ft. above Cor. head N.E. and S.W. thence over low rolling sand hills.

Difference bet. measurements of 40.00 chs. by two sets of chainmen is 6 lks. position of middle point

By 1<sup>st</sup> Set. 39.97 chs.

By 2<sup>nd</sup> Set. 40.03 chs. the mean of which is .

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  
beass cop 1431 on W half and 36 on E half.  
Dig pits 18x18x12 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.

Difference between measurements of 80.00  
chs. by two sets of chainmen is 4 lks. position  
of middle point.

By 1<sup>st</sup> set. 79.98 Chs.

By 2<sup>nd</sup> set. 80.02 Chs. the mean of which  
is

80.00

Set an iron post. 3 ft. long 3 ins. in diam,  
24 ins in the ground <sup>re-established</sup> for cor. of Tps. 26 and 27  
or R's 16 and 17 E. marked on beass cop.  
T 27 N. on W half. and T 26 N. on S half. R 16 E  
S 36 in N.W. R 17 E S 31 in N.E. S 6 in S.E. and 31  
in S.W. quadrant

Dig pits 24x24x12 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 sp. cor. can be found  
Land well.

Soil sandy and stony 3<sup>rd</sup> and 4<sup>th</sup> rate.  
No timber

September 7<sup>th</sup> 1908.

### General Description.

Townships. 26 N. Ranges 16 and 17 E. are  
generally rolling sand hills. producing a  
scant growth of bunch grass, and sage brush.  
there is some good land along the Placca Wash.  
which could be farmed. The Townships are valuable  
principally for grazing purposes. Sidney E. Blount  
U.S. Examiner of Surveys

BOOK 2507

After careful investigation it was found to be totally impracticable on account of the almost complete obliteration of the original survey, to re-establish the old corners in their original positions. I therefore consulted with the Allotting Agent who informed me that no allotments in this vicinity would be based on the old obliterated lines, and a resurvey being suggested by him, I completely ignore such evidence of old survey as I find in the course of my resurveys.

BOOK 2807

Re-Survey Commenced September 15<sup>th</sup> 1908 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.

Examined the adjustments of the transit and found them to be perfect, and knowing from recent tests of the solar on a Meridian established by observations on Polaris, by a.m. and p.m. observations that the solar apparatus is in satisfactory adjustment.

NOTE:

I begin at the cor. of Pps. 26 and 27. N. Pp 16 and 17 E. which <sup>re</sup>established September 7<sup>th</sup> 1908, <sup>and herein before described</sup> Latitude  $35^{\circ}41'$  N, Longitude  $110^{\circ}35'$  W. Sept 15<sup>th</sup> 1908 At 9<sup>h</sup> 55<sup>m</sup> a.m. <sup>l. mt.</sup> I set of  $35^{\circ}41'$  N. on the lat. arc,  $3^{\circ}01'$  N. on the decl. arc. and determine a meridian with the solar, Thence I run re-surveying.

North by. sec. 31 and 36.

Over rolling hilly sandy land through sage brush and greasewood brush and bunch grass undergrowth

Difference between measurements of 40.00 chs by two sets of chainment is 2 chs. position of middle point

By 1<sup>st</sup> set 40.01 chs.

By 2<sup>nd</sup> set 39.99 chs.; the mean of which is 40.00 Set an iron post 3 ft. long. 1 in. in diam, 26 ins. in the ground <sup>re-established</sup> for  $\frac{1}{4}$  sec. cor. marked on brass cap. 14 S 36 W  $\frac{1}{2}$  half and S 31 on E half.

Dig pits 18x18x12 ins N and S. of post 3 ft. deep and raise a mound of earth  $3\frac{1}{2}$  ft. base  $1\frac{1}{2}$  ft. high W. of cor. No traces of old  $\frac{1}{4}$  sec. cor. visible. Difference between measurements of 80.00 chs. by two sets of chainment is 5 chs.; position of middle point

By 1<sup>st</sup> set 80.02 $\frac{1}{2}$  chs.

By 2<sup>nd</sup> set 79.97 $\frac{1}{2}$  chs. the mean of which is 80.00 Set an iron post 3 ft. long. 3 ins. in diam. 24 ins. in the ground <sup>re-established</sup> for  $\frac{1}{4}$  cor. of sec. 25, 32, 31 and 36.

BOOK

2507

marked on brass Cap. T 27 N. on N. half.  
R 16 E S 25 in N. W. R 17 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.  
diam. and raise a mound of earth 4 ft. high  
2 ft. high W of cor. No trace of old sec. cor. visible.

Land hilly.  
Soil sandy 3<sup>rd</sup> rate.  
No timber.

Worth Sec. 25 and 30.

Over low rolling sand hills through sage  
brush greasewood and bunch grass under-  
growth

Difference between measurements of 40.00 chs  
by two sets of chainmen is 4 lks.; position  
of middle point

By 1<sup>st</sup> Set. 40.02 chs.

By 2<sup>nd</sup> Set. 39.98 chs.; the mean of which  
is

40.00 Set an iron post. 3 ft. long 1 in in diam  
26 ins. in the ground <sup>re-established</sup> for 1/4 sec. Cor. marked  
on brass Cap. R S. 25 on W half, and S 30  
on E half.

Dig pits 18x18x12 ins. N on S. of post. 3 ft. diam.  
and raise a mound. of earth 3 1/2 ft. high 1/2  
ft. high W of cor. No trace of old 1/4 sec. cor. visible.

Difference between measurements of 80.00  
chs. by two sets of chainmen is 6 lks.  
position of middle point.

By 1<sup>st</sup> Set. 80.03 chs.

By 2<sup>nd</sup> Set. 79.97 chs. the mean of which is

80.00 Set an iron post. 3 ft. long 3 ins. in diam.  
24 ins. in the ground <sup>re-established</sup> for 1/4 sec. of 19, 24 25 and  
30, marked on brass Cap. T 27 N on N. half.  
R 16 E S 24 in N. W. R 17 E S 19 in N. E. S 30 in  
S. E. and S 25 in S. W. quadrant

Dig pits 18x18x12 ins in each sec 5 1/2 ft. diam.  
and raise a mound of earth 4 ft. high 2 ft.  
high W of cor. No trace of old sec. cor. visible.

Land hilly  
Soil sandy 3<sup>rd</sup> rate  
No timber

BOOK 2507

North bet. secs. 19 and 24.  
Over low rolling sand hills through sage  
brush, greasewood and bunch grass undergrowth  
Difference between measurements of 40.00 chs  
by two sets of chainmen is 5 lks; position  
of middle point

By 1<sup>st</sup> Set. 39.97½ Chs.

By 2<sup>nd</sup> Set 40.02½ Chs, the mean of which is  
40.00. Set an iron post 3 ft. long, 1 in. in diam 26  
ins. in the ground <sup>re-established</sup> for ¼ sec. cor. marked on  
brass cap. ¼ S 24 on W. half. and S. 19 on E. half.  
Dig pits 18x18x12 ins N and S of post 8 ft. dist  
and raise a mound of earth 8½ ft. base 14½ ft.  
high W. of cor. No trace of old ¼ sec. cor. visible  
Difference bet. measurements of 80.00 chs. by  
two sets of chainmen is 6 chs. position of  
middle point

By 1<sup>st</sup> Set. 79.71. Chs.

By 2<sup>nd</sup> Set 80.03 Chs. the mean of which is  
80.00 Set an iron post 3 ft. long, 3 ins. in diam 24  
ins. in the ground <sup>re-established</sup> for cor. of secs. 13, 18, 19 and  
24. marked on brass cap. T 27 N. on W. half.  
N 16 E S 13 in N. W. T 17 E S 18 in N. E. S 19 in S. E.  
and S 24 in S. W. quadrant  
Dig pits 18x18x12 ins in each sec. 5½ ft.  
dist. and raise a mound of earth 4 ft.  
base 2 ft. high W. of cor. No trace of old sec. cor. visible  
Land hilly.

Soil sandy 3<sup>rd</sup> rate.  
No timber

North bet. secs. 13 and 18.  
Over low rolling sand hills through sage  
brush, greasewood and bunch grass under-

BOOK

2507

growth

Difference between measurements of 40.00 Chs  
by two sets of chainmen is 4 lks.; position  
of middle point

By 1<sup>st</sup> Set. 39.98 Chs.

By 2<sup>nd</sup> Set. 40.02 Chs.; the mean of which

40.00 Set an iron post. 3 ft. long 1 in in diam 26  
ins. in ~~the~~ <sup>re-established</sup> ground. for <sup>14</sup> sec. cor. marked on  
the Cop. 1/4 S 13 on W. half. and S 18 on E half.  
Dig pits 18x18x12 ins. and 3. of post. 3 ft.  
diam. 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.  
Difference between measurements of 80.00 Chs  
by two sets of chainmen is 4 lks. position  
of middle point

By 1<sup>st</sup> Set. 77.98 Chs

By 2<sup>nd</sup> Set. 80.02 Chs. the mean of which  
is

80.00 Set an iron post. 3 ft. long 3 ins in diam  
24 ins in ~~the~~ <sup>re-established</sup> ground. for <sup>14</sup> sec. cor. of sec. 7, 12.  
13 and 18, marked on brass Cop. T 27 N.  
on N. half., R 16 E S 12 in N.W. R 17 E S 7 in  
N.E., S 18 in S.E. and S 13 in S.W. quadrant  
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. No trace of old sec. cor. visible  
Land hilly.  
Soil sandy 3<sup>rd</sup> rate.  
No timber

North bet-sec 7 and 12.

Over low rolling land hills through sage  
brush, greasewood and bunch grass undergrowth  
Difference between measurements of 40.00 Chs  
by two sets of chainmen is 8 lks.; position of  
middle point

By 1<sup>st</sup> Set. 40.04 Chs.

By 2<sup>nd</sup> Set. 39.96 Chs., the mean of which is

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

in the ground for <sup>re-established</sup>  $\frac{1}{4}$  sec. cor. marked on brass Cap.  $\frac{1}{4}$  S 12 on W half. and S 7 on E half.  
Dig pits 18x18x12 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. visible.  
45.20 Road from Polacca Ariz to Winslow Ariz  
Leaves N.E. and S.W.  
Difference between measurements of 80.00 Chs by two sets of Chainmen is 7 chs., position of middle point  
By 1<sup>st</sup> Set. 80.03  $\frac{1}{2}$  Chs.  
By 2<sup>nd</sup> Set. 79.96  $\frac{1}{2}$  Chs. the mean of which is  
80.00 Set an iron post. 3 ft. long 3 ins. in diam 24 ins. in the ground for <sup>re-established</sup> cor. of sec. 1, 6, 7 and 12. marked on brass Cap. T 27 N on N. half. R 16 E S 1 on N.W. R 17 E S 6 on N.E. S 7 on S.E. and S 12 on S.W. quadrants.  
Dig pits 18x18x12 ins in each sec. 5  $\frac{1}{2}$  ft. dist. and raise a mound of earth  $4\frac{1}{2}$  ft. base 2 ft. high W. of cor. No trace of old sec. cor. visible.  
Land hilly -  
Soil sandy 3<sup>rd</sup> rate.  
No timber

North bet. sec. 1 and 6.  
Ascend S. slope of ridge over hilly land through scattering sage brush greasewood and bunch grass  
Difference between measurements of 40.00 Chs. by two sets of Chainmen is 5 chs. position of middle point, to  
By 1<sup>st</sup> Set. 39.97  $\frac{1}{2}$  Chs.  
By 2<sup>nd</sup> Set. 40.02  $\frac{1}{2}$  Chs. the mean of which is  
40.00 Set an iron post. 3 ft. long 1 in. in diam 26 ins. in the ground for <sup>re-established</sup>  $\frac{1}{4}$  sec cor marked on brass Cap.  $\frac{1}{4}$  S. 1 on W half and S 6 on E half. No trace of old  $\frac{1}{4}$  sec. cor. can be found.  
Dig pits 18x18x12 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.

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51.00 Top of ridge bears N.W. and S.E. due  
53.00 Dry ravine Course S.E. due  
58.50 Top of ridge bears N.W. and S.E. due  
64.00 Dry ravine Course S.E. due  
68.00 Top of ridge bears N.W. and S.E. due  
73.00 Dry ravine Course S.E. due

Difference between measurements of 80.00 Chs  
by two sets of chainmen is 8 lbs. position  
of middle point

By 1<sup>st</sup> set. 79.96 Chs.

By 2<sup>nd</sup> set. 80.04 Chs. the mean of which  
is

80.00 Set an iron post. 3 ft. long. 3 ins in diam<sup>24 ins in the ground</sup>  
re-established  
for Cor of townships 27 and 28 N. R's 16 and  
17 E. marked on brass Cop. T 28 N. on N. half.  
T 27 N. on S. half, R 16 E S 30 in N.W. R 17 E  
S 31 in N.E, S 6 in S.E and S 1 in S.W. quadrants.  
Dig pits 24 x 24 x 12 in on lines N, E and  
W 4 ft. and S. of post. 8 ft. dia and  
have a mound of earth 5 ft. base 2 1/2  
ft. high S of Cor. No trace of old sp. cor. can be found.  
Land hilly,  
Soil sandy and adobe 3<sup>rd</sup> rate  
No timber

September 15<sup>th</sup> 1908

### General Description

Townships 27 N. R's 16 and 17 E. are generally  
rolling sand hills producing a good  
growth of bunch grass. and there is some  
good lands along the Polacca Wash in R 17 E.  
There is no running water in the township.

Sydney E. Blough,  
U.S. Examiner of Surveys

Survey Commenced Oct. 8<sup>th</sup> 1908 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.

From recent tests of the solar by am. and p.m. observations on a meridian determined by observations on Polaris I know that the instrument is in satisfactory adjustment therefore

I begin at the Cor. of Tps 27 and 28 N. R's 16 and 17 E. which I established September 7<sup>th</sup> 1908, <sup>and hereinbefore described</sup> Latitude  $35^{\circ}46'14''$  N. Longitude  $110^{\circ}35'$  W.

At this Cor. at 8<sup>h</sup> 45<sup>m</sup> am. I set off  $35^{\circ}46'14''$  N. on the lat. arc  $5^{\circ}52\frac{1}{2}'$  S on the decl. arc and determine a meridian with the solar.

Trench I run

North bet. sec 31 and 36.

Descend N.E. slope over hilly sandy and adobe land through scattering sage and greasewood brush.

18.40 Dry ravine Course W. arc.

27.40 Old road bears N.E. and S.W. leads to the Indian village of Mishongvisire

32.35 Top of ridge bears N.E. and S.W. desc.

Difference between measurements of 40.00 Chs. by two sets of chain men is 5 Chs. position of middle point.

By 1<sup>st</sup> Set. 40.02 $\frac{1}{2}$  Chs.

By 2<sup>nd</sup> Set. 39.97 $\frac{1}{2}$  Chs. the mean of which is

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. 44836 on W half and 331 on E half.

Raise a mound of stone 2 ft. base 1 $\frac{1}{2}$  ft. high W of Cor.

43.00 Dry ravine Course S.W. arc.

57.00 Top of ridge bears N.E. and S.W. desc.

58.70 Dry ravine Course S.W. comes from N. there is ravine

65.65 Leave ravine. Comes from N.W. arc.

77.00 North of Mts. bears N.E. and S.W. Leads hilly land

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bears N.E and S.W., Ascend S slope over cliffs and ledges over stony mountainous land.

Difference between measurements 780.00 Chs by two sets of Chainmen is 10 lks: position of middle point.

By 1<sup>st</sup> Set. 80.05 Chs.

By 2<sup>nd</sup> Set. 79.95 Chs the mean of which is 80.00 Set an iron post 3 ft. long 3 in. in diam 24 in in the ground for cor of secs 25 30. 31 and 36. marked on brass Cap. T 28 N. on N. half.,

R 16 E S 25 in NW R 17 E S 30 in N.E., S 31 in S.E. and S 36 in S.W. quadrant

Raise a mound of earth 2 ft. tall 2 ft. high W of cor. (is impracticable)

Land hilly and mountainous.

Soil sandy and adobe and stony 3<sup>rd</sup> and 4<sup>th</sup> rate. No timber

Mountainous land 3.00 Chs

North br. secs. 25 and 30.

Ascend S slope over stony mountainous land over cliffs and ledges

1.50 Top of Cliff 50 ft. above cor bears N.E and S.W.

6.00 Top of sand stone ledge bears N. and S thence along top of ledge

13.80 North end of ledge descend abruptly over N. slope in to deep ravine in bottom of Canyon

35.76 Foot of descent in Canyon 150 ft. deep. Cross dry ravine course W. asc. abruptly

38.00 Top of Spur bears N 80° E and 80° W., thence along base of sandstone cliffs.

Difference between measurements of 40.00 Chs by two sets of Chainmen is 14 lks: position of middle point

By 1<sup>st</sup> Set. 40.07 Chs.

By 2<sup>nd</sup> Set. 39.93 Chs. the mean of which is 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. N 325 on W half and S 30 on E half

Raise a mound of stone 2 ft. tall 1 1/2 ft. high W of cor

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Pits impracticable

This cor is on a narrow ledge at foot of perpendicular sandstone cliff 30 ft. high. Ascend cliff

47.75 Top of cliff 40 ft above cor.

52.25 Top of 1<sup>st</sup> bench on W. side of mesa, thence along top of bench over stony land

70.90 North edge of bench on cliff toward E and W descend abruptly over N. slope

Difference between measurements of 80.00 chs by two sets of chainmen is 18 chs: position of middle point.

By 1<sup>st</sup> set. 80.07 chs.

By 2<sup>nd</sup> set. 79.91 chs. the mean of which is 80.00 Set an iron post 3 ft. long 3 ins. in diam. 24 ins in the ground for cor. of recs. 19.24.25 and 30 Marked on brass cap T 28 N. on N. half.

R 16 E S 24 in NW. R 17 E S 19 in NE. S 30 in SE. and S 25 in SW. quadrant

Raise a mound of stone 2 ft base 1 1/2 ft. high.

W. of cor. Pits impracticable

Land mountainous.

Soil stony 4<sup>th</sup> rate.

No timber

Mountainous land 80.00 chs.

North to recs 19 and 24.

Descend steep NW. slope over stony mountainous land

00.35 Dry ravine course NE. asc.

8.75 Top of spur toward NE and SW desc

18.60 Dry ravine course NW.

19.35 Same ravine NE. asc.

27.00 Top of spur toward NE and SW desc steeply

39.60 Dry ravine course NW.

Difference between measurements of 40.00 chs by two sets of chainmen is 10 chs, position of middle point.

By 1<sup>st</sup> set. 39.95 chs.

By 2<sup>nd</sup> set. 40.05 chs; the mean of which is

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

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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 18x18x12 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.

40.55 Top of spur beam N.E. and S.W. desc.

41.70 Dry ranine 20 lbs wide Course N.E. asc.

42.70 Top of spur beam N.E. and S.W. desc.

44.00 The same ranine 20 lbs wide Course N.W. asc.

46.00 Top of spur beam N.W. and S.E. desc.

47.50 The same ranine 20 lbs, wide Course N.E. asc.

48.00 Point of spur beam N.E. and S.W. desc.

48.40 The same ranine 20 lbs wide Course N.W. asc.

58.00 Top of spur beam N.W. and S.E. desc.

64.00 Dry sand wash. 30 lbs wide Course N.W. asc.

70.00 Top of spur beam N.W. and S.E. desc.

Difference between measurements of 80.00 chs.  
by two sets of chain men is 17 lbs. in position  
of middle point

By 1<sup>st</sup> Set. 80.08  $\frac{1}{2}$  chs.

By 2<sup>nd</sup> Set. 79 9  $\frac{1}{2}$  chs; the mean of which is  
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 brass Cap. T 28 N. on W. half

R 16 E S 13 in NW. R 17 E S 18 in N.E. S 19 in S.E. and  
S 24 in S.W. quadrant

Dig pits 18x18x12 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.

Land mountainous.

Soil sandy and stony 3<sup>rd</sup> and 4<sup>th</sup> rate

No timber.

Mountainous Land 80.00 chs.

October 8<sup>th</sup> 1908

October 9<sup>th</sup> 1908  
At 8<sup>h</sup> 03<sup>m</sup> a.m. l.m. to Dyer  
off. 35° 49' N. on the lat. arc 6° 14' S. on the decl.  
arc and determine a meridian with the  
Solar at the cor. of sec. 13, 18, 19 and 24, <sup>above described</sup> then  
Drun

North between Secs 13 and 18.

- Descend N.W. slope of spur over mountainous land through scattering sage brush and greasewood undergrowth and bunch grass.
- 00.75 Dry ravine Course W. asc.
- 13.00 Top of spur toward N.W. and S.E. desc.
- 20.00 Dry ravine 60 lbs. wide Course 71 75° W. extends East to foot of mesa. Leave mountainous land toward N.W. and S.E., enter hilly land toward N.W. and S.E., ascend gradually over S.W. slope
- 29.00 Dry ravine 20 lbs wide 3 ft. deep Course S.W.  
Difference between measurements of 40.00 chs by two sets of Chainmen is 6 lbs., position of middle point  
By 1<sup>st</sup> Set. 40.03 Chs.  
By 2<sup>nd</sup> Set. 39.97 Chs. the mean of which is  
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 hard Cop. 4 S 13 on W. half. and 318 on E. half.  
Dig pits 18x18x12 ins N and S. of post. 3 ft. dist and raised mound of earth 3 1/2 ft. base 1 1/2 ft. high W. of cor.
- 60.50 Top of ridge toward N.E. and S.W. desc.
- 73.80 Dry ravine 30 lbs. wide Course S.W. asc. slightly.  
Difference between measurements of 80.00 chs by two sets of Chainmen is 10 lbs., position of middle point  
By 1<sup>st</sup> Set 80.05 chs.  
By 2<sup>nd</sup> Set. 79.95 Chs. the mean of which is  
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 on hard Cop. T28 N. on N. half. R16 E S12 in N.W. R17 E S7 in N.E. S18 in S.E. and S13 in S.W. quadrant  
Dig pits 18x18x12 ins in each sec., 5 1/2 ft. dist. and raised mound of earth 4 ft. base 2 ft. high W. of cor.  
Land hilly and mountainous.  
Soil sandy and stony 3<sup>rd</sup> and 4<sup>th</sup> rate.  
No timber  
Mountainous land 20.00 chs.

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- North let recs. 7 and 12.  
Over hilly sandy land through scattering  
sage brush greasewood and bunch grass
- 4.80 Dry ravine 25 lbs wide 5 ft. deep Course S.W. and  
S.E. Slope of ridge
- 32.00 Top of ridge bears N.E. and S.W. due over N.W.  
Slope  
Difference between measurements of 40.00 chs  
by two sets of chainmen is 4 chs. position of  
middle point.
- By 1<sup>st</sup> Set. 39.98 chs.  
By 2<sup>nd</sup> Set. 40.02 chs. the mean of which is  
40.00 Set an iron post. 3 ft. long. 1 in in diam 26 ins  
in the ground for base. Cor. marked on base  
Cp. 1/4 S 12 on W half. and S 7 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 3 1/2 ft. base 1 1/2 ft.  
high W of cor.
- 40.50 Dry ravine Course N.W.
- 42.00 Dry ravine Course W. 20 lbs wide 2 ft. deep.
- 53.50 Dry ravine 40 lbs wide Course S.W. at foot  
of Mesa. Level hilly land bears N.E. and S.W.  
Ascend steep rocky south slope of Mesa over  
sand stone cliffs and ledges. over mountainous  
land bears N.E. and S.W.
- 76.00 Top of alcove at base of Mesa bears N.E.  
and S.W. 200 ft. above canon, are gradually  
Difference between measurements of 80.00 chs  
by two sets of chainmen is 16 chs. position  
of middle point
- By 1<sup>st</sup> Set. 79.92 chs.  
By 2<sup>nd</sup> Set. 80.08 chs. the mean of which  
is.  
80.00 Set an iron post. 3 ft. long 3 ins. in diam. 24  
ins. in the ground for. Cor. of recs. 1, 6, 7 and  
12. marked on base Cp. T 28 N on N. half.  
R 16 E S 1 in N.W. R 17 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. Pits impracticable.  
Land hilly and mountainous  
Soil sandy and stony 3<sup>rd</sup> and 4<sup>th</sup> rate

No timber

Mountainous land 26.50 chs.

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North 1/4 sec. 1 and 6.

Ascend S. slope of mesa over Mountainous land.  
Cliffs and ledges.

465. Top of cliff 80 ft. above Cor. on S edge of mesa  
bears N.E. and S.W., Leave mountainous land  
bears N.E. and S.W. Enter rolling land on top  
of mesa bears N.E. and S.W.

7:00 Enter scrub cedar timber bears N.E. and S.W.

32.00 North edge of mesa on cliff bears E and N.W.  
Leave rolling land bears N.W. and E., Desc.  
abrupt N. slope over stony Mountainous land.  
Difference between measurements of 40.00 chs.  
by two sets of chainmen is 12 chs. position of  
middle point

By 1<sup>st</sup> Set 40.06 chs.

By 2<sup>nd</sup> Set 39.94 chs. the mean of which is

40.00 The point for the 1/4 sec. cor. falls on the edge of a  
sand stone boulder where I can not see the  
iron post. therefore I cut a cross at the exact  
cor. point, and at.

40.26 Set an iron post 3 ft. long 1 in. in diam 26 in.  
in the ground for witness cor. to the 1/4 sec. cor.  
marked on the base cap. W.C. 143-1 on W. half.  
and 36 on E. half., No trees available for bearing lines  
Raise a mound of stone 3 1/2 ft. base, 1 1/2 ft. high.  
W. of cor. Pit impracticable  
From this cor. the entrance to a coal mine  
bears S 45° E about 6.00 chs. dist.

43.00 North edge of 1<sup>st</sup> bench of mesa bears S.E. and W.  
desc. steeply into ravine, Leave timber bears E and W.

48.35 Dry ravine at foot desc. Course N.E. ascend.  
cliffs

50.00 Top of cliff 50 ft. above ravine, on point of mesa  
bears N.E. and S.W., thence over broken stony land  
on top of 1<sup>st</sup> bench of mesa.

60.50 North edge of point of mesa on cliff 40 ft. high

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62.50

2507

fears E and W. due abruptly over N slope  
Hoop of cliffs fears E and W. desc steeply over  
sandy land.

Difference between measurements of 80.00 chs  
by two sets of Chain men is 18 lks; position of  
middle point.

By 1<sup>st</sup> set. 80.09 chs.

By 2<sup>nd</sup> set 79.91 chs the mean of which is  
80.00 intersects the Seventh Standard Parallel North  
18 lks E of the <sup>old</sup> Stand 1/4 sec Cor. on the 3<sup>rd</sup> day

of sec. 36 T 29 N. R 16 E. <sup>which is a sandstone 12x10x2 ins above</sup>  
ground, loosely set, marks nearly effaced, no  
trace of pits and mound.

Set an iron post 3 ft. long 3 ins in diam., 24 ins  
in the ground. for Closing Cor. of Tps 28 N, R's  
16 and 17 E. marked on base Cop. T 29 N. R 16 E. R 17 E.  
S 36. S 31 in N. half. C.C. T 28 N. in S half. S 6 R 17 E in  
S.E. and S 1 R 16 E. in S.W. quadrant.

Dig pit 30x24x12 ins. Crosswise on line E. and W.  
of 4 ft. and 3.7 post. 7 ft. dirt and raise a mound  
of earth 5 ft. base 2 1/2 ft. high S. of Cor.

Sand rolling and mountainous.

Soil sandy and stony 3<sup>rd</sup> and 4<sup>th</sup> rate.

Timber Scrub Cedar

Mountainous land. 52.65 chs.

NOTE

At the cor. of <sup>Tps. 28 N. R's 16 and 17 E. hereinafore described</sup> sec. 1, 6, 7 and 12, I set off 6° 19' S on  
the decl arc and at 11<sup>h</sup> 48' am. l.m.t. observed the  
sun on the meridian, the resulting lat. being  
35° 50' N. which is about the proper latitude of  
this place

October 9<sup>th</sup> 1908

### General Description

Nowaship. No. 28 R 16 E. is generally rolling  
producing an abundant growth of bunch  
and sacaton grass. and there is a large body  
of good farming land along the Craigs Wash.  
Tps 28 N R 17 E. is generally a high rocky  
mesa land. producing very little grass.  
and very little land that would be classed  
as 1<sup>st</sup> rate.

Sydney E. Blount  
U.S. Examiner of Surveys

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BOOK 2507

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

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BOOK 2507

LIST OF NAMES.

A list of the names of the individuals employed by Sidney E. Blunt  
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 Fourth Guide  
Meridian East, through Townships No. 25, 26, and 28 North  
and resurvey of same through Tp. 27 N. and resurvey of 6th Std. Parallel N. through part of Range 16 East of the  
showing the respective capacities in which they acted: G. & S. P. Meridian, Arizona.  
Harry Lake May  
Fred L. Warner and Van L. White....., Chainman.  
Ralph P. Westraud and Walter A. Swaffer....., Chainman.  
Henry Jennings....., Moundman.  
Harry J. Hassler....., Moundman.  
Charles A. Dutton....., Arman.  
 .....  
 .....  
Robt. E. Claborn and Charles L. Shumway....., Flagman.

FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted Sidney E. Blunt  
Examiner of Surveys  
 United States ~~Deputy Surveyor~~, in surveying all  
 those parts or portions of the Fourth Guide Meridian East through  
Townships No. 25, 26, and 28 North, resurvey of same  
through Tp. 27 North, and resurvey of 6th Standard Parallel  
North in Range 16 East of the Gila and  
Salih River Meridian in the 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  
and resurvey has been in all respects, to the best of our knowledge and belief, well and faithfully executed and the  
or re-established corner monuments established, according to the instructions furnished by the United States Surveyor  
 General for of the General Land Office Harry Lake May Chainman  
Fred L. Warner and Van L. White....., Chainman.  
R. T. Westraud and Walter A. Swaffer....., Chainman.  
Henry Jennings....., Moundman.  
Harry J. Hassler....., Moundman.  
Charles A. Dutton....., Arman.  
 .....  
 .....  
Robt. E. Claborn and Charles L. Shumway....., Arman.

Subscribed and sworn to before me this 9th  
 day of October 1908



Sidney E. Blunt  
U.S. Examiner of Surveys

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2807

EXAMINER OF SURVEYS  
FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

I, Sidney E. Blout, Examiner of Surveys, United States Deputy Surveyor, do solemnly swear that, in pursuance of ~~contract received from~~ Special instructions received from the Commissioner of the General Land Office, bearing date of the 2<sup>nd</sup> day of Oct 1907 ~~or~~ and the 15<sup>th</sup> 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 General for the General Land Office, the Manual of Surveying Instructions, and the laws of the United States, surveyed all those parts or portions of The Fourth Guide Meridian East through Townships No. 25, 26, and 28 North, resurveyed same through Twp. 27 North, and resurveyed the 6th Standard Parallel North in Range 16 East of the Gila and Salt River Meridian, in the Territory of Arizona, which are represented in the foregoing field notes as having been surveyed and resurveyed by me, and under my direction; and I do further solemnly swear that all the corners of said survey and resurvey have been established or re-established in strict accordance with the Manual of Surveying Instructions, and the special written instructions of the United States Surveyor General for 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 and resurvey.

Subscribed by said Sidney E. Blout, and sworn to before me  
this 1<sup>st</sup> day of December, 1909



Sidney E. Blout  
United States Deputy Surveyor  
Examiner of Surveys  
W. H. Burbage  
Notary Public

APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Phoenix, Arizona APR 25, 1904

The foregoing field notes of the survey of the  
4th Guide Meridian East, thru  
Townships 25, 26 and 28 North, and resurvey of same  
through Township 27 North, and resurvey of the  
6th Standard Parallel North, thru part of Range 16 East  
of the Gila and Salt River 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.