

1896

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BOOK 1896

# FIELD NOTES

OF THE SURVEY OF THE

subdivision lines of Tp. 7 S. Rg. 17 E.

*and*  
*Recovery of South and West Boundaries of T. 7 S. R. 17 E.*

1896-

1896

Of the Gila and Salt River Meridian,  
Territory of Arizona.

AS SURVEYED BY

John F. Hesse, United States Deputy Surveyor,

Under his Contract No. 135, dated June 16, 1905., 190

Survey commenced September 29, 1905., 190

Completed October 13, 1905., 190

15  
1A

NAMES AND DUTIES OF ASSISTANTS.

BOOK 1896

W. W. Oliver Chairman.

B. M. Hyde Chairman.

Frank Robertson Axman.

H. S. Young Flagman.

BOOK 1896

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BOOK 1896

WE, W. W. Oliver and B. M. Hyde

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 subdivision lines of Tp. 7 S. Rg. 17 E. and resurvey of the S. and W. Bdy. of Tp. 7 S. R. 17 E.

W. W. Oliver, Chainman.

B. M. Hyde, Chainman.

Subscribed and sworn to before me this 29th. }  
day of September, 190 5



John P. Kesse

U. S. Deputy Surveyor

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, I. Frank Robertson

1896

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

the subdivision lines of Tp. 7 S. Rg. 17 E. and resurvey of the S. & W. Bdy. of Tp. 7 S. R. 17 E.

Frank Robertson, Axman.

\_\_\_\_\_, Axman.

Subscribed and sworn to before me this 29th. }  
day of September, 190 5



John P. Kesse

U. S. Deputy Surveyor

I, H. S. Young

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

the subdivision lines of Tp. 7 S. Rg. 17 E. and resurvey of the S. & W. Bdy. of Tp. 7 S. R. 17 E.

H. S. Young, Flagman.

Subscribed and sworn to before me this 29th. }  
day of September, 190 5.



John P. Kesse

U. S. Deputy Surveyor.

6-1-1  
*No notary available without great expense and loss of time*

chains.

As my survey of the east and north boundaries of Tp. 7 S. Rg. 17 E. does not close within limits on the old survey of the west and south boundaries of the Tp. I therefore resurvey the west and south boundaries of the township as follows;

September 29 : At 7h. 00m. a.m. l.m.t. I set off 32° 51 1/2' N. on the lat. arc; 2° 15' S. on the dec'l. arc; and determine a meridian at the cor. of Tps. 6 and 7 S. Rgs. 16 and 17 E.

Thence I run  
 South bet. secs. 1 and 6.  
 Over rolling mountainous land through dense brush. ~  
 39.71 A point 44 lks. W. of the remains of 1/4 sec. cor. a post with marks nearly obliterated with pits destroyed. I destroy all traces of the old cor. and reestablish it in the same place as follows;  
 Set a granite stone 18 x 10 x 5 ins. 12 ins. in the ground for 1/4 sec. cor. marked 1/4 on W. face; dig pits 18 x 18 x 12 ins. N. and S. of stone 3 ft. dist.; and raise a mound of earth 3 1/2 ft. base 1 1/2 ft. high W. of cor. The course of this half mile is S. 0° 38' E. and the length is 39.71 chs.  
 Thence from 1/4 sec. cor. *South*

32.45 Over bottom land.  
 37.25 Cross brush fence bears E. and W.  
 39.96 A point 8 lks. W. of a trace of the cor. The bearing trees have all been cut down, the pits are gone and the marks on the post are nearly obliterated. I destroy all traces of the old cor. and in the same place re-establish the cor as follows;  
 Set a granite stone 18 x 10 x 4 ins. 12 ins. in the ground for cor. of secs. 1, 6, 7 and 12 marked with 5 notches on S. and 1 notch on N. edges; and dig pits 18 x 18 x 12 ins. in each sec. 5 1/2 ft. dist.; and raise a mound of earth 2 ft. base, 2 ft. high W. of cor.  
 The course of this half mile is S. 0° 07' E. and the distance 39.96 chains.  
 Land, mountainous and level.  
 Soil, loamy and stony; 1st. and 4th. rate.  
 No timber.  
 Undergrowth, paloverde and mesquite.  
 Mountainous land and land covered with dense undergrowth 79.67 chains.

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South bet. secs. 7 and 12.  
 Over bottom land through dense brush.  
 9.15 Cross irrigating ditch 4 lks. wide course E. W.  
 16.40 Cross fence bears N. E. and S. W.  
 17.70 Cross road bears E. and W.  
 24.35 Cross Arivaipa Creek, 20 lks. wide course W.  
 28.15 Cross road bears E. and W.  
 28.90 Cross irrigating ditch 4 lks. wide course W.  
 32.00 Leave bottom land and ascend steep N. slope.  
 39.90 A point 10 lks. W. of remains of the 1/4 sec. cor. a granite stone faintly marked 1/4 on W. face poorly set. I destroy all traces of the old cor. and in the same place re-establish the cor. as follows;  
 Set a granite stone 24 x 12 x 5 ins. 12 ins. in the ground for 1/4 sec. cor. marked 1/4 on W. face; and raise a mound of stone 2 ft. base 1 1/2 ft. high W. of cor. Pits impracticable.  
 The course of this half mile is S. 0° 09' E. and the distance is 39.90 chains,  
 Thence from 1/4 sec. cor. *South*

2.35 Top of mountain and over rolling mountainous land, leave brush.  
 12.10 Cross wash 10 lks. wide course S. W.  
 15.60 Cross wash 8 lks. wide course N. W.  
 31.30 Cross wash 8 lks. wide course S. W.  
 40.15 A point 42 lks. west, of the old cor. a post with marks nearly rotted away with pits gone. I destroy all traces of the old cor. and in the same place re-establish the cor. as follows;

Chains.

Set a Quartzite stone 18 x 8 x 6 ins. 12 ins. in the ground for cor. of secs. 7, 12, 13 and 18 marked with 2 notches on N. and 4 notches on S. edges; and raise a mound of stone 2 ft. base, 1 1/2 ft. high W. of cor. Pits impracticable. *Course of this half mile is 50° 15' E. 40.15*

Land, level and mountainous.

Soil, sandy and stony, 2nd. and 3rd. rate.

No timber.

Undergrowth, paloverde, greasewood and buck brush.

Mountainous land and land covered with dense undergrowth  
80.05 chains.

September 29: At this cor. I set off 2° 21 1/2' S. on the declination; and observe the sun on the meridian at noon, the resulting lat. is 32° 49 1/2' N.

South bet. secs. 13 and 18.

Over chopped broked land through dense brush.

4.50 Cross wash 4 lks. wide course N. W.

7.50 Cross wash 5 lks. wide course N. W.

14.50 Cross wash 75 lks. wide course W.

20.35 Cross wash 8 lks. wide course W.

39.82 A point 14 lks. W. of remains of old cor. A stone poorly set with marks nearly obliterated and pits gone. I destroy all traces of the old cor. and in the same place re-establish it as follows;

Set a granite stone 18 x 12 x 4 ins. 12 ins. in the ground for 1/4 sec. cor. marked 1/4 on W. face; and raise a mound of stone 2 ft. base 1 1/2 ft. high W. of cor. Pits impracticable.

The course of this half mile is S. 0° 12' E. and the distance is 39.82 chs.

Thence from 1/4 sec. cor. *Run South*

7.70 Cross wash 10 lks. wide course N. W.

20.00 Cross wash 50 lks. wide course W.

21.20 Cross wash 8 lks. wide course W.

39.70 A point 1/4 lks. west of old cor. a stone 12 x 10 x 5 ins. sitting on top of ground with marks nearly gone and remains of a mound of stone W. of cor. and a bearing tree N. W. of cor. I destroy the old cor. and in the same place re-establish it as follows;

Set a granite stone 18 x 12 x 8 ins. 12 ins. in the ground for cor. of secs. 13, 18, 19 and 24 marked with 3 notches on N. and S. edges; and raise a mound of stone 2 ft. base 1 1/2 ft. high W. of cor. Pits impracticable.

From the cor. the old bearing tree, a paloverde 5 ins. diam, bears N. 20° W. 30 lks. dist. marked T Vils. R XVIIE. This tree is nearly rotted away and it is impossible to remark it. No other trees available.

The course of this half mile is S. 0° 16' E. and the distance is 39.70 chains.

Land, mountainous.

Soil, stony; 3rd. rate.

No timber.

Undergrowth, greasewood and paloverde.

Mountainous land and land covered with dense undergrowth  
79.52 chains.

South bet. secs. 19 and 24.

Over rolling mountainous land through dense brush.

1.50 Cross drain 4 lks. wide course S. W.

5.50 Cross drain 8 lks. wide course S. W.

12.50 Cross wash 100 lks. wide course W.

33.00 Cross wash 5 lks. wide course S. W.

39.96 The cosecor. a granite stone 10x 6 x 6 ins. poorly set with marks nearly gone. I destroy this cor. and in the same place re-establish it as follows;

Set a quartzite 18 x 8 x 6 ins. 12 ins. in the ground for 1/4 sec. cor. marked 1/4 on W. face; and raise a mound of stone 2 ft. base 1 1/2 ft. high W. of cor. Pits impracticable.

Thence from 1/4 sec. cor. *Run South*

0.65 Cross wash 75 lks. wide course W.

Resurvey of the west boundary of Tp. 7S. Rg. 17 E.

Chains.

2.50 Cross wash 30 lks. wide course N. W.  
 8.05 Cross wash 5 lks. wide course N. W.  
 22.50 Cross wash 10 lks. wide course N. W.  
 39.99 A granite stone poorly set with marks nearly gone and remains of a mound of stone N. of cor. I destroy this cor. and in the same place re-establish it as follows; Set a malpais stone 18 x 10 x 4 ins. 12 ins. in the ground for cor. of secs. 19, 24, 25 and 30 marked with 2 notches on S. and 4 notches on N. edges; and raise a mound of stone 2 ft. base 1 1/2 ft. high W. of cor. Pits impracticable.  
 Land mountainous.  
 Soil, sandy; 3rd. rate.  
 No timber.  
 Undergrowth paloverde and greasewood.  
 Mountainous land and land covered with dense undergrowth  
 79.95 chs.

September 29, 1905.

September 30: At 7h. 00m. a.m. l.m.t. I set off 32° 48' N. on the lat. arc; 2° 38' 1/2' S. on the dec'l. arc; and determine a meridian with the solar at the cor. of secs. 19, 24, 25 and 30.

Thence I run

South bet. secs. 25 and 30.

Over rolling mountains through dense brush.

2.50 Cross wash 20 lks. wide course S. W.  
 11.60 Cross drain 5 lks. wide course S. W.

26.55 Cross wash 20 lks. wide course N. W.

40.57 A point 20 lks. W. of old 1/4 sec. cor. a granite stone with marks nearly obliterated and accessories gone. I destroy the old cor. and in the same place re-establish it as follows;

Set a granite stone 18 x 10 x 8 ins. 12 ins. in the ground for 1/4 sec. cor. marked 1/4 on W. face; and raise a mound of stone 2 ft. base 1 1/2 ft. high W. of cor. Pits impracticable.

The course of this half mile is S. 0° 17' E. and the distance is 40.57 chains.

14.65 Thence from 1/4 sec. cor. *South*

14.65 Cross wash 10 lks. wide course S. W.  
 25.00 Cross wash 300 lks. wide course W.

40.74 A point 50 lks. W. of the old cor. A granite stone well set with marks nearly obliterated and accessories gone. I destroy the old cor. and in the same place re-establish it as follows;

Set a granite stone 24 x 16 x 10 ins. 18 ins. in the ground for cor. of secs. 25, 30, 31 and 36 marked with 1 notch on S. and 5 notches on N. edges; from which

A A paloverde 4 ins. diam. bears S. 23 3/4° W. 17 lks. dist. marked T7SR16ES36BT.

A paloverde 4 ins. diam. bears N. 45 1/2° W. 61 lks. dist. marked T7SR16ES25BT.

No other trees available. Raise a mound of stone 2 ft. base 1 1/2 ft. high W. of cor. Pits impracticable.

The course of this half mile is S. 0° 42' E. and the distance is 40.74 chains.

Land mountainous.

Soil, sandy and stony; 3rd. and 4th. rate.

No timber.

Undergrowth paloverde and greasewood.

Mountainous land and land covered with dense undergrowth  
 81.31 chains.

South bet. secs. 31 and 36.

Over choppy land through dense brush.

4.00 Cross wash 10 lks. wide course S. W.  
 28.65 Cross wash 8 lks. wide course S. W.

36.10 Cross wash 5 lks. wide course N. W.  
 39.48 A point 37 lks. W. of old 1/4 sec. cor. a granite stone

poorly set with marks nearly obliterated and accessories gone. I re-establish the cor. in the same place as follows;

BOOK 1896

Chains.

6.30  
28.00  
39.50

Set a malpais stone 18x 10 x 6 ins. 12 ins. in the ground for  $\frac{1}{4}$  sec. cor. marked  $\frac{1}{4}$  on W. face; and raise a mound of stone 2 ft. base 1 1/2 ft. high W. of cor. Pits impracticable.

The course of this half mile is S. 0° 32' E. and the distance is 39.48 chains.

Thence from  $\frac{1}{4}$  sec. cor. *Iron South*

Cross drain 6 lks. wide course N.W.

Cross wash 10 lks. wide course W.

A point 8 lks. west of old cor. a granite stone 15 x 12 x 6 ins. above ground well set with marks nearly gone and accessories destroyed. I destroy this cor. and in the same place re-establish it as follows:

Set a granite stone 20 x 15 x 12 ins. 15 ins. in the ground for cor. of Tps. 7 and 8 S. Rgs. 16 and 17 E. marked with 6 notches on each edge; from which

A paloverde 4 ins. diam. bears N. 88° E. 17 lks. dist. marked T7SR17ES31BT.

A paloverde 4 ins. diam. bears S. 34 3/4° E. 111 lks. dist. marked T8SR17ES6BT.

A paloverde 4 ins. diam. bears S. 4 1/2° W. 23 lks. dist. marked T8SR16ES1BT.

A paloverde 4 ins. diam. bears N. 65 1/2° W. 10 lks. dist. marked T7SR16ES36BT.

*The course of this half mile is 30 1/2° E. and the distance 39.50*  
Land mountainous and broken.

Soil, sandy and stony; 2nd. and 4th. rate.

No timber.

Undergrowth paloverde and greasewood.

Mountainous land and land covered with dense undergrowth

78.98 chains.

*September 30-1928*  
At this cor. I set off 2° 45' S. on the dec'l. arc; and observe the sun on the meridian at noon, the resulting lat. is 32° 46' N.

Chains.

East bet. secs. 6. and 31.  
 Over rough broken land through dense brush.  
 4.00 Cross wash 8 lks. wide course S. W.  
 16.40 Cross wash 12 lks. wide course S. W.  
 36.35 Cross wash 10 lks. wide course S. W.  
 39.26 A point 6 lks. S. of remains of  $\frac{1}{4}$  sec. cor. A stone poorly set with marks nearly obliterated and accessories gone. I destroy this cor. and in the same place re-establish it as follows;  
 Set a granite stone 18 x 8 x 5 ins. 12 ins. in the ground for  $\frac{1}{4}$  sec. cor. marked  $\frac{1}{4}$  on N. face; and raise a mound of stone 2 ft. base 1 1/2 ft. high N. of cor. Pits impracticable.  
 The course of this half mile is N. 89° 55' E. and the distance is 39.26 chains.  
 Thence from  $\frac{1}{4}$  sec. cor. *Run East*  
 4.05 Cross wash 8 lks. wide course N. W.  
 34.55 Cross wash 6 lks. wide course S. W.  
 40.08 A point 6 lks. N. of old cor. a granite stone with marks nearly obliterated, poorly set, and with accessories gone. I destroy the old cor. and in the same place re-establish it as follows: *True Course last half mile N 89° 55' E*  
 Set a granite stone 20 x 14 x 10 ins. 15 ins. in the ground for ~~cor.~~ secs. 5, 6, 31 and 32 marked with 5 notches on E. and 1 notch on W. edges; from which  
 A paloverde 4 ins. diam bears N. 19  $\frac{1}{4}$ ° E. 28 lks. dist. marked T7SR17ES32BT.  
 A paloverde 4 ins. diam. bears S. 22  $\frac{3}{4}$ ° E. 87 lks. dist. marked T8SR17ES5BT.  
 A paloverde 4 ins. diam. bears S. 31  $\frac{1}{4}$ ° W. 96 lks. dist. marked T8SR17ES6BT  
 A paloverde 4 ins. diam. bears N. 32  $\frac{1}{4}$ ° W. 173 lks. dist. marked T7SR17ES31BT.  
 Land, mountainous.  
 Soil, sandy and stony; 4th. rate.  
 No timber.  
 Undergrowth, paloverde and greasewood.  
 Mountainous land or land covered with dense undergrowth 79.34 chains.  
 The course of this half mile is S. 89° 55' E. and the distance is 40.08 chains.

East bet. secs. 5 and 32.  
 Over rolling mountains through dense brush.  
 39.75 A point 2 1/2 lks. S. of the old cor. a stone with marks nearly obliterated and accessories gone. I destroy this old cor. and in the same place re-establish it as follows;  
 Set a granite stone 18 x 12 x 10 ins. 12 ins. in the ground for  $\frac{1}{4}$  sec. cor. marked  $\frac{1}{4}$  on N. face; and raise a mound of stone 2 ft. base 1 1/2 ft. high N. of cor. Pits impracticable.  
 The course of this half mile is N. 89° 42' E. and the distance is 39.75 chains.  
 Thence from  $\frac{1}{4}$  sec. cor. *Run East*  
 25.30 Cross wash 12 lks. wide course S. W.  
 38.00 Cross wash 18 lks. wide course S. W.  
 40.11 The old cor. of secs. 4, 5, 32 and 33, a stone poorly set with marks nearly obliterated and the remains of a mound of stone E. of stone. I destroy this old cor. and in the same place, re-establish it as follows;  
 Set a granite stone 18 x 6 x 6 ins. 12 ins. in the ground for cor. of secs. 4, 5, 32 and 33 marked with 4 notches on E. and 2 notches on W. edges; and raise a mound of stone 2 ft. base 1 1/2 ft. high, W. of cor. Pits impracticable.  
 Land, mountainous.  
 Soil, rocky; 4th. rate.  
 No timber.  
 Undergrowth, paloverde and greasewood.  
 Mountainous land and land covered with dense undergrowth 79.86 chains.

September 30, 1905.

6  
BOOK

Chains.  
1896

October 1: At 7h. 00m. a.m. / 1m.t, I set off 32° 46' N. on the lat. arc; 3° 01 1/2' S. on the dec'l. arc; and determine a meridian with the solar at the cor. of secs. 4, 5, 32 and 33, Thence I run. East bet. secs. 4 and 33. Over broken country through dense brush. Cross wash 20 lks. wide course N. W. 6.50 Cross same wash course S. W. 33.00 Cross same wash course N. W. 34.50 Cross same wash course S. W. 35.00 A point 1 lk. N. of the old 1/4 sec. cor. a granite stone with marks nearly obliterated, poorly set and with accessories gone. I destroy this cor. and in the same place reestablish it as follows: Set a granite stone 20 x 10 x 6 ins. 15 ins. in the ground for 1/4 sec. cor. marked 1/4 on N. face; and raise a mound of stone 2 ft. base 1 1/2 ft. high N. of cor. Pits impracticable. The course of this half mile is S. 89° 59' E. and the distance is 39.95 chs. Thence from 1/4 sec. cor. *run East* 12.75 Cross wash 10 lks. wide course S. W. 39.09 A point 34 lks. N. of the old cor. A stone poorly set with marks nearly obliterated and accessories gone. I re-establish this cor. as follows and destroy the old cor.: Set a granite 18 x 10 x 6 ins. 12 ins. in the ground for cor. of secs. 3, 4, 33 and 34 marked with 3 notches on E. and W. edges; from which  
A paloverde 4 ins. diam. bears N. 48 3/4° E. 196 lks. dist. marked T7SR17ES34BT.  
A paloverde 4 ins. diam. bears S. 36 1/2° E. 194 lks. dist. marked T8SR17ES3BT.  
A paloverde 4 ins. diam. bears S. 80 3/4° W. 127 lks. dist. marked T8SR17ES4BT.  
A paloverde 4 ins. diam. bears N. 45 1/2° W. 354 lks. dist. marked T7SR17ES33BT.  
The course of this half mile is S. 89° 30' E. and the distance is 39.09 chains.  
Land, mountainous.  
Soil, stony; 3rd. rate.  
No timber.  
Undergrowth paloverde, greasewood and chella.  
Mountainous land or land covered with dense undergrowth 79.04 chains.

East bet. secs. 3 and 34. Ascending over rolling mountains through dense brush 39.85 A point 18 lks. N. of remains of old cor. a stone with marks nearly obliterated, poorly set, and accessories gone. I destroy the old cor. and in the same place re-establish it as follows: Set a granite 24 x 14 x 8 ins. 18 ins. in the ground for 1/4 sec. cor. marked 1/4 on N. face; from which  
A Paloverde 4 ins. diam. bears N. 48° E. 191 lks. dist. marked 1/4S34BT.  
A paloverde 4 ins. diam. bears S. 57 1/2° W. 175 lks. dist. marked 1/4S3BT.  
The course of this half mile is S. 89° 44' E. and the distance is 39.85 chains. Thence from 1/4 sec. cor. *East* 4.50 Cross wash 8 lks. wide course S. W. 21.10 Cross wash 90 lks. wide course S. 38.50 Cross wash 10 lks. wide course S. W. 39.75 A point 12 lks. N. of remains of old cor. a stone with marks nearly obliterated and an indication of a mound of stone E. of cor. I destroy this old cor. and in the same place re-establish it as follows: set a granite stone 18 x 10 x 4 ins. 12 ins. in the ground for cor. of secs. 2, 3, 34 and 35 marked with 2 notches on E. and 4 notches on W. edges; and raise a mound of stone 2 ft. base 1 1/2 ft. high W. of cor.  
Pits impracticable

## Resurvey of the south boundary of Tps. 7 S. Rg. 17 E.

Chains.

Pits impracticable.

The course of this half mile is S. 89° 50' E. and the distance is 39.75 chains.

Land, mountainous.

Soil, stony; 3rd. rate.

No timber.

Undergrowth, paloverde and cholla.

Mountainous land or land covered with dense undergrowth 79.60 chains.

October 1: At this cor. I set off 3° 08'S. on the dec'l. arc; and observe the sun on the meridian at noon, the resulting let. is 32° 46' N.

East bet. secs. 2 and 35.

Ascending rough W. slope of mountains.

39.28 A point 105 lks. S. of the old  $\frac{1}{4}$  sec. cor. a stone lying on top of ground with marks nearly obliterated and the remains of a mound of stone E. of cor. I destroy the old cor. and in the same place re-establish it as follows: Set a granite stone 18 x 8 x 4 ins. 12 ins. in the ground for  $\frac{1}{4}$  sec. cor. marked  $\frac{1}{4}$  on N. face; and raise a mound of stone 2 ft. base 1 1/2 ft. high N. of cor. Pits impracticable.

The course of this half mile is N. 88° 28' E. and the distance is 39.29 chains.

Thence from  $\frac{1}{4}$  sec. cor. *Run East*

9.10 Cross wash 10 lks. wide course S. W.

30.05 Cross wash 10 lks. wide course S. W.

39.20 A point 15 lks. S. of the old cor. a stone with marks nearly obliterated and the remains of a mound of stone E. of cor. I destroy the old cor. and in the same place re-establish it as follows:

Set a limestone 18 x 10 x 4 ins. 12 ins. in the ground for cor. of secs. 1, 2, 35 and 36 marked with 1 notch on E. and 5 notches on W. edges; and raise a mound of stone 2 ft. base 1 1/2 ft. high W. of cor. Pits. impracticable.

The course of this half mile is N. 89° 47' E. and the distance is 39.20 chains.

Land, mountainous.

Soil, stony; 4th. rate.

No timber.

Mountainous land 78.48 chains.

East bet. secs. 1 and 36.

Over rough rolling mountains.

0.35 Cross wash 15 lks. wide course S. W.

9.45 Cross wash 8 lks. wide course S. W.

23.70 Cross wash 10 lks wide course S.

38.95 A point 14 lks. N. of old  $\frac{1}{4}$  sec. cor. a stone poorly set with marks nearly obliterated and accessories gone. I destroy the old cor. and on the same place re-establish it as follows:

Set a granite stone 18 x 12 x 5 ins. 12 ins. in the ground for  $\frac{1}{4}$  sec. cor. marked  $\frac{1}{4}$  on N. face; and raise a mound of stone 2 ft. base 1 1/2 ft. high N. of cor. Pits impracticable.

The course of this half mile is S. 89° 48' E. and the distance is 38.95 chains.

Thence from  $\frac{1}{4}$  sec. cor. *Run East*

1.50 Cross wash 25 lks. wide course S. W.

18.40 Cross wash 10 lks. wide course S.

38.90 A point 48 lks. S. of the cor. of Tps. 7 and 8 S. Rgs. 17 and 18 E. previously described.

The course of this half mile is N. 89° 18' E. and the distance is 38.90 chains.

Land mountainous.

Soil, stony; 4th. rate.

No timber.

Mountainous land 37.85 chains.

October 1, 1905.

Subdivision of Tp. 7S. Rg. 17 E.

Chains.

⑨

Survey commenced Oct. 2, 1905, and executed with a Young and Sons, light mountain transit, No. 7532 with 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.

The instrument was examined, tested on the true meridian at Phoenix, found correct, and was approved by the surveyor general for Arizona

I examine the adjustments of the transit and find them correct; 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 determined by observations on Polaris, I proceed as follows;

At the cor. of secs. 25, 30, 31 and 36 on the east bdy. of the township,; latitude  $32^{\circ} 47' 01''$  N., longitude,  $110^{\circ} 32' 13''$  W., I set off  $32^{\circ} 47' 01''$  N. on the lat. arc;  $3^{\circ} 34'$  S. on the dec'l. arc; and, at 5h. 00m. p. m. l. m. t., determine with the solar a meridian and mark a point thereof, on a stone firmly set in the ground 5 chains N. of the cor.

At 6h. 46m. p. m. by my watch, which has correct l. m. t. I observe Polaris at eastern elongation, in accordance with Manual of Instructions, and mark a point in the line thus determined, on a peg driven in the ground, 5 chs. N. of my station. October 2, 1905.

October 3: At 6h. 30m. a. m. l. m. t. I lay off the a azimuth of Polaris,  $1^{\circ} 26'$  to the west, and mark the meridian thus determined, by cutting a small groove in the stone set September 15, on which the meridian falls on the mark determined by the solar.

At 7h. 00m. a. m. l. m. t. I set off  $32^{\circ} 47'$  N. on the lat. arc;  $3^{\circ} 43'$  S. on the dec'l. arc; and mark a point in the meridian determined with the solar by a cross on the stone already set 5 chs. N. of my station; this mark coincides with the meridian established by the Polaris observation.

The solar apparatus, by p. m. and a. m. observations defines positions for meridians which coincide with the meridian established by the Polaris observation; therefore I conclude that the adjustments of the instrument are satisfactory.

The magnetic bearing of the true meridian, at 7h. 15m. a. m. is N.  $12^{\circ} 57'$  W.; the angle thus determined gives the mag. dec'l.  $12^{\circ} 57'$  E.

My resurvey has found the south and W. bdys. defective in alinement and measurement therefore I commence at the cor. of secs. 25, 30, 31 and 36 on the east bdy. of the township and run on a sectional correction line

West bet. secs. 25 and 36.

Ascending along rough S. slope of mountain through scattering brush..

1.00	Cross drain 8 lks. wide course S. W.
7.00	Cross drain 5 ks. wide course S. W.
31.65	Cross drain 5 lks. wide course S. W.
40.00	Set a slate stone 20 x 7 x 5 ins. in the ground for $\frac{1}{4}$ sec. cor. marked $\frac{1}{4}$ on N. face; and raise a mound of stone 2 ft. base 1 1/2 ft. high N. of cor. Pits impracticable.
41.15	Cross wash 8. lks. wide course S. and ascend
56.50	Top ridge bears N. E. and S. W. and descend along N. <sup>W</sup> slope.
79.00	Cross drain 5 lks. wide course N.
80.00	Set a granite stone 18 x 10 x 8 ins. 12 ins. in the ground for cor. of secs. 25, 26, 35 and 36 marked with 1 notch on S. and E. edges; and raise a mound of stone 2 ft. base 1 1/2 ft. high W. of cor. Pits impracticable. Land, mountainous.
	Soil, rocky; 4th. rate.
	No timber.
	Undergrowth, paloverde.

Chains.

Mountainous land 80.00 chains.

West bet. secs. 26 and 35.  
Descending along rough N. slope.

14.20 Cross wash 18 lks. wide course S. W. and ascend along S. slope.

40.00 Set a granite stone 18 x 8 x 5 ins. 12 ins. in the ground for 1/4 sec. cor. marked 1/4 on N. face; and raise a mound of stone 2 ft. base 1 1/2 ft. high N. of cor. Pits impracticable.

47.50 Thence descend ~~along N. slope~~  
Cross same wash noted above 20 lks. wide course N. W. and along N. slope ascending.

80.00 Set a granite stone 18 x 12 x 8 ins. 12 ins. in the ground for cor. of secs. 26, 27, 34 and 35 marked with 1 notch on S. and 2 notches on E. edges; and raise a mound of stone 2ft. base 1 1/2 ft. high W. of cor. Pits impracticable.

Land, mountainous.  
Soil, stony; 4th. rate.  
No timber.  
Good grass.

Mountainous land 80.00 chains.  
At this cor. I set off 3° 54 1/2' S. on the dec'l. arc; and observe the sun on the meridian at noon, the resulting lat. is 32° 47' N.

West bet. secs. 27 and 34.  
Descending over rolling mountainous land.

40.00 Set a granite stone 18 x 8 x 5 ins. 12 ins. in the ground for 1/4 sec. cor. marked 1/4 on N. face; and raise a mound of stone 2 ft. base 1 1/2 ft. high N. of cor. Pits impracticable.

66.50 Cross wash 40 lks. wide course S. W.

77.00 Along in wash 30 lks. wide course W.

80.00 Point for cor. falls in wash so at

82.00 Set a granite stone 18 x 10 x 5 ins. 12 ins. in the ground for witness cor. of secs. 27, 28, 33 and 34 marked with W C on S. E. face with 1 notch on S. and 3 notches on E. edges; and raise a mound of stone 2 ft. base 1 1/2 ft. high W. of cor. Pits impracticable.

Land, mountainous.  
Soil, stony and sandy; 2nd. and 3rd. rate.  
No timber.  
Mountainous land 80.00 chains.

West bet. secs. 28 and 33, from true point for cor.  
Along at S. edge of wash through dense brush.

1.50 leave wash 30 lks. wide course nearly W. and over level land.

12.500 Cross wash course N. W. brush becomes scattering and ascend N. E. slope of mountain.

34.00 Top ridge bears N. W. and S. E. and descend.

40.00 Point for 1/4 sec. cor. falls in drain 5 lks. wide course S. W. so at

40.50 Set a malpais stone 18 x 8 x 8 ins. 12 ins. in the ground for 1/4 sec. cor. marked W.C. 1/4 on N. face; and raise a mound of stone 2 ft. base 1 1/2 ft. high N. of cor. Pits impracticable.

65.60 Cross wash 20 lks. wide course N. W. and over broken land.

65.50 Same wash in bend course N.W. bears N. E.

80.00 Set a sandstone 18 x 10 x 4 ins. 12 ins. in the ground for cor. of secs. 28, 29 32 and 33 marked with 1 notch on S. and 4 notches on E. edges; and raise a mound of stone 2 ft. base 1 1/2 ft. high W. of cor. Pits impracticable.

Land, mountainous, broken and level.  
Soil, sandy and stony; 2nd. and 4th. rate.  
No timber.  
Undergrowth, paloverde and greasewood.

Mountainous land

chains.

Mountainous land or land covered with dense undergrowth  
80.00 chains.

(11)

October 3, 1905.

October 4: At 7h. 00m. a.m. l.m.t. I set off  $32^{\circ} 47' N.$  on the lat. arc;  $4^{\circ} 11' S.$  on the dec'l. arc; and determine a meridian with the solar at the cor. of sec. 28, 29, 32 and 33.

Thence I run

West bet. secs. 29 and 32.

Over nearly level land through dense brush.

1.50 Cross wash 20 lks. wide course S. W.

6.00 Same wash 30 lk s. wide course N. W.

15.30 Cross same wash 30 lks. wide course S. W.

36.00 Cross drain 5 lks. wide course S. W.

40.00 Set a granite stone 18 x 8 x 5 ins. 12 ins. in the ground for  $\frac{1}{4}$  sec. cor. marked  $\frac{1}{4}$  on N. face; from which  
a paloverde 4 ins. diam. bears N.  $72 \frac{1}{2}^{\circ} W.$  97  
lks. dist. marked  $\frac{1}{4} S29BT.$ a paloverde 4 ins. diam bears South 133 lks. dist.  
marked  $\frac{1}{4} S32BT.$ 

68.00 Ascend E. slope of mountain.

76.00 Top mountain and over mountain top through dense chella.

80.00 Set a granite stone 18 x 16 x 8 ins. 12 ins. in the ground for cor. of secs. 29, 30, 31 and 32 marked with 1 notch on S. and 5 notches on E. edges; and raise a mound of stone 2 ft. base 1 1/2 ft. high W. of cor. Pits impracticable.

Land, level and mountainous.

Soil, sandy and rocky; 3rd. and 4th. rate.

No timber.

Undergrowth, paloverde, greasewood and chella.

Mountainous land and land covered with dense undergrowth  
80.00 chains.

West bet. secs. 30 and 31.

Over mountain top through dense brush.

5.00 Descend over rolling mountains.

11.00 Cross drain 8 lks. wide course S. W.

36.50 Cross drain 5 lks. wide course S. W.

40.00 Set a granite stone 18 x 8 x 6 ins. 12 ins. in the ground for  $\frac{1}{4}$  sec. cor. marked  $\frac{1}{4}$  on N. face; and raise a mound of stone 2 ft. base 1 1/2 ft. high N. of cor. Pits impracticable.

50.40 Drain 5 lks. wide course S' W.

63.35 Cross drain 5 lks. wide course S. W.

67.30 Cross drain 5 lks. wide course S. W.

70.15 Cross drain 5 lks. wide course S. W.

72.10 Cross drain 5 lks. wide course S. W.

75.80 Intersect W. bdy. of Tp. 214 lks. North of the cor. of secs. 25, 30, 31 and 36 and set a granite stone 18 x 10 x 5 ins. 12 ins. in the ground for casing cor. of secs. 30 and 31 marked with 1 notch on S. and 5 notches on N. edges; and C C on E. face; and raise a mound of stone 2 ft. base 1 1/2 ft. high E. of cor. Pits impracticable.

Land, mountainous.

Soil, stony; 3rd. rate.

No timber.

Undergrowth, paloverde.

Mountainous land and land covered with dense undergrowth  
80.00 chains.

October 4: At this cor. I set off  $4^{\circ} 18' S.$  on the dec'l. arc; and observe the sun on the meridian at noon, the resulting lat. is  $32^{\circ} 47' N.$

From the cor. of secs. 25, 26 35 and 36 previously described I run

South bet. secs. 35 and 36.

Ascending steep N. slope of mountain.

6.00 Top ridge bears E. and W. and descend.

26.15 Cross drain 10 lks. wide course S. and cross and recross same to

Chains

- 34.40 Leave drainage course S. W.
  - 40.00 Set a sandstone 18 x 8 x 4 ins. 12 ins. in the ground for  $\frac{1}{4}$  sec. cor. marked  $\frac{1}{4}$  on N. face; and raise a mound of stone 2 ft. base 1 1/2 ft. high N. of cor. Pits impracticable.
  - 40.80 Cross wash 60 lks. wide course W. and ascend steep N. slope.
  - 71.50 Top ridge beras E. and W. and descend.
  - 80.51 Intersect S. bdy. of Tp. 236 lks. <sup>589 1/2 W.</sup> of the cor. of secs 1, 2, 35 and 36 I move the mound of stone S. of this cor. and at point of intersection set a sandstone 18 x 10 x 4 ins. 12 ins. in the ground for cor. of secs. 35 and 36 marked C C on N. with 1 groove on E. and 5 grooves on W. faces; and raise a mound of stone 2 ft. base 1 1/2 ft. high N. of cor. Pits impracticable.
- Land, mountainous.  
Soil, stony 3rd. rate.  
No timber.  
Good grass.  
Mountainous land 80.51 chains.

October 4, 1905.

October 5; At 7h. 00m. a.m. l.m.t., I set off  $32^{\circ} 47' W.$  on the lat. arc;  $4^{\circ} 34' S.$  on the dec'l. arc; and determine a meridian with the solar at the cor. of secs. 26, 27, 34 and 35.

Thence I run <sup>South</sup> bet. secs. 34 and 35.  
Over rolling mountains.

- 5.75 Cross wash 10 lks. wide course S. W.
  - 12.25 Cross wash 10 lks. wide course N. W.
  - 22.50 Cross wash 8 lks. wide course W.
  - 25.35 Cross wash 10 lks. wide course W.
  - 32.40 Cross wash 10 lks. wide course W.
  - 40.00 Set a sandstone 18 x 6 x 6 ins. 12 ins. in the ground for  $\frac{1}{4}$  sec. cor. marked  $\frac{1}{4}$  on W. face; and raise a mound of stone 2 ft. base 1 1/2 ft. high W. of cor. Pits impracticable.
  - 40.15 Cross wash 12 lks. wide course W.
  - 61.00 Cross wash 30 lks. wide course S. W.
  - 65.00 Cross wash 100 lks. wide course W.
  - 72.35 Cross wash 12 lks. wide course W.
  - 81.58 Intersect S. bdy. of Tp. 396 lks. <sup>N. 45° W.</sup> of the cor. of secs. 2 and 3. I change the mound of stone at this cor. to the S. of stone, and at my point of intersection set a granite stone 18 x 8 x 4 ins. 12 ins. in the ground for closing cor. of secs. 34 and 35 marked C C on N. with 2 grooves on E. and 4 grooves on W. faces; from which
    - A paloverde 7 ins. diam. bears N.  $10 1/2^{\circ} E.$  34 lks. dist marked CCT7SR17ES35BT.
    - A paloverde 6 ins. diam. bears N.  $10 1/2^{\circ} W.$  59 lks. dist. marked CCT7SR17ES34BT.
- At the  $\frac{1}{4}$  sec. cor. 40.00 chs. west I destroy the N. E. bearing tree.  
Land mountainous.  
Soil, sandy and stony; 2nd. and 3rd. rate.  
No timber.  
Mountainous land 81.58 chains.

From the true point for cor. of secs. 27, 28, 33 and 34 previously described I now run <sup>South</sup> bet. secs. 33 and 34.

- Over chopped broken land through dense brush.
- 3.50 Cross wash 40 lks. wide course W.
- 15.45 Cross wash 8 lks. wide course S. W.
- 20.40 Cross wash 25 lks. wide course W.
- 32.50 Cross wash 40 lks. wide course S. W.
- 40.00 Set a sandstone 18 x 6 x 6 ins. 12 ins. in the ground for  $\frac{1}{4}$  sec. cor. marked  $\frac{1}{4}$  on W. face; and raise a mound of stone 2 ft. base 1 1/2 ft. High W. of cor. Pits impracticable.

Chains.  
 53.50 Cross wash 10 lks. wide course S. W.  
 73.00 Cross wash 8 lks. wide course W.  
 81.09 Intersect S. bdy. of Tp. 4.51 chs. <sup>N85°36'W</sup> of cor. of secs. 3 and 4. I destroy bearing trees N. of cor., and at point of intersection set a granite stone 18 x 8 x 5 ins. 12 ins. in the ground for closing cor. of secs. 33 and 34 marked with CC on N. with 3 grooves on E. and W. faces; from which

- A paloverde 4 ins. diam. bears N. 26° E. 121 lks. dist. marked CCT7SR17ES34BT.
- A paloverde 4 ins. diam. bears N. 22 1/4° W. 242 lks. dist. marked CCT7SR17ES33BT.

Land, mountainous.  
 Soil, sandy and stony; 3rd. and 4th. rate.  
 No timber.  
 Undergrowth paloverde.  
 Mountainous land or land covered with dense undergrowth 81.09 chs.

October, 5: At this cor. I set off 4° 41' S. on the dec'l. arc; and observe the sun on the meridian at noon, the resulting lat. is 32° 46' N.

From the cor. of secs. 28, 29, 32 and 33, previously described I now run South bet. secs. 32 and 33.

Over chopped broken land through dense brush.  
 1.50 Cross drain 5 lks. wide course S. W.  
 13.00 Cross drain 8 lks. wide course W.  
 28.35 Cross wash 12 lks. wide course W.  
 40.00 Set a granite stone 18 x 8 x 6 ins. 12 ins. in the ground for 1/4 sec. cor. marked 1/4 on W. face; and raise a mound of stone 2 ft. base 1 1/2 ft. high W. of cor. Pits impracticable.

42.50 Cross drain 8 lks. wide course S. W.  
 46.00 Cross drain 5 lks. wide course S. W.  
 76.50 Cross wash 30 lks. wide course S. W.  
 79.00 Cross wash 30 lks. wide course S. E.

80.85 Intersect S. bdy. of Tp. 5.62 chs. W. of the cor. of secs. 4 and 5. I move the mound of stone S. of this cor., and at point of intersection set a granite stone 18 x 10 x 4 ins. 12 ins. in the ground for closing cor. of secs. 32 and 33 marked C C on N. with 4 grooves on E. and 2 grooves on W. faces; and raise a mound of stone 2 ft. base 1 1/2 ft. high N. of cor. Pits impracticable.

Land, mountainous.  
 Soil, stony and sandy; 3rd. and 4th. rate.  
 No timber.  
 Undergrowth, greasewood, paloverde and chella.  
 Mountainous land and land covered with dense undergrowth 80.85 chs.

From the cor. of secs. 29, 30, 31 and 32, previously described I now run South bet. secs. 31 and 32.

Over mountain top through dense brush.  
 3.00 Descend S. slope of mountain.  
 37.00 Cross wash 40 lks. wide course W.  
 40.00 Point for 1/4 sec. cor. falls in drain 5 lks. wide course N. W. so at

39.50 Set a granite stone 24 x 12 x 10 ins. 18 ins. in the ground for witness 1/4 sec. cor. marked W C 1/4 on W. face; and raise a mound of stone 2 ft. base 1 1/2 ft. high W. of cor. Pits impracticable.

47.50 Cross wash 10 lks. wide course W.  
 61.50 Cross wash 10 lks. wide course W.  
 68.50 Cross wash 8 lks. wide course W.

81.04 Intersect S. bdy. of Tp. 5.90 chs. <sup>N89°55'W</sup> of cor. of secs. 5 and 6. I destroy the bearing trees N. of the line, and at my point of intersection set a granite stone 18 x 8 x 6 ins. 12 ins. in the ground for closing cor. of secs. 31 and 32. marked CC on N. with 5 grooves on E. and 1 groove on W. faces; and raise a mound of stone 2 ft. base 1 1/2 ft. high N. of cor. Pits impracticable.

Chains.

Land, mountainous.  
Soil, sandy and rocky; 3rd. and 4th. rate.  
No timber.  
Undergrowth, paloverde and greasewood.  
Mountainous land or land covered with dense undergrowth  
81.04 chains.

October 5, 1905.

October 6: At 7h. 00m. a.m. l.m.t., I set off  $32^{\circ} 47' N.$  on the lat. arc;  $4^{\circ} 57' S.$  on the dec'l. arc; and determine a meridian with the solar at the cor. of secs. 27, 28, 33 and 34.

Note: As the east half of this Tp. is mountainous and rocky and contains no agricultural land I therefore leave it unsubdivided and subdivide only the west half of the township.

From the cor. of secs. 27, 28, 33 and 34, previously described I now run

$N.0^{\circ} 02' W.$  bet. secs. 27 and 28, from true point for cor.

Over rolling mountains through dense brush.

0.10 Center wash 25 lk s. wide course W.  
1.18 Set a granite stone 18 x 10 x 4 ins. 12 ins. in the ground for witness cor. of secs. 27, 28 33 and 34, marked WC on S. E. with 1 notch on S. and 3 notches on E. edges; from which

A mesquite 4 ins. diam. bears  $S.11 1/2^{\circ} E. 89$  lks; dist. marked WCT7SR17ES34BT.

A paloverde 4 ins. diam. bears  $S. 61 1/2^{\circ} W. 55$  lks. dist. marked WCT7SR17ES35BT.

No other trees available. Raise a mound of stone 2 ft. base  $1 1/2$  ft. high W. of cor. Pits impracticable.

7.10 Cross wash 10 lks. wide course W.  
15.00 Cross wash 10 lks. wide course N. W.  
23.25 Cross wash 15 lks. wide course W.  
28.50 Cross wash 8 lks. wide course W.  
38.50 Cross wash 8 lks. wide course N. W.  
40.00 Set a granite stone 18 x 10 x 4 ins. 12 ins. in the

ground for  $1/4$  sec. cor. marked  $1/4$  on W. face; from which

A paloverde 4 ins. diam. bears  $N. 80^{\circ} E. 134$  lks. dist marked  $1/4$ 27BT.

A paloverde 4 ins. diam. bears  $S. 12 1/2^{\circ} W. 36$  lk lks. dist. marked  $1/4$ 28BT.

47.00 Cross wash 5 lk s; wide course N.:W.  
53.70 Cross wash 8 lks. wide course N. W.  
61.40 Cross wash 30 lks. wide course N. W.  
62.50 Cross wash 10 lks. wide course W.  
65.00 Cross wash 75 lks. wide course S. W.  
80.00 Set a granite stone 18 x 10 x 8 ins. 12 ins. in the

ground for cor. of secs. 21, 22, 27 and 28 marked with 2 notches on S. and 3 notches on E. edges; and raise a mound of stone 2 ft. base  $1 1/2$  ft. high W. of cor. Pits impracticable.

Land, mountainous.  
Soil, sandy and stony 2nd. and 4th. rate.  
No timber.  
Undergrowth paloverde.  
Mountainous land and land covered with dense undergrowth  
80.00 chains.

$N.0^{\circ} 02' W.$  bet. secs. 21 and 22.

Over rolling mountainous land, through dense brush.

11.80 Cross wash 10 lks. wide course W.  
16.35 Cross wash 8 lks; wide course W.  
26.00 Cross wash 20 lk s. wide course N. W.  
28.40 Cross wash 10 lks. wide course S. W.  
38.00 Cross wash 30 lks. wide course W.  
40.00 Set a granite stone 18 x 8 x 6 ins. 12 ins. in the

ground for  $1/4$  sec. cor. marked  $1/4$  on W. face; and raise a mound of stone 2 ft. base  $1 1/2$  ft. high W. of cor. Pits impracticable.

48.00 Cross wash 15 lks. wide course N. W.  
60.00

Chains.

63.50 Cross wash 15 lk s. wide course N. W.  
 79.80 Cross wash 18 lk s. wide course N. W.  
 80.00 Set a granite stone 18 x 8 x 6 ins. 12 ins. in the ground for. cor. of secs. 15, 16, 21 and 22 marked 7S on N. E. and 17 E. on S. E. faces; with 3 notches on S. and E. edges; and raise a mound of stone 2 ft. base 1 1/2 ft. high W. of cor. Pits impracticable.  
 Land, mountainous.  
 Soil, stony 3rd. and 4th. rate.  
 No timber.  
 Undergrowth, pal overde and greasewood.  
 Mountainous land and land covered with dense undergrowth 80.00 chains.  
 October 6; at this cor. I set off 5° 04' S. on the dec'l. arc; and observe the sun on the meridian at noon, the resulting lat. is 32° 49' N.

N. 0° 02' W. bet. secs. 15 and 16.  
 Over rolling mountainous land through dense brush.  
 4.50 Crossdrain 5 lks. wide course N. W.  
 11.60 Cross wash 15 lks. wide course N. W.  
 15.40 Cross wash 20 lks. wide course S. W.  
 29.65 Cross wash 90 lks. wide course N. W.  
 37.75 Cross wash 12 lks. wide course W.  
 40.00 Set a granite stone 18 x 12 x 8 ins. 12 ins. in the ground for 1/4 sec. cor. marked 1/4 on W. face; and raise a mound of stone 2 ft. base 1 1/2 ft. high W. of cor. Pits impracticable.  
 67.00 Cross wash 35 lks. wide course N. W.  
 71.75 Cross wash 10 lks. wide course S. W.  
 80.00 Set a limestone 18 x 10 x 8 ins. 12 ins. in the ground for cor. of secs. 9, 10, 15 and 16 marked with 4 notches on S. and 3 notches on E. edges; and raise a mound of stone 2 ft. base 1 1/2 ft. high W. of cor. Pits impracticable.  
 Land, mountainous.  
 Soil; stony 3rd. rate.  
 No timber.  
 Undergrowth paloverde.  
 Mountainous land and land covered with dense undergrowth 80.00 chains.

October 6, 1905.

October 7, 1905: At 7h. 00m. a.m. 1.m.t., I set off 32° 49 1/2' N. on the lat. arc; 5° 20' S. on the dec'l. arc; and determine a meridian with the solar at the cor. of secs. 9, 10, 15 and 16.  
 Thence I run  
 N. 0° 02' W. bet. secs. 9 and 10  
~~ascending~~ over rolling mountains, through dense brush.  
 3.75 Cross wash 5 lks. wide course N. E.  
 15.55 Cross wash 5 lks. wide course N. W.  
 21.00 Cross wash 20 lks. wide course N. W.  
 32.10 Cross wash 10 lks. wide course N. W.  
 36.00 Cross wash 20 lks. wide course N. W.  
 40.00 Set a limestone 24 x 12 x 8 ins. 18 ins. in the ground for 1/4 sec. cor. marked 1/4 on W. face; and raise a mound of stone 2 ft. base 1 1/2 ft. high W. of cor. Pits impracticable.  
 47.65 Cross wash 15 lks. wide course N. W.  
 54.45 Cross wash 15 lks. wide course N. W.  
 59.20 Cross wash 10 lks. wide course W.  
 71.75 Cross wash 75 lks. wide course N. W.  
 77.00 ~~cross wash~~ 8 lks. wide course N. W.  
 80.00 Set a granite stone 20 x 14 x 12 ins. in the ground for cor. of secs. 3, 4, 9 and 10 marked with 5 notches on S. and 3 notches on E. edges; and raise a mound of stone 2 ft. base 1 1/2 ft. high W. of cor. Pits impracticable.  
 Land, mountainous.  
 Soil, stony; 3rd. rate.  
 No timber.

chains.

Undergrowth, paloverde.  
 Mountainous land and land covered with dense undergrowth  
 80.00 chains.  
 October 7; At this cor. I set off 5° 27' S. on the dec'l. arc; and observe the sun on the meridian at noon, the resulting lat. is 32° 50 1/2' N.

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N. 0° 02' W. on a random line bet. secs. 3 and 4.  
 Set temp. 1/4 sec. cor.  
 40.00 Intersect N. bdy. of Tp. 8 lks. E. of the cor. of secs.  
 78.80 3, 4, 33 and 34.  
 Thence I run  
 S. 0° 05' E. on a true line bet. secs. 3 and 4.  
 Descending S. slope of mountains  
 18.90 Cross fence bears N. E. and S. W. and over level bottom  
 land through dense brush.  
 19.10 Cross irrigating ditch 4 lks. wide course W.  
 24.10 Cross fence bears N. E. and S. W.  
 24.25 Cross road bears N. E. and S. W.  
 25.40 Cross Arivaipa Creek 30 lks. wide course W.  
 27.45 Cross irrigating ditch 3 lks. wide course W. and ascend  
 rough N. slope of mountain, leave brush.  
 34.26 A point whence E. Lathamby's. house bears N. 82° 30' W.  
 6.85 chs. dist.  
 H. Higgins' house bears N. 40° 15' W. 23.84 chs. dist.  
 38.80 Set a granite stone 18 x 10 x 5 ins. 12 ins. in the ground  
 for 1/4 sec. cor. marked 1/4 on W. face; and raise a mound of  
 stone 2 ft. base 1 1/2 ft. high W. of cor. Pits imprac-  
 ticable. Thence along W. slope mountain.  
 48.75 Cross wash 20 lks. wide course N. W.  
 59.80 Cross wash 25 lks. wide course N. W.  
 71.90 Cross wash 15 lks. wide course W.  
 73.65 Cross wash 8 lks. wide course N. W.  
 78.80 The cor. of secs. 3, 4, 9 and 10.  
 Land, mountainous and level.  
 Soil, loamy and rocky; 1st. and 4th. rate.  
 No timber.  
 Undergrowth, mesquite and greasewood.  
 Mountainous land and land covered with dense undergrowth  
 78.80 chains.

October 7, 1905.

X

October 8; At 7h. 00m. a.m. l.m.t., I set off 32° 47' N. on the lat. arc; 5° 43' S. on the dec'l. arc; and determine a meridian at the cor. of secs. 28, 29, 32 and 33  
 Thence I run  
 N. 0° 02' W. bet. secs. 28 and 29.  
 Over nearly level land through dense brush.  
 2.50 Cross wash 20 lks. wide course W.  
 5.40 Cross drain 5 lks. wide course S. W.  
 17.00 Cross wash 50 lks. wide course W.  
 19.50 Cross wash 75 lks. wide course W.  
 26.50 Cross wash 40 lks. wide course W.  
 40.00 Set a malpais stone 18 x 12 x 5 ins. 12 ins. in the  
 ground for 1/4 sec. cor. marked 1/4 on W. face; from which  
 A paloverde 4 ins. diam. bears N. 40 1/2° E. 80  
 lks. dist. marked 1/4 S28BT.  
 A paloverde 6 ins. diam. bears S. 89 1/4° W. 195  
 lks. dist. marked 1/4 S29BT.  
 49.35 Cross wash 15 lks. wide course N. W. and ascend S. W.  
 slope of mountain.  
 53.70 Cross wash 10 lks. wide course N. W.  
 58.25 Cross drain 12 lks. wide course S. W.  
 63.75 Cross drain 10 lks. wide course S. W. *ascend*  
 76.00 Top of mountain and descend N. slope.  
 80.00 Set a malpais stone 18 x 16 x 6 ins. 12 ins. in the  
 ground for cor. of secs. 20, 21 28 and 29 marked with  
 2 notches on S. and 4 notches on E. edges; and raise  
 a mound of stone 2 ft. base 1 1/2 ft. high W. of cor.  
 Pits impracticable.  
 Land, mountainous and level.  
 Soil, sandy and stony; 2nd. and 4th. rate.

chains.

No timber.  
Undergrowth paloverde and greasewood.  
Mountainous land and land covered with dense undergrowth  
80.00 chains.

*East*

~~West~~ on a random line bet. secs. 21 and 28.  
40.00 Set temp.  $\frac{1}{4}$  sec. cor.  
80.04 Intersect N. and S. line 2 lks. N. of the cor. of secs.  
21, 22, 27 and 28.  
Thence I run  
N.  $89^{\circ} 59'$  W. bet. secs. 21 and 28 on a true line.  
Over rolling mountainous land through dense brush.  
40.02 Point for  $\frac{1}{4}$  sec. cor. falls in drain 5 lks. wide course S  
so at  
40.50 Set a granite stone 18 x 7 x 5 ins. 12 ins. in the ground  
for witness  $\frac{1}{4}$  sec. cor. marked W C  $\frac{1}{4}$  on N. face; and  
raise a mound of stone 2 ft. base 1  $\frac{1}{2}$  ft. high N. of  
cor. Pits impracticable.  
48.25 Cross wash 12 lks. wide course N. W. *ascending*  
80.04 The cor. of secs. 20, 21, 28 and 29.  
Land, mountainous.  
Soil, sandy and stony; 3rd. and 4th. rate.  
No timber.  
Undergrowth, paloverde.  
Mountainous land and land covered with dense undergrowth  
80.04 chains.  
October 8; At this cor. I set off  $5^{\circ} 50'$  S. on the dec'l.  
arc; and observe the sun on the meridian at noon, the  
resulting lat. is  $32^{\circ} 48'$  N. ✓

N.  $0^{\circ} 02'$  W. bet. secs. 20 and 21.  
Descending N. slope of mountain.  
12.20 Cross wash 12 lks. wide course W.  
20.34 Cross wash 20 lks. wide course N. W. and over rolling  
mountainous land.  
32.25 Cross drain 5 lks. wide course N. W.  
40.00 Set a quartzite stone 18 x 6 x 6 ins. 12 ins. in the  
ground for  $\frac{1}{4}$  sec. cor. marked  $\frac{1}{4}$  on W. face; and raise  
a mound of stone 2 ft. base 1  $\frac{1}{2}$  ft. high W. of cor.  
Pits impracticable.  
45.90 Cross wash 20 lks. wide course N. W.  
52.50 Cross wash 20 lks. wide course N. W.  
61.50 Cross wash 100 lks. wide course N. W.  
69.70 Cross wash 8 lks. wide course S. W.  
71.25 Cross wash 5 lks. wide course S. W.  
78.00 Cross wash 15 lks. wide course S. W.  
80.00 Set a granite stone 18 x 14 x 8 ins. 12 ins. in the  
ground for cor. of secs. 16, 17, 20 and 21 marked with  
3 notches on S. and 4 notches on E. edges; and raise  
a mound of stone 2 ft. base 1  $\frac{1}{2}$  ft. high W. of cor.  
Pits impracticable.  
Land mountainous.  
Soil, stony and sandy; 2nd. and 4th. rate.  
No timber.  
Undergrowth paloverde.  
Mountainous land and land covered with dense undergrowth  
80.00 chains.

S.  $89^{\circ} 59'$  E. on a random line bet. secs. 16 and 21.  
40.00 Set temp.  $\frac{1}{4}$  sec. cor. of cor.  
80.05 Intersect N. and S. line 5 lks. S. of cor. of secs. 15, 16, 21  
and 22.  
Thence I run  
S.  $89^{\circ} 59'$  W. on a true line bet. secs. 16 and 21.  
~~Descending~~ over rolling mountainous land through dense  
brush.  
11.90 Cross wash 25 lks. wide course N. W.  
18.70 Cross wash 20 lks. wide course N. W.  
35.50 Cross wash 20 lks. wide course N. W.  
40.025 Set a malpais stone 18 x 12 x 8 ins. 12 ins. in the ground  
for  $\frac{1}{4}$  sec. cor. marked  $\frac{1}{4}$  on N. face; and raise a mound

chains.

of stone 2 ft. base 1 1/2 ft. high N. of cor. Pits impracticable.

- 51.65 Cross wash 25 lks. wide course N. W.
- 69.75 Cross wash 30 lks. wide course S. W.
- 77.00 Cross same wash 30 lks. wide course. SW. bears S. E.
- 80.05 The cor. of secs. 16, 17, 20 and 21.

Land, mountainous.  
 Soil, sandy and stony; 2nd. and 4th. rate.  
 No timber.  
 Undergrowth paloverde and greasewood.  
 Mountainous land and land covered with dense undergrowth  
 80.05 chains.

October 8, 1905.

October 9: At 7h. 00m. a.m. l.m.t., I set off 32° 49' N. on the lat. arc; 6° 06' S. on the dec'l. arc; and determine a meridian with the solar at the cor. of secs. 16, 17, 20 and 21.

Thence I run

N. 0° 02' W. bet. secs. 16 and 17

Over rolling mountainous land through dense brush.

- 40.00 Set a granite stone 20 x 10 x 8 ins. 15 ins. in the ground for 1/4 sec. cor. marked 1/4 on W. face; and raise a mound of stone 2 ft. base 1 1/2 ft. high W. of cor. Pits impracticable.

56.50 Cross wash 20 lks. wide course N. W.

68.30 Cross wash 30 lks. wide course N. W.

- 80.00 Set a granite stone 18 x 12 x 6 ins. 12 ins. in the ground for. cor. of secs. 8, 9, 16 and 17, marked with 4 notches on S. and E. edges; and raise a mound of stone 2 ft. base 1 1/2 ft. high W. of cor. Pits impracticable.

Land mountainous.

Soil, stony; 3rd. rate.

No timber.

Undergrowth, paloverde and greasewood.

Mountainous land and land covered with dense undergrowth  
80.00 chains.

N. 89° 59' E. on a random line bet. secs. 9 and 16.

- 40.00 Set temp. 1/4 sec. cor.

- 80.18 Intersect N. and S. line 30 lks. N. of the cor. of secs. 9, 10, 15 and 16.

Thence I run

N. 89° 48' W. on a true line bet. secs. 9 and 16.

Over rolling mountainous land through dense brush.

- 12.70 Cross drain 5 lks. wide course S. W.

- 24.20 Cross wash 10 lks. wide course S. W.

- 34.45 Cross wash 8 lks. wide course S. W.

- 40.09 Set a sandstone 18 x 10 x 8 ins. 12 ins. in the ground for 1/4 sec. cor. marked 1/4 on N. face; and raise a mound of stone 2 ft. base 1 1/2 ft. high N. of cor. Pits impracticable.

- 73.90 Cross wash 40 lks. wide course N. W.

- 80.18 The cor. of secs. 8, 9, 16 and 17.

Land, mountainous.

Soil, stony; 4th. rate.

No timber.

Undergrowth, paloverde and greasewood.

Mountainous land and land covered with dense undergrowth  
80.18 chains.

October 9: At this cor. I set off 6° 13' S. on the dec'l. arc; and observe the sun on the meridian at noon, the resulting lat. is 32° 49 1/2' N. ✓

N. 0° 02' W. bet. secs. 8 and 9.

~~Running~~ over rolling mountainous land through dense brush.

- 16.30 Cross wash 25 lks. wide course N. W.

- 21.00 Cross wash 10 lks. wide course N. W.

- 28.80 Cross wash 15 lks. wide course W.

- 34.85 Cross wash 20 lks. wide course S. W.

Chains.	
40.00	Set a limestone 18 x 10 x 7 ins. 12 ins. in the ground for $\frac{1}{4}$ sec. cor. marked $\frac{1}{4}$ on W. face; and raise a mound of stone 2 ft. base 1 1/2 ft. high W. of cor. Pits impracticable.
43.20	Cross wash 5 lks. wide course N. W.
56.25	Cross Arivaipa creek 50 lks. wide course W. and over bottom land through dense brush.
56.70	Cross road bears E. and W.
56.85	Cross fence bears E. and W.
58.90	Cross irrigating ditch 3 lks. wide course W.
60.00	Point whence Indian hut bears E. 236 lks. dist. and <del>across</del> over rolling mountains.
80.00	Set a sandstone 18 x 8 x 6 ins. 12 ins. in the ground for cor. of secs. 4, 5, 8 and 9 marked with 5 notches on S. and 4 notches on E. edges; and raise a mound of stone 2 ft. base 1 1/2 ft. high W. of cor. Pits impracticable. Land, mountainous and level. Soil, sandy and stony; 1st. and 3rd. rate. No timber. Undergrowth, paloverde, greasewood and buck brush. Mountainous land and land covered with dense undergrowth 80.00 chains.
	October 9, 1905.
	October 10: At 7h. 00m. a.m. l.m.t., I set off $32^{\circ} 50' 1/2'$ N. on the lat. arc; $6^{\circ} 28' 1/2'$ S on the dec'l. arc; and determine a meridian with the solar at the cor. of secs. 4, 5, 8 and 9. Thence I run S. $89^{\circ} 48'$ E. on a random line bet. secs. 4 and 9.
40.00	Set temp. $\frac{1}{4}$ sec. cor.
80.14	Intersect N. and S. line, 9 lks. S. of the cor. of secs. 3, 4, 9 and 10 Thence I run N. $89^{\circ} 52'$ W. on a true line bet. secs. 4 and 9. Over rolling mountainous land through dense brush.
7.60	Cross wash 8 lks. wide course N. W.
31.15	Cross wash 8 lks. wide course N. W.
40.07	Set a conglomerate stone 24 x 8 x 6 ins. 18 ins. in the ground for $\frac{1}{4}$ sec. cor. marked $\frac{1}{4}$ on N. face; and raise a mound of stone 2 ft. base 1 1/2 ft. high N. of cor. Pits impracticable.
42.60	Cross wash 75 lks. wide course N.
63.35	Cross road bears N. E. and S. W.
65.00	Cross Arivaipa Creek 100 lks. wide course S. W. and <del>across</del> over rolling mountains.
71.00	Cross wash 12 lks. wide course S.
74.00	Cross wash 15 lks. wide course S.
80.14	The cor. of secs. 4, 5, 8 and 9. Land, mountainous. Soil, stony and sandy; 3rd. and 4th. rate. No timber. Undergrowth, paloverde and greasewood. Mountainous land and land covered with dense undergrowth 80.14 chains. October 10; at this cor. I set off $6^{\circ} 36'$ S. on the dec'l. arc; and observe the sun on the meridian at noon, the resulting lat. is $32^{\circ} 50' 1/2'$ N.
	N. $0^{\circ} 02'$ W. on a random line bet. secs. 4 and 5.
40.00	Set temp. $\frac{1}{4}$ sec. cor.
78.34	Intersect N. bdy. of Tp. 7 lks. W. of the cor. of secs. 4, 5, 32. and 33. Thence I run S. $0^{\circ} 01'$ W. on a true line bet. secs. 4 and 5. <del>Descending</del> over rolling mountains.
10.75	Cross wash 10 lks. wide course S. E.
38.34	Set a sandstone 18 x 12 x 4 ins. 12 ins. in the ground for $\frac{1}{4}$ sec. cor. marked $\frac{1}{4}$ on W. face; and raise a mound of stone 2 ft. base 1 1/2 ft. high W. of cor. Pits impracticable.

Chains.	
50.10	Cross wash 5 lks. wide course S. W.
71.50	Cross wash 5 lks. wide course S. W.
78.34	The cor. of secs. 4, 5, 8 and 9. Land, mountainous. Soil, stony; 4th. rate. No timber. Undergrowth, paloverde. Mountainous land 78.34 chains.
	October 10, 1905.
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	October 11: At 7h. 00' a.m. l.m.t. I set off $32^{\circ} 47'$ N. on the lat. arc; $6^{\circ} 51 \frac{1}{2}'$ S. on the dec'l. arc; and determine a meridian with the solar at the cor. of secs. 29, 30, 31 and 32. Thence I run N. $0^{\circ} 03'$ W. bet. secs. 29 and 30 Over top of mountain through dense brush.
0.50	Descend N. slope of mountain.
5.50	Cross wash 5 lks. wide course N. W.
11.00	Cross wash 200 lks. wide course W. and over rolling mountainous land.
15.00	Cross wash 1.50 lks. wide course W.
23.50	Cross wash 15 lks. wide course N. W.
36.50	Cross wash 15 lks. wide course N. W.
40.00	Set a granite stone 18 x 6 x 6 ins. 12 ins. in the ground for $\frac{1}{4}$ sec. cor. marked $\frac{1}{4}$ on W. face; and raise a mound of stone 2 ft. base 1 $\frac{1}{2}$ ft. high W. of cor. Pits impracticable.
46.50	Cross wash 18 lks. wide course N. W.
80.00	Set a granite stone 28 x 16 x 8 ins. 21 ins. in the ground for cor. of secs. 19, 20, 29 and 30 marked with 2 notches on S. and 5 notches on E. edges; and raise a mound of stone 2 ft. base 1 $\frac{1}{2}$ ft. high W. of cor. Pits impracticable. Land, mountainous. Soil, stony 4th. rate. No timber. Undergrowth, paloverde and greasewood. Mountainous land and land covered with dense undergrowth 80.00 chains.
	<hr/>
	East on a random line bet. secs. 20 and 29.
40.00	Set temp. $\frac{1}{4}$ sec. cor.
79.97	Intersect N. and S. line. 16 lks. S. of the cor. of secs. 20, 21, 28 and 29 Thence I run S. $89^{\circ} 53'$ W. on a true line bet. secs. 20 and 29. Over rolling mountainous land through dense brush.
20.60	Cross wash 10 lks. wide course S.
39.985	Set a granite 18 x 8 x 5 ins. 12 ins. in the ground for $\frac{1}{4}$ sec. cor. marked $\frac{1}{4}$ on N. face; and raise a mound of stone 2 ft. base 1 $\frac{1}{2}$ ft. high N. of cor. Pits impracticable.
70.00	Cross wash 12 lks. wide course S. W.
74.80	Cross wash 8 lks. wide course S. W.
79.97	The cor. of secs. 19, 20, 29 and 30. Land, mountainous. Soil, stony; 4th. rate. No timber. Undergrowth paloverde and greasewood. Mountainous land and land covered with dense undergrowth 79.97 chains. October 11; at this cor. I set off $6^{\circ} 58 \frac{1}{2}'$ S. on the dec'l. arc; and observe the sun on the meridian at noon the resulting lat. is $32^{\circ} 48'$ N. ✓
	<hr/>
	West bet. secs. 19 and 30. Over rolling mountains through dense brush.
6.80	Cross drain 5 lks. wide course S. W.
26.60	Cross wash 10 lks. wide course N. W.
40.00	Set a slate stone 36 x 12 x 4 ins. 27 ins. in the

Chains.

66.40  
74.20

ground for  $\frac{1}{4}$  sec. cor. marked  $\frac{1}{4}$  on N. face; dig pits 18 x 18 x 12 ins. E. and W. of cor. 3 ft. dist; and raise a mound of earth 3 1/2 ft. base 1 1/2 ft. high N. of cor. P  
Cross wash 15 lks. wide course S. W.  
Intersect W. bdy. of Tp. 105 lks. N. of the cor. of secs. 24 and 25 and set a quartzite stone 24 x 14 x 7 ins. 18 ins. in the ground for Closing cor. of secs. 19 and 30 marked C C on E. with 2 grooves on S. and 4 grooves on N. faces; and raise a mound of stone 2 ft. base 1 1/2 ft. E. of cor. Pits impracticable.  
Land, mountainous.  
Soil, sandy; 2nd. rate.  
No timber.  
Undergrowth, greasewood.  
Mountainous land and land covered with dense undergrowth  
74.20 chains.

*high*

October 11, 1905.

October 12: At 7h. 00m. a.m. l.m.t., I set off 32° 48' N. on the lat. arc; 7° 14' S. on the dec'l. arc; and determine a meridian with the solar at the cor. of secs. 19, 20, 29 and 30.

3.15  
5.30  
14.50  
16.70  
23.85  
30.75  
34.25  
39.30  
40.00

Thence I run  
N. 0° 03' W. bet. secs. 19 and 20.  
Over chopped broken land through dense brush.  
Cross wash 20 lks. wide course N. W.  
Cross drain 5 lks. wide course S. W.  
Cross wash 10 lks. wide course N. W.  
Cross drain 5 lks. wide course N. W.  
Cross wash 20 lks. wide course N. W.  
Cross wash 25 lks. wide course N. W.  
Cross wash 10 lks. wide course S. W.  
Cross wash 15 lks. wide course W.  
Set a quartzite stone 18 x 8 x 6 ins. 12 ins. in the ground for  $\frac{1}{4}$  sec. cor. marked  $\frac{1}{4}$  on W. face; and raise a mound of stone 2 ft. base 1 1/2 ft. high W. of cor. P  
Pits impracticable.

46.50  
61.40  
70.30  
77.35  
80.00

Cross wash 10 lks. wide course N. W.  
Cross wash 15 lks. wide course N. W.  
Cross drain 8 lks. wide course S. W.  
Cross wash 5 lks. wide course N. W.  
Set a limestone 18 x 8 x 5 ins. 12 ins. in the ground for cor. of secs. 17, 18, 19 and 20 marked with 3 notches on S. and 5 notches on E. edges; and raise a mound of stone 2 ft. base 1 1/2 ft. high W. of cor. Pits impracticable.  
Land, mountainous.  
Soil, sandy and stony; 3rd. and 4th. rate.  
No timber.  
Undergrowth paloverde and greasewood.  
Mountainous land and land covered with dense undergrowth  
80.00 chains.

40100  
8 0.12

N. 89° 53' E. on a random line bet. secs. 17 and 20.  
Set temp.  $\frac{1}{4}$  sec. cor.  
Intersect N. and S. line 12 lks. S. of the cor. of secs. 16, 17, 20 and 21.

2.60  
10.90  
25.70  
31.80  
40.06

Thence I run  
S. 89° 48' W. on a true line bet. secs. 17 and 20.  
Over rolling mountainous land through dense brush.  
Cross wash 20 lks. wide course N. W.  
Cross wash 10 lks. wide course N. W.  
Cross wash 10 lks. wide course N. W.  
Cross wash 8 lks. wide course N. W.  
Set a quartzite stone 18 x 8 x 8 ins. 12 ins. in the ground for  $\frac{1}{4}$  sec. cor. marked  $\frac{1}{4}$  on N. face; and raise a mound of stone 2 ft. base 1 1/2 ft. high N. of cor. Pits impracticable.

49.20  
53.50  
55.35

Cross drain 8 lks. wide course S. W.  
Cross drain 5 lks. wide course S. W.  
Cross wash 40 lks. wide course N. W.

chains.

67.35 Cross wash 10 lks. wide course N. W.  
80.12 The cor. of secs. 17, 18, 19 and 20.  
Land, mountainous.  
Soil, stony; 2nd. and 3rd. rate.  
No timber.  
Undergrowth, paloverde and greasewood.  
Mountainous land and land covered with dense undergrowth  
80.12 chains.  
October 12: At this cor. I set off 7° 21'S. on the dec'l. arc; and observe the sun on the meridian at noon the resulting lat. is 32° 49' N. ✓

West bet. secs. 18 and 19.  
Over rolling mountainous land through dense brush.  
8.00 Cross drain 4 lks. wide course N. W.  
14.00 Cross drain 5 lks. wide course N. W.  
19.75 Cross wash 10 lks. wide course N. W.  
32.40 Cross wash 15 lks. wide course S. W.  
35.00 Cross wash 15 lks. wide course S. W.  
37.00 Cross drain 5 lks. wide course S. W.  
40.00 Set a limestone 18 x 10 x 3 ins. 12 ins. in the ground for 1/4 sec. cor. marked 1/4 on N. face from which  
A paloverde 6 ins. diam. bears S. 71 1/4° E. 102 lks. dist. marked 1/4 S18BT.  
A paloverde 4 ins. diam. bears N. 58 1/2° W. 46 lks. dist. marked 1/4 S18BT.

44.50 Cross wash 15 lks. wide course N. W.  
50.40 Cross same wash 15 lks. wide course S. W.  
63.25 Cross wash 10 lks. wide course S. W.  
69.00 Cross wash 10 lks. wide course S. W.  
74.05 Intersect W. bdy. of Tp. 126 lks. N. of the cor. of secs. 13 and 24, and set a quartzite stone 18 x 10 x 7 ins. 12 ins. in the ground for closing cor. of secs. 18 and 19 marked C C on E. with 3 grooves N. and S. faces; and raise a mound of stone 2 ft. base 1 1/2 ft. high E. of cor. Pits impracticable.  
Land, mountainous.  
Soil, stony; 3rd. rate.  
No timber.  
Undergrowth, paloverde and greasewood.  
Mountainous land and land covered with dense undergrowth  
74.05 chains.

October 12, 1905.

October 13; At 7h. 00m. a.m. l.m.t., I set off 32° 49' N on the lat. arc; 7° 36 1/2'S. on the dec'l. arc; and determine a meridian with the solar at the cor. of secs. 17, 18, 19 and 20.

Thence I run  
N. 0° 03' W. bet. secs. 17 and 18.  
Over rolling mountainous land through dense brush.  
6.40 Cross wash 20 lks. wide course W.  
15.20 Cross wash 20 lks. wide course W.  
18.00 Cross wash 10 lks. wide course W.  
31.50 Cross wash 5 lks. wide course W.  
40.00 Set a quartzite stone 18 x 8 x 8 ins. 12 ins. in the ground for 1/4 sec. cor. marked 1/4 on W. face; and raise a mound of stone 2 ft. base 1 1/2 ft. high W. of cor. Pits impracticable.  
40.75 Cross wash 20 lks. wide course W.  
49.95 Cross wash 8 lks. wide course N. W.  
80.00 Set a sandstone 24 x 12 x 4 ins. 18 ins. in the ground for cor. of secs. 7, 8, 17 and 18 marked with 4 notches on S. and 5 notches on E. edges; and raise a mound of stone 2 ft. base 1 1/2 ft. high W. of cor. Pits impracticable.  
Land, mountainous.  
Soil, stony; 3rd. rate.  
No timber.  
Undergrowth, paloverde and greasewood.  
Mountainous land and land covered with dense undergrowth  
80.00 chains.

chains	
40.00	N. 89° 48' E. on a random line bet. secs. 8 and 17.
80.20	Set temp. $\frac{1}{4}$ sec. cor. Intersect N. and S. line 28 lks. N. of the cor. of secs 8, 9, 16 and 17. Thence I run West bet. secs. 8 and 17. Over rolling mountainous land through dense brush.
18.75	Cross wash 25 lks. wide course N. W.
33.60	Cross wash 10 lks. wide course N. W.
40.10	Set a granite stone 18 x 10 x 6 ins. 12 ins. in the ground for $\frac{1}{4}$ sec. cor. marked $\frac{1}{4}$ on N. face; and raise a mound of stone 2 ft. base, 1 1/2 ft. high N. of cor. Pits impracticable.
43.75	Cross wash 12 lks. wide course N. W.
58.00	Cross wash 8 lks. wide course N. W.
72.70	Cross wash 25 lks. wide course N. W.
76.20	Cross wash 75 lks. wide course N.
80.20	The cor. of secs. 7, 8 17 and 18. Land, mountainous. Soil, stony; 3rd. rate. No timber. Undergrowth, paloverde. Mountainous land and land covered with dense undergrowth 80.20 chains. October 13: At this cor. I set off 7° 43 1/2' S. on the dec'l. arc; and observe the sun on the meridian at noon the resulting lat. is 32° 49 1/2' N. ✓
	West bet. secs. 7 and 18. Over rolling mountainous land through dense brush.
11.20	Cross wash 8 lks. wide course N. W.
24.35	Cross wash 8 lks. wide course N. W.
35.50	Cross wash 12 lks. wide course N. W.
40.00	Set a sandstone 18 x 10 x 4 ins. 12 ins. in the ground for $\frac{1}{4}$ sec. cor. marked $\frac{1}{4}$ on N. face; and raise a mound of stone 2 ft. base 1 1/2 ft. high N. of cor. Pits impracticable.
57.70	Cross wash 8 lks. wide course N. W.
72.20	Cross wash 8 lks. wide course N. W.
74.41	Intersect W. bdy. of Tp. 188 lks. N. of the cor. of secs. 12 and 13, and set a granite stone 18 x 10 x 8 ins. 12 ins. in the ground for closing cor. of secs. 7 and 18 marked C C on E. with 4 grooves on S. and 2 grooves on N. faces; and raise a mound of stone 2 ft. base 1 1/2 ft. high E. of cor. Pits impracticable. Land, mountainous. Soil, sandy and stony; 3rd. rate. No timber. Undergrowth paloverde and greasewood. Mountainous land and land covered with dense undergrowth 74.41 chains. October 13, 1905.
	October 14: At 7h. 00m. a.m. l.m.t., I set off 32° 49 1/2' N. on the 1 at. arc; 7° 59' S. on the dec'l. arc; and determine a meridian with the solar at the cor. of secs. 7, 8, 17 and 18 Thence I run N. 0° 03' W. bet. secs. 7 and 8. Descending over rolling mountainous land through scattering brush.
10.30	Cross wash 25 lks. wide course N. W.
11.25	Cross same wash 25 lks. wide course N. E.
14.00	Cross same wash 25 lks. wide course N. W.
21.00	Cross drain 15 lks. wide course W.
33.30	Cross drain 12 lks. wide course W.
36.85	Cross drain 12 lks. wide course N. W.
<del>39.50</del>	As the 40.00 cha in point will fall on steep bank of wash where it cannot be established securely at
39.50	Set a granite stone 18 x 10 x 4 ins. 12 ins. in the ground for witness $\frac{1}{4}$ sec. cor. marked W C $\frac{1}{4}$ on W. face; and raise a mound of stone 2 ft. base 1 1/2 ft. high W. of cor. Pits impracticable.

Chains.

From this cor. the N. E. cor. of Indian adobe house bears N. 56° W. 24. 53 chs. dist.  
 The S. E. cor. of T. Willis' house bears N. 39 ° 22' W.  
 42.34 Cross wash 10 lks. wide course N. W.  
 59.12 Cross Irrigating ditch 4 lks. wide course W. and over bottom land through dense buck brush.  
 68.15 Cross road bears N. E. and S. W.  
 68.50 A point whence Indian hut bears N. 85° E. 4.10 chs. dist  
 70.90 Cross brush fence bears N. E. and S. W.  
 72.00 Cross irrigating ditch 4 lks. wide course S. W.  
 77.90 Cross brush fence bears N. E. and S. W.  
 79.45 Cross road bears E. and W.  
 80.00 Set a limestone 18 x 12 x 6 ins. 12 ins. in the ground for cor. of secs. 5, 6, 7 and 8 marked with 5 notches on S. and E. edges; and raise a mound of stone 2 ft. base 1 1/2 ft. high W. of cor. Pits impracticable.  
 From this cor. Indian hut bears S. 70° E. 6.58 chs. dist  
 Land, mountainous and level.  
 Soil, sandy and stony; 2nd. and 4th. rate.  
 No timber.  
 Undergrowth, paloverde greasewood and buck brush.  
 Mountainous land and land covered with dense undergrowth  
 80.00 chains.

East on a random line bet. secs. 5 and 8.  
 40.00 Set temp. 1/2 sec. cor.  
 80.16 Intersect N. and S. line 2 lks. N. of the cor. of secs. 4, 5, 8 and 9  
 Thence I run  
 N. 89° 59' W. on a true line bet. secs. 5 and 8.  
 Descending along rough S. slope on mountains through dense brush.  
 3.90 Cross wash 10 lks. wide course S. W.  
 11.15 Cross wash 8 lks. wide course S. W.  
 18.15 Cross wash 20 lks. wide course S.  
 20.10 Cross wash 12 lks. wide course S. E.  
 29.75 Cross wash 5 lks. wide course S.  
 35.90 Cross wash 30 lks. wide course S.  
 40.08 Set a granite stone 18 x 10 x 5 ins. 12 ins. in the ground for 1/4 sec. cor. marked 1/4 on N. face; and raise a mound of stone 2 ft. base 1 1/2 ft. high N. of cor. Pits impracticable.  
 51.00 Over bottom land through dense catclaw and buck brush.  
 56.45 Cross road bears N. W. and S. E.  
 64.65 Cross Arivaipa Creek 30 lks. wide course N. W.  
 67.10 Cross road bears N. E. and S. W. and along same to leave road bears N. W.  
 69.75 Cross fence bears N. W. and S. E.  
 70.65 Cross fence bears N. E. and S. W.  
 75.75 Cross road bears N. E. and S. W.  
 77.35 The cor. of secs. 5, 6, 7 and 8.  
 80.16 Land, mountainous and level.  
 Soil, sandy and stony; 2nd. and 3rd. rate.  
 No timber.  
 Undergrowth, paloverde, catclaw and buck brush.  
 Mountainous land and land covered with dense undergrowth  
 80.16 chains.  
 October 13; At this cor. I set off 7° 44' S. on the dec'l. arc; and observe the sun on the meridian at noon the resulting lat. is 32° 50 1/2' N.

West bet. secs. 6 and 7.  
 Over bottom land through dense catclaw and buck brush.  
 4.50 Cross Arivaipa Creek 20 lks. wide course S. W.  
 17.50 Cross irrigating ditch 4 lks. wide course S. W.  
 25.40 Cross same ditch 4 lks. wide course N. W.  
 28.25 Cross fence bears N. W. and S. E.  
 40.00 Set a granite stone 18 x 12 x 6 ins. 12 ins. in the ground for 1/4 sec. cor. marked 1/4 on N. face; from which  
 A willow 6 ins. diam. bears N. 42 1/2° W. 160 1 lks. dist. marked 1/4 SBT.  
 No other tree available. and raise a mound of stone 2 f

Chains.

ft. base 1 1/2 ft. high N. of cor. Pits impracticable.  
 From this cor. the S. E. cor. of T. Wills' house bears  
 N. 10° 40' E.  
 40.80 Cross road bears N. and S.  
 44.40 Cross irrigating ditch 4 lks. wide course W. W.  
 44.55 Cross wire fence bears N. E. and S. W.  
 74.77 Intersect W. bdy. of Tp. 198 lks. N. W. of the cor. of secs  
 1 and 12. I destroy the pits E. of line at this cor.  
 and at my point of intersection set a granite stone 18  
 x 12 x 6 ins. 12 ins. in the ground for closing cor. of  
 secs. 6 and 7. marked with CC on E. with 5 grooves on  
 S. and 1 groove on N. faces; dig pits 24 x 18 x 12 ins.  
 crosswise on each line, N. and S. 3 ft. and E. of stone  
 7 ft. dist.; and raise a mound of earth 4 ft. base 2 ft.  
 high E. of cor.  
 Land, level.  
 Soil, sandy; 2nd. rate.  
 No timber.  
 Undergrowth, catclaw and buck brush.  
 Land covered with dense undergrowth 74.77 chains.

BOOK 1896

40.00 N. 0° 03' W. bet. secs. 5 and 6. on a random line.  
 78.12 Set temp. 1/4 sec. cor.  
 Intersect N. bdy. of Tp. 7 lks. W. of the cor. of secs  
 5, 6, 31 and 32.  
 Thence I run South bet. secs. 5 and 6.  
 Over rough mountainous land descending through dense  
 brush.  
 2.60 Cross wash 10 lks. wide course S. W.  
 6.60 Cross wash 15 lks. wide course S. W.  
 18.10 Cross wash 30 lks. wide course S. W.  
 38.12 Set a granite stone 18 x 8 x 5 ins. 12 ins. in the  
 ground for 1/4 sec. cor. marked 1/4 on W. face; and raise  
 a mound of stone 2 ft. base 1 1/2 ft. high W. of cor.  
 Pits impracticable.  
 39.60 Cross wash 15 lks. wide course S. W.  
 72.00 Cross fence bears E. and W. and over bottom land.  
 72.15 Cross irrigating ditch 4 lks. wide course W.  
 74.80 Cross Arivaipa Creek 20 lks. wide course W.  
 78.12 The cor. of secs. 5, 6, 7 and 8.  
 Land, mountainous and level.  
 Soil, sandy and stony; 4th. rate.  
 Undergrowth paloverde and buck brush.  
 Mountainous land and land covered with dense undergrowth  
 78.12 chains.

October 13, 1905.

## General Description.

The soil in this Tp. is sandy and stony, and the Tp.  
 is mountainous. The soil of the bottom land along  
 Arivaipa Creek produces fine crops of peaches, apples  
 and berries. There is no timber in the Tp.

The northwestern portion of the Tp. is watered by  
 Arivaipa creek a running stream of pure water.

There are two white ~~and one~~ Indian settlers in sec.  
 4, two Indian settlers in sec. 5, and one white and one  
 Indian settler in sec. 6: *one Indian settler in*  
*of sections 7, 8 + 9.*

*John A. Heister*  
 U. S. Deputy Surveyor.

LIST OF NAMES.

BOOK 1896

A list of the names of the individuals employed by John F. Hesse

....., 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

subdivision lines of Tp. 7 S. Rg. 17 E. and resurvey of the S. & W. Bdys. of Dp. 7 S. R. 17 E.

showing the respective capacities in which they acted:

W. W. Oliver ..... Chainman.

B. M. Hyde ..... Chainman.

..... Moundman.

..... Moundman.

Frank Robertson ..... Axman.

..... Axman.

H. S. Young ..... Flagman.

FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted John F. Hesse

....., United States Deputy Surveyor, in surveying all

those parts or portions of the subdivision lines of Tp. 7 S. Rg. 17 E. and resurvey of the S. & W. Bdys. of Dp. 7 S. R. 17 E.

..... of the Gila and Salt River 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, and the corner monuments established, according to the instructions furnished by the United States Surveyor

General for Arizona

W. W. Oliver ..... Chainman.

B. M. Hyde ..... Chainman.

..... Moundman.

..... Moundman.

Frank Robertson ..... Axman.

..... Axman.

H. S. Young ..... Flagman.

Subscribed and sworn to before me this 13th.

day of October, 1905.



John F. Hesse

U. S. Deputy Surveyor.

No notary available without great expense and loss of time.

BOOK 1896

I, John F. Hesse, United States Deputy Surveyor, do solemnly swear that, in pursuance of a contract received from Frank S. Ingalls, United States Surveyor General for Arizona, bearing date of the 16 th. day of June, 1905, 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 Manual of Surveying Instructions, and the laws of the United States, surveyed all those parts or portions of the subdivision lines of T<sup>7</sup> S. R. 17 E. and resurvey of <sup>the S. & W. 40' p.</sup> T<sup>7</sup> S. R. 17 E.

\_\_\_\_\_ of the Gila and Salt River 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 General for Arizona and in the specific manner described in the field notes, and that the foregoing are the original field notes of such survey.

John F. Hesse  
United States Deputy Surveyor.

Subscribed by said John F. Hesse, and sworn to before me }  
this 24 day of November, 1905

Frank S. Ingalls  
U. S. Surveyor General



APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Phoenix, Arizona, Sept 22, 1906

The foregoing field notes of the survey of the subdivisional lines of T<sup>7</sup> S. R. 17 E. of the Gila and Salt River Base and Meridian territory of Arizona and resurvey of the South and West boundaries of T<sup>7</sup> S. R. 17 E.

executed by John F. Hesse, U. S. deputy surveyor under his contract No. 135, dated June 16, 1905, 1905, having been critically examined, and the necessary corrections and explanations made, the said field notes, and the \_\_\_\_\_ they describe, are hereby approved.

Frank S. Ingalls  
United States Surveyor General.

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.